SITE DATA TABLE	
SUBDIVISION NAME:	VERONA HILLS
SECTION:	16.00
TOWNSHIP:	23 SOUTH
RANGE:	21 EAST
PARCEL KEY:	1357971 & 394585
FUTURE LANDUSE:	OVERLAY DISTRICT 2
ZONING:	PDP (SF)
ZONING APPROVAL:	H-24-65, APPROVED 2/25/2025
FLOODZONE:	ZONE X
FIRM PANEL:	12053C0376D
MIN. PERIMETER SETBACK (INCLUSIVE OF BUFFER):	
EAST (KETTERING RW)	50'
WEST	35'
SOUTH (DASHBACK RW)	35'
NORTH	35'
MINIMUM BUFFER REQUIREMENTS:	
EAST (KETTERING RW)	20'
WEST	20'
SOUTH (DASHBACK RW)	20'
NORTH	20'
SINGLE FAMILY INTERNAL LOT BUILDING SETBACKS:	
FRONT/SIDE (FORNER LOTS)	25'
SIDE	7.5'
REAR	15'
LOT COUNT	
PHASE 1:	177.00
PHASE 2:	125.00
TOTAL LOTS:	302.00
ACREAGE BREAKDOWN	
TOTAL ACREAGE:	110.25
DASHBACK & KETTERING RW DEDICATION:	4.27
TOTAL PROJECT DEVELOPABLE ACREAGE:	**105.98**
SINGLE FAMILY LOTS:	58.56
PRESERVED VEGETATION AT PARK:	**4.74**
PRESERVED VEGETATION IN BUFFERS:	**2.68**
TOTAL PRESERVED VEGETATION:	**7.42**
PRESEVED VEGETATION REQUIRED (7%):	**7.42**
RECREATIONAL SITE PROVIDED:	3.52
RECREATIONAL SITE REQUIRED:	3.52
DRAINAGE:	14.99
RIGHT-OF-WAY:	16.62
OPEN SPACE (NON BUFFER OR PRESERVE):	**4.87**

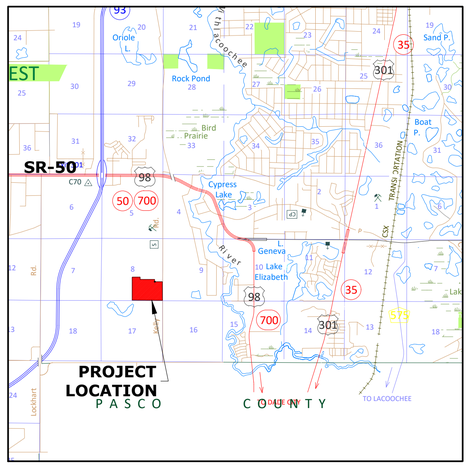
CONSTRUCTION PLANS
for
VERONA HILLS

302 LOT SUBDIVISION

110.3 ACRES ±

HERNANDO COUNTY, FLORIDA
ZONING PDP(SF)
H-24-65, APPROVED 2/25/2025

Project Number 24062



LOCATION MAP
N.T.S.
S/T/R
16/23S/21E

N

PREPARED FOR:

LENNAR HOMES
4301 W. BOY SCOUT BLVD., SUITE 600
TAMPA, FL 33607

PREPARED BY:

Coastal engineering associates, inc.
Engineering
Planning
Surveying
Environmental
Construction Management
966 Candlelight Boulevard - Brooksville - Florida 34601
(352) 796-9423 - Fax (352) 799-8359
EB-0000142

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C-92	SWPPP DETAILS
E0.1	ELECTRICAL LEGEND AND SPECIFICATIONS
E1.0	ELECTRICAL SITE PLAN
E2.0	POWER ONE-LINE DIAGRAM

PLAN REVISIONS

DATE	REVISION NO.	REVISION
02/02/26	1	REVISED PER COUNTY COMMENTS

AGENCY APPROVALS

AGENCY	PERMIT TYPE	PERMIT NO.	EXP. DATE

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY BRIAN M. MALMBERG ON THE DATE ADJACENT TO THE SEAL. SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

BRIAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

Brian M Malmberg
Digitally signed by Brian M Malmberg
Date: 2026.02.02 10:39:25 -05'00'

DESIGN ENGINEER BRIAN M. MALMBERG, P.E., REGISTRATION NO. 59405

PRINTED: 02/02/2026 - 8:59am PRINTED BY: DA PATH: L:\24062\VERONA HILLS\dwg\ENG\Current\24062 - CV.dwg

GENERAL CONSTRUCTION NOTES

1. BENCHMARK DATUM IS NAVD 88. CONVERSION FROM NAVD 88 TO NGVD 29 IS +0.846 FT. BEARINGS ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAVD 83), 2011 ADJUSTMENT.

2. THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION IN ACCORDANCE WITH THE LINES AND GRADES SHOWN ON THE PLANS AND TO TOLERANCES STATED HEREIN OR IN THE SPECIFICATIONS. REFER TO THE BOUNDARY AND TOPOGRAPHIC SURVEY FOR ADDITIONAL INFORMATION ON HORIZONTAL AND VERTICAL CONTROL.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL HORIZONTAL AND VERTICAL CONTROL MARKERS AND PROPERTY CORNERS (MONUMENTS, PIPES, ETC.) FOR THE DURATION OF CONSTRUCTION. MARKERS SHALL BE CONTINUOUSLY FLAGGED AND SHALL BE RESET IMMEDIATELY BY A FLORIDA LICENSED LAND SURVEYOR IF ANY SHOULD BECOME DISTURBED.

4. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF THE PREPARATION OF THESE DRAWINGS AND DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, ETC. AFFECTING HIS WORK PRIOR TO CONSTRUCTION.

5. THE CONTRACTOR SHALL REPLACE ALL PAVING, STABILIZED EARTH, DRIVEWAYS, SIDEWALKS, RETAINING WALLS, ETC. REMOVED OR DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COSTS WITH THE SAME MATERIAL REMOVED OR DAMAGED OR AS DIRECTED BY THE ENGINEER.

6. THE CONTRACTOR SHALL SATISFY HIMSELF AS TO POSSIBLE INCIDENTAL CONFLICTS WITH EXISTING STRUCTURES SUCH AS MAIL BOXES, SIGNS, FENCES, BILLBOARDS, ETC. AND SHALL INCLUDE IN HIS OVERALL COSTS THE REMOVAL AND OR REPLACEMENT AND PROTECTION OF SUCH INCIDENTAL ITEMS.

7. THE CONTRACTOR, PRIOR TO BIDDING THIS WORK, SHALL APPRAISE HIMSELF AS TO ALL ABOVE AND BELOW GROUND FEATURES THAT HE MAY ENCOUNTER DURING CONSTRUCTION AND INCLUDE INTO HIS OVERALL BID ALL COSTS FOR SPECIFIC CONSTRUCTION METHODS AND PROCEDURES THAT NEED TO BE TAKEN TO WORK AROUND SUCH APPURTENANCES.

8. THE CONTRACTOR SHALL CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH ANY SITE WORK WITH WHICH A CONFLICT HAS ARISEN DURING CONSTRUCTION OF ANY IMPROVEMENTS SHOWN ON THESE DRAWINGS.

9. CONSTRUCTION SHALL BE CARRIED OUT "IN THE DRY". THE CONTRACTOR SHALL REVIEW SITE CONDITIONS AND DETERMINE METHODS AND EXTENT OF DEWATERING NECESSARY AND SHALL INCLUDE COSTS OF DEWATERING IN THE BID. NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR CONTROL OF GROUND OR SURFACE WATER OR FOR ADDITIONAL MATERIALS OR REWORK REQUIRED AS A RESULT OF INADEQUATE OR INSUFFICIENT DEWATERING.

10. ALL WORK TO BE PERFORMED FOR THE COMPLETION OF THIS PROJECT SHALL BE CONSTRUCTED ACCORDING TO THE BEST PRACTICES OF THE INDUSTRY AND IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND/OR COUNTY CODES, ORDINANCES, STANDARDS AND PERMIT CONDITIONS. FLORIDA BUILDING CODE (LATEST EDITION) AS APPLICABLE.

MINIMUM REQUIRED AS-BUILTS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING A RECORD SURVEY(S) PREPARED AND SUBMITTED BY A FLORIDA LICENSED PROFESSIONAL SURVEYOR AND MAPPER INCLUDING, BUT NOT LIMITED TO, LOCATION AND FINISHED GRADE ELEVATIONS IN PAVED AND NON-PAVED AREAS SUFFICIENT TO DETERMINE DIRECTION OF SITE DRAINAGE AND ELEVATIONS OF RETENTION/DETENTION AREAS, MITIGATION AREAS AND DITCH/CHANNEL CONVEYANCES INCLUDING TOPS OF BANKS, TOES OF SLOPES, POND BOTTOMS AND WATER LEVELS; ELEVATIONS AND DIMENSIONS OF POND CONTROL STRUCTURES, SPILLWAYS AND UNDERDRAINS; DRAINAGE STRUCTURE GRATE/INLET/RIM ELEVATIONS, STORM PIPE SIZES, PIPE MATERIALS, AND PIPE INVERTS, PLUS LOCATIONS, DIMENSIONS AND ELEVATIONS OF ALL OTHER CONSTRUCTION COMPONENTS WHICH VARY FROM THE DESIGN. UTILITY INFORMATION SHALL INCLUDE LOCATION OF WATER LINE CONNECTIONS, VALVES, BENDS, METERS AND ELEVATIONS OF PIPES WHERE DEPTH OF COVER VARIES FROM DESIGN; TIES TO SANITARY SEWER LINES, MANHOLE RIM AND INVERT ELEVATIONS, CLEANOUTS AND SERVICE CONNECTIONS.
2. STORMWATER AS-BUILT SURVEY TO INCLUDE THE SKIMMER TOP AND BOTTOM ELEVATIONS FOR ALL POND CONTROL STRUCTURES.
3. ALL DIMENSIONS SHALL BE IN FEET DIMENSIONED OFF CENTERLINE OF ROADS OR OTHER PERMANENT STRUCTURES. IF ONLY ONE DIMENSION CAN BE TAKEN OFF THE CENTERLINE OF ROAD, THE SECOND SHALL BE OFF A PERMANENT MARKER OR REFERENCE POINT.
4. DIGITALLY SIGNED AND SEALED AS-BUILT DRAWINGS, ONE (1)CD WITH AUTOCAD AND ADOBE PDF'S OF ALL SHEETS SHALL BE SUBMITTED TO THE ENGINEER UPON COMPLETION OF THE PROJECT.

<u>WATER LINES, FORCE MAINS & RE-USE MAINS</u> (WHEN APPLICABLE)

1. UTILITY PIPING SHALL BE DIMENSIONED OFF CENTERLINES OF PAVEMENT OR OTHER PERMANENT STRUCTURES.
2. FITTINGS, VALVES, HYDRANTS, TAPS, SERVICE TAPS, ETC. SHALL BE DIMENSIONED (SEE NOTE NO. 1 UNDER "GENERAL") USING DESCRIPTIVE NOTE INDICATING THE TYPE OF FEATURE WITH DIMENSIONS TO A PERMANENT SURFACE FEATURE.
3. INDICATE DEPTH OF COVER AT ALL LOCATIONS WHERE PIPING DIFFERS FROM THE CONSTRUCTION PLANS.
4. INDICATE ALL LOCATIONS WHERE MINIMUM VERTICAL AND HORIZONTAL WATER AND SEWER SEPARATION WAS NOT MAINTAINED. DETAIL INSTALLATION METHOD.
5. INDICATE LOCATIONS AND TYPES OF ALL BACTERIOLOGICAL SAMPLING POINTS.
6. SHOW THE SIZE, SDR, CLASS AND TYPE OF MATERIAL IF DIFFERENT THAN PLANS.
7. DIMENSION WATER MAIN STUBS FROM GATE VALVE TO TERMINAL POINT AND FROM CENTERLINE OF ROAD.
8. ALL PRESSURE PIPE LINES (POTABLE, REUSE, FM) TOP OF PIPE SHALL BE LOCATED (X,Y,Z) AT 100-FT STATION INTERVALS AND AT ALL BENDS AND FITTINGS. CONFIRM DEPTH OF SEPARATION BETWEEN WATER, SEWER, RECLAIM AND STORM LINES. DETAIL ANY SERVICES THAT VARY FROM ORIGINAL DESIGN PLANS.

<u>SEWER</u> (WHEN APPLICABLE)

1. SHOW ACTUAL ELEVATIONS (TOP AND ALL INVERTS) FOR ALL NEW AND EXISTING MANHOLES.
2. SHOW ACTUAL GRAVITY SEWER SLOPE PERCENTAGES.
3. INDICATE ALL LOCATIONS WHERE SEWER LINE WAS ENCASED OR WHERE DUCTILE IRON WAS UTILIZED.
4. SHOW SIZE, SDR, CLASS OR TYPE OF MATERIAL IF DIFFERENT THAN PLANS.
3. SHOW LOCATIONS OF ALL SERVICE WYES BY DIMENSION FROM MANHOLES.
4. DIMENSION SERVICE LATERAL TERMINATION POINTS AND DEPTH FROM FINISH GRADE.
5. FITTINGS, VALVES, TAPS, ETC. SHALL BE DIMENSIONED (SEE NOTE NO. 1 UNDER "GENERAL") USING DESCRIPTIVE NOTES INDICATING THEIR EXACT LOCATION.

<u>PUMP STATIONS</u> (WHEN APPLICABLE)

1. SHOW BOTTOM, INFLUENT INVERT AND TOP ELEVATIONS OF WETWELL.
2. ACTUAL ELEVATIONS OF BOTTOM OF CONTROL PANEL.
3. ELEVATIONS OF LIQUID LEVEL SENSORS FOR PUMP OFF, FIRST AND SECOND PUMPS ON (THIRD IF PROVIDED), AND ALARM ON.
4. SHOW ALL WETWELL AND VALVE VAULT PIPING AND VALVE CHANGES.
5. LOCATE HORIZONTALLY AND VERTICALLY ALL CONCRETE PADS, WET WELL, VALVE BOX, GENERATOR, CONTROL PANEL, TELEMETRY, ODOR CONTROL AND ANY OTHER FEATURE WITHIN THE FENCED LIFT STATION AREA.

NOTE: PROJECT SHALL NOT BE CERTIFIED COMPLETE BY THE ENGINEER WITHOUT RECEIPT OF ACCEPTABLE AS-BUILT INFORMATION AND ALL SPECIFIED TEST RESULTS.

UTILITY SEPARATION NOTES

1. REFER TO FAC 62-555.314 FOR UTILITY SEPARATION REQUIREMENTS. A SUMMARY OF THESE REQUIREMENTS ARE PROVIDED IN PICTORIAL FORM IN HCUD DETAIL G-06 PROVIDED IN THE DETAILS SECTION OF THIS PLAN SET.

NOTE: WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL AND VERTICAL SEPARATIONS AS STIPULATED IN FAC 62-555.314, THE REVIEWING AUTHORITY MAY ALLOW DEVIATION ON A CASE-BY-CASE BASIS IF SUPPORTED BY DATA FROM THE DESIGN ENGINEER. APPROVAL FOR THE DEVIATION MUST BE OBTAINED PRIOR TO CONSTRUCTION.

GENERAL UTILITY NOTES

1. ALL UTILITY CONSTRUCTION SHALL MEET OR EXCEED HERNANDO COUNTY STANDARDS FOR WATER AND WASTEWATER CONSTRUCTION.

2. NO CONNECTION TO THE EXISTING UTILITY LINES SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE HERNANDO COUNTY UTILITIES DEPARTMENT.

3. ALL WATER MAINS SHALL HAVE A MINIMUM OF 36" COVER, UNLESS SPECIFIED OTHERWISE. FORCE MAINS SHALL HAVE A MINIMUM OF 48" COVER.

4. ALL UTILITY LINES SHALL HAVE AN "EARLY WARNING" PROTECTION TAPE INSTALLED CONTINUOUSLY ALONG THE PIPE ALIGNMENT IN ACCORDANCE WITH THE UTILITY HAVING JURISDICTION. THE PROTECTION TAPE SHALL BE INSTALLED DURING BACK FILING 18" DIRECTLY OVER THE PIPE, OR AS SPECIFIED BY UTILITY OWNER. THE TAPE SHALL HAVE A METAL DETECTABLE STRIP SANDWICHED BETWEEN 2 LAYERS OF POLYETHYLENE. FOR WATER LINES, THE TAPE SHALL BE CONTINUOUSLY MARKED "CAUTION, WATER LINES BELOW". FOR FORCE MAINS, THE TAPE SHALL BE CONTINUOUSLY MARKED "CAUTION, SEWAGE FORCE MAIN BELOW". FOR SANITARY SEWER, THE TAPE SHALL BE CONTINUOUSLY MARKED "CAUTION, SEWER MAIN BELOW". BOTH WATER MAINS AND SANITARY SEWER FORCE MAINS SHALL ALSO HAVE A "LOCATOR DETECTOR WIRE" - UL TYPE AWG #10 SOLID STRAND COPPER WIRE W/60MM PVC WALL INSTALLED ALONG THE ENTIRE LENGTH OF PIPE.

5. THE CONTRACTOR IS CAUTIONED THAT THE LOCATION OF EXISTING UTILITIES, WHEN SHOWN, ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ACTUAL FIELD LOCATIONS FROM THE RESPECTIVE UTILITY COMPANY AND TO COORDINATE WITH AFFECTED UTILITY COMPANY 48 HOURS BEFORE BEGINNING ANY WORK.

AT & T TELEPHONE	*1-800-472-4700*
BRIGHTHOUSE CABLE TV	*1-800-892-3499*
WREC	*1-352-567-5133*
HERNANDO COUNTY UTILITIES DEPT	*1-352-754-4037*
SUNSHINE 811	*1-800-432-4770*
TECO	*1-813-228-1626*
VERIZON	*1-800-483-4000*

6. ALL PVC FORCE MAINS 4-12" SHALL BE AWWA C-900, DR 18 PVC WITH AWWA APPROVED DUCTILE IRON MECHANICAL JOINT FITTINGS AND SHALL BE GREEN PIPE (WHITE OR BLACK LETTERING).

7. ALL PVC WATER MAINS 4-12" SHALL BE AWWA C-900, DR 18 PVC WITH AWWA APPROVED DUCTILE IRON MECHANICAL JOINT FITTINGS AND SHALL BE BLUE (WHITE OR BLACK LETTERING).

8. SANITARY SEWER (GRAVITY) PIPE SHALL CONFORM TO ASTM 3034 FOR SDR26 PVC BELL AND SPIGOT GASKETED JOINTS.

9. ADDITIONAL REQUIREMENTS FOR PVC, DUCTILE IRON AND HDPE PIPING ARE CONTAINED IN THE CONTRACT DOCUMENTS AND TECHNICAL SPECIFICATIONS FOR THIS PROJECT.

10. ALL PVC PIPE SHALL HAVE LETTERING APPEARING ON THREE SIDES OF THE PIPE, SHALL RUN THE ENTIRE LENGTH OF THE PIPE AND SHALL BE 3/4" IN HEIGHT WITH THE APPROXIMATE WORDING APPEARING ONE OR MORE TIMES EVERY 21 INCHES ALONG THE LENGTH OF THE PIPE. THE LETTERING MUST BE PERMANENTLY STENCILED TO THE PIPE SURFACE. LETTERING SHALL READ AS IS ACCEPTABLE FOR THE INTENDED USE. ALL LETTERING SHALL BE APPLIED BY THE PIPE MFG. DURING PRODUCTION.

11. THE CONTRACTOR SHALL PERFORM LEAK TESTING ON ALL GRAVITY SEWERS AND A PRESSURE TEST ON ALL WATER AND FORCE MAINS (AS APPLICABLE) IN ACCORDANCE WITH THE UTILITY HAVING JURISDICTION AND/OR AS STATED IN THE SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER. TESTS ARE TO BE CERTIFIED BY THE ENGINEER OF RECORD. THE SCHEDULING, COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTOR'S RESPONSIBILITY.

12. WATER AND WASTEWATER SYSTEMS SHALL NOT BE PLACED IN SERVICE (FOR TEMPORARY OR PERMANENT USE) UNTIL ALL TESTING AND INSPECTIONS HAVE BEEN COMPLETED, TEST REPORTS AND "AS-BUILTS" FOR THOSE SYSTEMS SUBMITTED, AND CLEARANCE HAS BEEN OBTAINED FROM THE APPLICABLE UTILITIES AND PERMITTING AGENCIES. NO WATER SYSTEM SHALL BE PLACED IN SERVICE BEFORE SEWER SYSTEM HAS BEEN CLEARED FOR USE.

13. DISINFECTION AND BACTERIOLOGICAL TESTING OF ALL WATER LINES SHALL BE PERFORMED IN ACCORDANCE WITH FDEP REGULATION 62-555.340.

14. DEFLECTION TESTING FOR GRAVITY SEWER LINES SHALL BE PERFORMED IN ACCORDANCE WITH "RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES (10 STATE STANDARDS)", CURRENT EDITION.

15. TESTING OF SUBAQUEOUS LINES SHALL COMPLY WITH FAC 62-604.400(2).

16. THE CONTRACTOR SHALL COMPLY WITH LOCAL CROSS-CONNECTION CONTROL POLICY FOR CONSTRUCTION OF ALL POTABLE, SANITARY AND RECLAIMED UTILITIES.

17. CONTRACTOR TO PROVIDE THRUST BLOCKING AND/OR JOINT RESTRAINTS TO FULLY RESTRAIN PRESSURE PIPES AGAINST FAILURE UP TO A TEST PRESSURE OF 150 psi. CONTRACTOR SHALL PROVIDE A RESTRAINING PLAN FOR THE ENGINEER'S REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

18. WARNING SIGNS SHALL BE INSTALLED AT ANY SURFACE WATER CROSSING IN ACCORDANCE WITH FAC 62-604.400(2)(k)2

19. ALL UTILITY CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DOCUMENTS REFERENCED HEREIN. ANY METHODS, PROCEDURES, STANDARDS, EQUIPMENT, OR MATERIALS WHICH ARE NOT COVERED OR SPECIFIED BY THE APPLICABLE PROVISIONS OF COUNTY SPECIFICATIONS SHALL BE CONSTRUCTED TO BE IN ACCORDANCE WITH THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND F.D.O.T. UTILITIES ACCOMMODATION GUIDE UNLESS SPECIFICALLY APPROVED BY THE ENGINEER OF RECORD. IN THE CASE OF CONFLICTING SPECIFICATIONS, THE MOST STRINGENT SHALL APPLY.

20. ALL UTILITIES SHALL BE KEPT IN OPERATION EXCEPT WITH THE EXPRESS WRITTEN CONSENT OF THE UTILITY OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PRESERVE EXISTING UTILITIES. ANY AND ALL DAMAGE TO EXISTING UTILITIES AS A RESULT OF THE CONTRACTOR'S ACTIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

21. WHERE WATER AND SEWER LINE INSTALLATION ARE IN CONFLICT WITH EXISTING UTILITY POLES, GUY WIRES OR SIMILAR STRUCTURES, THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY TO DETERMINE WHETHER THE STRUCTURES WILL REQUIRE RESTRAINT. THE FINAL DECISION AS TO WHETHER RESTRAINT IS REQUIRED WHILE EXCAVATION OCCURS SHALL BE THAT OF THE UTILITY OWNER. THE COST FOR THIS COORDINATION AND RESTRAINT SHALL BE INCLUDED IN THE CONTRACTOR'S OVERALL COSTS.

22. CONTRACTOR SHALL PROVIDE TEMPORARY CONNECTIONS AS NECESSARY FOR FLUSHING, DECONTAMINATION AND PRESSURE TESTING.

23. RPZ-BPA ON WATER SERVICE LINES TO BE TESTED AND APPROVED BY HCUD. TO BE INSTALLED PER HCUD DETAIL W-01 AND TESTED BY A LICENSED PLUMBER WITH TEST RESULTS PROVIDED TO HCUD'S BPA INSPECTOR. CONTACT INSPECTOR AT (352) 540-4368 EXT. 35613.

24. ALL DEFLECTION BENDS ARE 45° UNLESS SPECIFIED OTHERWISE. EXACT LOCATION OF BENDS TO BE DETERMINED IN FIELD AND APPROVED BY FIELD INSPECTOR. LOCATION DATA SHALL BE PROVIDED IN AS-BUILTS ACCORDING TO COUNTY REQUIREMENTS.

SPECIAL NOTES TO CONTRACTORS

1. WHERE TREE REMOVAL IS REQUIRED DUE TO CONSTRUCTION, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND DISPOSE OF THOSE TREES. THE COST FOR THIS REMOVAL AND DISPOSAL SHALL BE INCLUDED IN THE CONTRACTOR'S OVERALL COSTS. TREE REMOVAL AND PROTECTION SHALL COMPLY WITH APPLICABLE CITY AND COUNTY CODES.

2. UNLESS SPECIFIED OTHERWISE, CONTRACTOR SHALL FURNISH AND INSTALL ALL PROPOSED ITEMS SHOWN WITHIN THE CONSTRUCTION PLANS.

3. CONSTRUCTION EQUIPMENT AND MATERIAL TRANSPORT / STAGING IS THE RESPONSIBILITY OF THE CONTRACTOR. UPON REQUEST, THE OWNER WILL PROVIDE ACCESS TO THE CLOSEST OPEN SPACE OWNED AND AVAILABLE FOR THE CONTRACTOR'S USE; HOWEVER, THE SITE MAY NOT BE CONTIGUOUS TO THE PROJECT AREA OR OF SUFFICIENT SIZE TO ACCOMMODATE THE ENTIRE PROJECT INVENTORY OF MATERIALS / EQUIPMENT.

4. CONTRACTOR SHALL PROVIDE ADDITIONAL COMPACTION TESTING IN ACCORDANCE WITH "HERNANDO COUNTY FACILITY DESIGN GUIDELINES", LATEST EDITION, ON ANY PIPE TRENCH WITHIN 7' OF COUNTY OR CITY ROADWAY PAVEMENT.

5. A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT IS NOT PART OF THE PERMITTING OBTAINED WITH THIS PLAN SET. THEREFORE, THE CONTRACTOR IS ADVISED THAT AN NPDES CONSTRUCTION PERMIT MAY BE REQUIRED FOR THIS PROJECT AND THAT THE CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND ADHERING TO THIS PERMIT. REFER TO SUBSECTION 62-621., F.A.C. FOR ADDITIONAL INFORMATION. THE INFORMATION PROVIDED IN THE SWPPP NOTES AND DETAILS SHEETS ARE FOR COMPLIANCE WITH ENVIRONMENTAL RESOURCE PERMITTING UNDER CHAPTER 62-333, F.A.C. AND MAY BE USED AS A REFERENCE FOR COMPLIANCE WITH NPDES PERMITTING BUT ARE NOT NECESSARILY INCLUSIVE OF ALL NPDES REQUIREMENTS.

6. HERNANDO COUNTY HAS AN NPDES ORDINANCE REQUIRING COMPLIANCE ON ALL CONSTRUCTION SITES. (CH. 28, ARTICLE X, SEC. 28-341 TO 403)

7. A GEOTECHNICAL REPORT WAS PERFORMED BY HANECKI CONSULTING ENGINEERS, INC. FINDINGS OF THEIR SUBSURFACE INVESTIGATION AND RECOMMENDATIONS ARE PROVIDED IN THEIR REPORT DATED APRIL 4, 2025. THE REPORT AND THE RECOMMENDATIONS ARE PART OF THE CONTRACT DOCUMENTS. CONTRACTOR TO READ AND FOLLOW THESE REPORTS. INCLUDING, BUT NOT LIMITED TO, RETAINING A GEOTECHNICAL ENGINEER TO PROVIDE OBSERVATION AND TESTING OF RELATED CONSTRUCTION ACTIVITIES.

8. THE CONSULTANT, COASTAL ENGINEERING ASSOCIATES, INC., ASSUMES NO LIABILITY OR RESPONSIBILITY FOR THE GEOTECHNICAL RESULTS SHOWN ON THESE PLANS. A FULL REPORT IS AVAILABLE FROM THE ENGINEER.

9. CONTRACTOR TO SCHEDULE A PRE-CONSTRUCTION MEETING FIVE (5) BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR MUST PROVIDE AL RIGHT OF WAY SUBMITTALS TO DEPARTMENT OF PUBLIC WORKS INSPECTOR FOR REVIEW AND APPROVAL A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. A DEPARTMENT OF PUBLIC WORKS INSPECTOR MUST ATTEND PRE-CONSTRUCTION MEETING. CONTACT DEPARTMENT OF PUBLIC WORKS INSPECTOR AT 352-754-4060 OR EMAIL TO DPWRESOURCEOBJECT@HERNANDOCOUNTY.US.

10. HERNANDO COUNTY OWNED INFRASTRUCTURE CURRENT OR FUTURE; DEPARTMENT OF PUBLIC WORKS INSPECTOR MUST BE PRESENT TO PHYSICALLY VERIFY THE INSTALLATION OF ALL PIPE FITTINGS, BASE LAYERS, ASPHALT, CONCRETE, ETC., HAS BEEN DONE AS PER PLA BEFORE BURYING. HOURS OF INSPECTIONS SHALL BE BETWEEN 8AM AND 4PM. IF DPW HAS NOT INSPECTED PRIOR TO BURYING THE CONTRACTOR WILL BE RESPONSIBLE FOR UNCOVERING FOR INSPECTION. CONTACT DPW INSPECTORS AT 352-754-4060 OR EMAIL DPWRESOURCEOBJECT@HERNANDOCOUNTY.US.

ENVIRONMENTAL PROTECTION NOTES

1. CONSTRUCTION EQUIPMENT SHALL NOT BE OPERATED IN WETLAND AREAS UNLESS SUCH CONSTRUCTION PRACTICES ARE APPROVED IN A PLAN OF OPERATION SUBMITTED TO THE ENGINEER & THE APPROPRIATE REGULATORY AUTHORITIES. WHERE CONSTRUCTION IS NECESSARY ACROSS OR ADJACENT TO WETLAND JURISDICTIONAL AREAS, SILT BARRIERS SHALL BE INSTALLED AS SHOWN ON THE PLANS. SILT BARRIERS SHALL BE CONSIDERED LIMITS OF CONSTRUCTION WITHIN OR ADJACENT TO JURISDICTIONAL AREAS.

2. CONSTRUCTION SHALL PROCEED SUCH THAT ALL STORMWATER FACILITIES WITHIN A WATERSHED AREA ARE IN PLACE AND OPERATIONAL PRIOR TO CONSTRUCTION OF IMPERVIOUS SURFACES WITHIN THAT AREA.

3. STAKED OR FLOATING SILT SCREENS OR SYNTHETIC HAY BALES, AS APPROPRIATE, SHALL BE UTILIZED AS SILT BARRIERS AND PLACED IN LOCATIONS SHOWN ON THE PLANS AND AT OTHER LOCATIONS AS REQUIRED TO KEEP SEDIMENT FROM REACHING WATER BODIES OR WETLAND AREAS. ONCE CONSTRUCTION IS COMPLETE AND FINISH GRADING / STABILIZATION HAS BEEN ACHIEVED, SILT BARRIERS SHALL BE COMPLETELY REMOVED TO THE SATISFACTION OF THE OWNER AND PRIOR TO FINAL ACCEPTANCE.

4. ALL FUGITIVE DUST SHALL BE CONTROLLED ON SITE. ONLY AREAS SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL BE CLEARED OR STRIPPED OF VEGETATION. WATERING OR OTHER PRIOR APPROVED MEANS OF DUST CONTROL SHALL BE EMPLOYED TO PREVENT THE EMANATION OF DUST FROM THE SITE. PERMANENT GRASSING, LANDSCAPING AND OTHER SITE WORK SHALL BE INITIATED AS SOON AS POSSIBLE.

5. ALL WATER COLLECTED AND PUMPED DURING TRENCH DEWATERING ACTIVITIES SHALL BE DISPOSED OF IN UPLAND AREAS INTO DOUBLE STAKED HAY BALES. DISCHARGE LOCATIONS SHALL BE A MINIMUM OF 75 FEET FROM THE NEAREST SURFACE WATER BODY OR WETLAND AREA, TO ALLOW FOR MAXIMUM OVERLAND FILTRATION OF SOIL PARTICLES.

6. TEMPORARY STOCKPILES SHALL NOT BE LOCATED ADJACENT TO UNDISTURBED WETLANDS. ADDITIONALLY, STOCKPILES TO REMAIN FOR LONGER THAN 24 HOURS SHALL BE CONFINED BY SILT BARRIERS WHICH PREVENT RUNOFF SEDIMENTATION FROM ENCROACHING UPON WETLAND AREAS OR SURFACE WATER BODIES. STOCKPILES IN PLACE AND UNTOUCHED FOR 7 DAYS OR MORE TO HAVE VEGETATIVE COVER TO PREVENT WIND EROSION AND SEDIMENT DISPERSAL.

7. ALL TRASH AND CONSTRUCTION DEBRIS PRODUCED FROM THIS PROJECT SHALL BE COLLECTED BY THE CONTRACTOR DAILY. THESE MATERIALS SHALL BE STAGED OR CONTAINERIZED AS NECESSARY TO PREVENT ACCIDENTAL RELEASE. DISPOSAL OF SOLID WASTE MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE MUNICIPAL, COUNTY AND STATE REGULATIONS.

8. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND MAINTAINING PORTABLE SANITARY WASTE UNITS ON-SITE FOR USE BY HIS EMPLOYEES DURING CONSTRUCTION.

9. THE CONTRACTOR SHALL MAINTAIN CONTROL OF ANY HAZARDOUS MATERIALS UTILIZED ON-SITE FOR CONSTRUCTION. STORAGE CONTAINERS, VEHICLES, ETC. WILL BE INSPECTED REGULARLY FOR LEAKAGE. A SPILL PREVENTION PLAN SHALL BE ESTABLISHED WHICH COVERS CLEANUP AND NOTIFICATION OF APPROPRIATE GOVERNMENT AGENCIES.

10. CONTRACTOR SHALL NOT REMOVE TREES WITHOUT APPROVAL OF THE LOCAL GOVERNING JURISDICTION. TREE PROTECTION SHALL BE IN ACCORDANCE WITH LOCAL GOVERNING AUTHORITY.

11. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING SITE EROSION AND SHALL NOT UNNECESSARILY REMOVE EXISTING VEGETATION OR ALTER EXISTING TOPOGRAPHY. THE CONTRACTOR SHALL PROVIDE ADDITIONAL SOD, SYNTHETIC HAY BALES, SAND BAGS OR SEED & MULCH, AS NECESSARY, TO ACHIEVE AN EROSION-FREE SITE (FREE FROM RUTTING, ETC.) TO THE LINES AND GRADES SHOWN IN THE PLANS UNTIL FINAL ACCEPTANCE. ALL SWALES AND SURFACES 4:1 OR STEEPER SHALL BE SODDED. ALL OTHER UNPAVED SURFACES WHICH EXPERIENCE UNDUE EROSION THAT CANNOT BE CONTROLLED BY OTHER MEASURES SHALL BE SODDED. ALL SOD SHALL BE ARGENTINE BAHIA UNLESS SPECIFICALLY SHOWN OTHERWISE IN THE CONTRACT DOCUMENTS. ALL SODDED SLOPES OVER 4:1, SHALL BE INSTALLED WITH SOD PEGS.

12. SOIL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE INSTALLED PRIOR TO CONSTRUCTION, MAINTAINED THROUGHOUT CONSTRUCTION AND UNTIL THE SITE IS PERMANENTLY STABILIZED. SEE SWPP / CSWMP NOTES AND DETAIL SHEETS FOR ADDITIONAL INFORMATION.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF TEMPORARY SEDIMENT/EROSION CONTROL DEVICES WHEN NO LONGER NEEDED.

HERNANDO COUNTY DPW NOTES

1. A RIGHT OF WAY USE PERMIT IS REQUIRED FOR ANY WORK IN COUNTY RIGHT OF WAY. APPROVED CONSTRUCTION PLANS AND MOT (MAINTENANCE OF TRAFFIC) PLAN ARE REQUIRED TO APPLY FOR PERMIT.

2. CONTRACTOR TO SCHEDULE A PRE-CONSTRUCTION MEETING FIVE (5) BUSINESS DAYS PRIOR TO THE START OF CONSTRUCTION. CONTRACTOR MUST PROVIDE ALL RIGHT OF WAY SUBMITTALS TO DPW INSPECTOR FOR REVIEW AND APPROVAL A MINIMUM OF THREE (3) BUSINESS DAYS PRIOR TO PRE-CONSTRUCTION MEETING. DPW INSPECTOR MUST ATTEND THE PRE-CONSTRUCTION MEETING.

3. CONTRACTOR TO NOTIFY DPW INSPECTOR 48 HOURS PRIOR TO CONSTRUCTION IN THE COUNTY RIGHT OF WAY. DPW INSPECTOR MUST BE PRESENT FOR ALL PAVING /POURING ON COUNTY OWNED INFRASTRUCTURE. (CONTACT DPW INSPECTORS AT 352-754-4060 OR EMAIL TO DPWResourceobject@Hernandocounty.us)

4. CONTRACTOR SHALL PROVIDE 24 HOUR NOTICE TO LOCAL EMERGENCY SERVICES DEPARTMENTS WHENEVER CONSTRUCTION ACTIVITIES ARE EXPECTED TO IMPEDE NORMAL TRAFFIC FLOW.

TECHNICAL SPECIFICATIONS

ALL SITE AND UTILITY WORK PERFORMED ON THIS PROJECT SHALL BE GOVERNED BY THE APPLICABLE PROVISIONS OF THE HERNANDO COUNTY. IN ADDITION, THE FOLLOWING STANDARDS ARE INCORPORATED BY REFERENCE:

1. STANDARD FOR DESIGN AND CONSTRUCTION OF WATER, WASTEWATER, AND RECLAIMED WATER FACILITIES FOR HERNANDO COUNTY, LATEST EDITION.
2. FLORIDA DEPARTMENT OF TRANSPORTATION "ROADWAY AND TRAFFIC DESIGN STANDARDS", LATEST EDITION.
3. FLORIDA DEPT. OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION.
4. MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
5. HERNANDO COUNTY DEPARTMENT OF PUBLIC WORKS / ENGINEERING FACILITY DESIGN GUIDELINES, LATEST EDITION.
6. FLORIDA DEPARTMENT OF TRANSPORTATION "UTILITY ACCOMMODATION MANUAL", LATEST EDITION.

MAINTENANCE OF TRAFFIC

1. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MAINTENANCE OF TRAFFIC, INCLUDING SIGNAGE AND BARRICADES AS NEEDED IN ACCORDANCE WITH APPLICABLE PERMITS AND HERNANDO COUNTY PUBLIC WORKS DEPARTMENT.
2. MOT WITHIN FDOT RIGHT OF WAY AND SURROUNDING COUNTY STREETS SHALL CONFORM TO THE FDOT STANDARD INDEX 102 SERIES AS APPROPRIATE.
3. CONTRACTOR SHALL PROVIDE 24 HOURS NOTICE TO LOCAL EMERGENCY SERVICES DEPARTMENT(S) WHENEVER CONSTRUCTION ACTIVITIES ARE EXPECTED TO IMPEDE NORMAL TRAFFIC FLOW.
4. THE CONTRACTOR SHALL SUBMIT MAINTENANCE OF TRAFFIC PLANS TO APPROPRIATE REGULATORY AGENCIES HAVING JURISDICTION OVER IMPACTED ROADWAYS. CONSTRUCTION SHALL NOT COMMENCE WITHIN ROW UNTIL MOT APPROVALS FOR IMPACTED ROAD ARE RECEIVED.

EASTERN INDIGO SNAKE

IF YOU SEE A LIVE EASTERN INDIGO SNAKE ON THE SITE:

- CEASE CLEARING ACTIVITIES AND ALLOW THE LIVE EASTERN INDIGO SNAKE SUFFICIENT TIME TO MOVE AWAY FROM THE SITE WITHOUT INTERFERENCE;
- PERSONNEL MUST NOT ATTEMPT TO TOUCH OR HANDLE SNAKE DUE TO PROTECTED STATUS.
- TAKE PHOTOGRAPHS OF THE SNAKE, IF POSSIBLE, FOR IDENTIFICATION AND DOCUMENTATION PURPOSES.
- IMMEDIATELY NOTIFY SUPERVISOR OR THE APPLICANT'S DESIGNATED AGENT, AND THE APPROPRIATE USFWS OFFICE, WITH THE LOCATION INFORMATION AND CONDITION OF THE SNAKE.
- IF THE SNAKE IS LOCATED IN A VICINITY WHERE CONTINUATION OF THE CLEARING OR CONSTRUCTION ACTIVITIES WILL CAUSE HARM TO THE SNAKE, THE ACTIVITIES MUST HALT UNTIL SUCH TIME THAT A REPRESENTATIVE OF THE USFWS RETURNS THE CALL (WITHIN ONE DAY) WITH FURTHER GUIDANCE AS TO WHEN ACTIVITIES MAY RESUME.

<u>IF YOU SEE A DEAD EASTERN INDIGO SNAKE ON THE SITE:</u>

- CEASE CLEARING ACTIVITIES AND IMMEDIATELY NOTIFY SUPERVISOR OR THE APPLICANT'S DESIGNATED AGENT, AND THE APPROPRIATE USFWS OFFICE, WITH THE LOCATION INFORMATION AND CONDITION OF THE SNAKE.
- TAKE PHOTOGRAPHS OF THE SNAKE, IF POSSIBLE, FOR IDENTIFICATION AND DOCUMENTATION PURPOSES.
- THOROUGHLY SOAK THE DEAD SNAKE IN WATER AND THEN FREEZE THE SPECIMEN. THE APPROPRIATE WILDLIFE AGENCY WILL RETRIEVE THE DEAD SNAKE. TELEPHONE NUMBERS OF USFWS FLORIDA FIELD OFFICES TO BE CONTACTED IF A LIVE OR DEAD EASTERN INDIGO SNAKE IS ENCOUNTERED: NORTH FLORIDA FIELD OFFICE -(904) 731-3336 PANAMA CITY FIELD OFFICE -(850) 769-0552 SOUTH FLORIDA FIELD OFFICE -(772) 562-3909

<u>DURING CONSTRUCTION ACTIVITIES</u>

1. DURING INITIAL SITE CLEARING ACTIVITIES, AN ONSITE OBSERVER MAY BE UTILIZED TO DETERMINE WHETHER HABITAT CONDITIONS SUGGEST A REASONABLE PROBABILITY OF AN EASTERN INDIGO SNAKE SIGHTING (EXAMPLE: DISCOVERY OF SNAKE SHEDS, TRACKS, LOTS OF REFUGIA AND CAVITIES PRESENT IN THE AREA OF CLEARING ACTIVITIES, AND PRESENCE OF GOPHER TORTOISES AND BURROWS).
2. IF AN EASTERN INDIGO SNAKE IS DISCOVERED DURING GOPHER TORTOISE RELOCATION ACTIVITIES (I.E. BURROW EXCAVATION), THE USFWS SHALL BE CONTACTED WITHIN ONE BUSINESS DAY TO OBTAIN FURTHER GUIDANCE WHICH MAY RESULT IN FURTHER PROJECT CONSULTATION.
3. PERIODICALLY DURING CONSTRUCTION ACTIVITIES, THE APPLICANT'S DESIGNATED AGENT SHOULD VISIT THE PROJECT AREA TO OBSERVE THE CONDITION OF THE POSTERS AND PLAN MATERIALS, AND REPLACE THEM AS NEEDED. CONSTRUCTION PERSONNEL SHOULD BE REMINDED OF THE INSTRUCTIONS (ABOVE) AS TO WHAT IS EXPECTED IF ANY EASTERN INDIGO SNAKES ARE SEEN.

Always call 811 two full business days before you dig

Sunshine811.com

GENERAL NOTES

VERONA HILLS

DRAWING INVALID UNLESS SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL

BRIAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

BRIAN M. MALMBERG, P.E., FL. REG. NO. 59405

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THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY BRIAN M. MALMBERG ON THE DATE ADJACENT TO THE SEAL. SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Coastal engineering associates, inc.
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Planning
Surveying
Environmental
Transportation
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(352) 796-9423 - Fax (352) 799-8359
EB-0000142

DATE	REV. BY	REV. NO.	REVISION
02/02/26	DG	1	REVISED PER COUNTY COMMENTS

WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET C-02

JOB No.: 24062

02/02/2026 - 8:59am L:\24062\VERONA HILLS\dwg\ENG\Current\24062 - LG.dwg

C1 = SEE CURVE TABLE
L1 = SEE LINE TABLE
(C) = CALCULATED
(P) = PLAT OR MAP
(M) = FIELD MEASURED
(R) = RECORD or DEED
FIP = FOUND IRON PIN NO ID
FIPC = FOUND IRON PIN AND CAP
SIPC = SET IRON PIN AND CAP
FN&D = FOUND NAIL AND DISK
FCM = FOUND CONCRETE MONUMENT

CONC = CONCRETE
C.L.F. = CHAIN LINK FENCE
B.W.F. = BARBED WIRE FENCE
H.W.F. = HOG WIRE FIELD FENCE
SW = SIDEWALK
OHP = OVERHEAD POWER
ELEC = ELECTRIC
EP = EDGE OF PAVEMENT
O.R. = OFFICIAL RECORD
P.B. = PLAT BOOK
R/W = RIGHT-OF-WAY

SEC = SECTION
MES = MITERED END SECTION
RCP = REINFORCED CONCRETE PIPE
TOB = TOP OF BANK
TOE = TOE OF SLOPE
POB = POINT OF BEGINNING
POC = POINT OF COMMENCEMENT
PCP = Permanent Control Point
PRM = Permanent Reference Monument
(100.0') = EXISTING ELEVATION
= SIGN

= FIRE HYDRANT
= UTILITY POLE
= LIGHT POLE
= UTILITY GATE VALVE
= TELEPHONE SERVICE RISER
= ELECTRIC TRANSFORMER
= FIBER OPTIC BOX
= WATER METER
= SANITARY MANHOLE
= UTILITY SPLICE BOX

= CATV MARKER
= FOUND IRON PIN & CAP (AS SHOWN)
= SET IRON PIN AND CAP (5/8"IR LB #7200)
= FOUND NAIL AND DISK (AS SHOWN)
= FOUND CONCRETE MONUMENT (AS SHOWN)
= DESCRIPTIVE POINT

SURVEY NOTES:

1. BEARINGS SHOWN HEREON BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83), 2011 ADJUSTMENT. ESTABLISHING AN ASSUMED BEARING OF N00°19'43"W ALONG THE EAST LINE OF THE SOUTHEAST 1/4 OF SECTION 08-23-21. BEARINGS SHOWN HEREON ARE GRID BEARINGS.
2. DESCRIPTION AS SHOWN HEREON WAS PROVIDED.
3. BASIS FOR SURVEY IS DESCRIPTION, RECORD PLAT, AND MONUMENTATION FOUND IN PLACE.
4. NO UNDERGROUND IMPROVEMENTS OR UTILITIES HAVE BEEN LOCATED EXCEPT AS NOTED. THE HORIZONTAL LOCATION OF UNDERGROUND IMPROVEMENTS IS BASED ON THE FLAGGED LOCATION PROVIDED BY THE CONTRACTOR. SOFT DIGS TO CONFIRM SAID LOCATIONS WERE NOT PERFORMED EXCEPT WHERE TOP OF PIPE ELEVATIONS ARE INDICATED.
5. THIS SURVEY IS OF VISIBLE FEATURES ONLY. UNDERGROUND ENCROACHMENTS, IF ANY, WERE NOT LOCATED. GUTTERS, OVERHANGS, WINDOW SILLS, OR UNDERGROUND FOUNDATIONS NOT LOCATED.
6. THE OWNERSHIP OF FENCES, IF ANY EXIST, ON OR NEAR THE PROPERTY LINES IS NOT KNOWN BY THIS SURVEYOR.
7. ADDITIONS, DELETIONS REPRODUCTION OF SURVEY DRAWINGS BY OTHER THAN THE SIGNED PARTY OR PARTIES IS PROHIBITED BY LAW WITHOUT WRITTEN CONSENT OF THE SIGNED PARTY OR PARTIES.
8. THIS SURVEY MAP IS VALID ONLY TO THOSE PERSONS OR ENTITIES NAMED HEREON. COASTAL ENGINEERING ASSOCIATES, INC. WILL ASSUME NO RESPONSIBILITY FOR THE UNAUTHORIZED REPRODUCTION AND/OR REDISTRIBUTION OF THIS SURVEY MAP.
9. ELEVATIONS AS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988, UNLESS OTHERWISE NOTED.
10. THIS SURVEY IS BASED ON THE TITLE COMMITMENT PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY COMMITMENT #1221-4246, DATED 01/17/2025, BUT MAY NOT NECESSARILY SHOW ALL RIGHT-OF-WAYS, EASEMENTS OR OTHER ENCUMBRANCES OF RECORD.
11. THIS PROPERTY IS SUBJECT TO ANY DEDICATION, LIMITATIONS, RESERVATIONS, RESTRICTIONS, AND/OR EASEMENTS OF RECORD AND NOT OF RECORD.
12. THE EXPECTED USE OF THE PROPERTY AS DESCRIBED HEREON, AS CLASSIFIED IN THE STANDARDS OF PRACTICE (5J-17 OF THE FLORIDA ADMINISTRATIVE CODE), IS "SUBURBAN". THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF BOUNDARY SURVEY IS 1 FOOT IN 7,500 FEET. THE ACCURACY OBTAINED BY MEASUREMENT AND CALCULATION OF A CLOSED GEOMETRIC FIGURE WAS FOUND TO MEET OR EXCEED THIS REQUIREMENT.
13. THE PROPERTY DESCRIBED HEREON APPEARS TO BE IN FLOOD ZONE X (AREA DETERMINED TO FALL OUTSIDE OF THE 1% CHANCE ANNUAL FLOODPLAIN) AS SCALED FROM THE FLOOD INSURANCE RATE MAP COMMUNITY NUMBER 120110, MAP NUMBER 12053C, PANEL NUMBER 0376-D AND 0377-D, EFFECTIVE DATE 02/02/2012.

PARCEL 1.1
OR. 2966, PG. 994
(Mak Family Partnership LTD)

PARCEL-1
(Lee K. Pedone)

PARCEL-2
(Lee K. Pedone)

PARCEL-3
(Lee K. Pedone)

TRACT 1.0
OR. 2653, PG. 171
(Lee K. Pedone)

TRACT 1.4
OR. 2653, PG. 171
WELL TO BE ABANDONED BY A FLORIDA LICENSED WELL CONTRACTOR IN ACCORDANCE WITH RULE 40D-3.531
CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING STRUCTURES, DRIVES, AND ASSOCIATED UTILITIES

CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING 4' FENCE
CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING STRUCTURES, DRIVES, AND ASSOCIATED UTILITIES
CONTRACTOR TO COORDINATE WITH LOCAL UTILITY PROVIDER FOR REMOVING EXISTING POWER LINE, POLES, AND ASSOCIATED EQUIPMENT OR GEAR.
WELL TO BE ABANDONED BY A FLORIDA LICENSED WELL CONTRACTOR IN ACCORDANCE WITH RULE 40D-3.531
SILT FENCE
OWNER TO COORDINATE RELOCATION OF EXISTING POWER POLE
CONSTRUCTION ENTRANCE SOIL TRACKING DEVICE PER DETAIL ON SHEET C-91
CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING MAIL BOXES
OWNERS TO COORDINATE WITH LOCAL UTILITY PROVIDER FOR REMOVING EXISTING POWER LINE, POLES, AND ASSOCIATED EQUIPMENT OR GEAR.
REMOVE EXISTING FENCE AS NEEDED TO INSTALL DASHBACH STREET.

KETTERING ROAD (R/W WIDTH VARIES)

N89°57'24"E 1118.89'(C)
N89°56'33"E 2613.39'(C)
S89°35'56"E 2618.86'(M)
S89°57'51"W 1331.50'(M)
S89°57'51"W 781.33'(C)
S89°58'20"W 469.21'(C)
S89°57'07"W 649.90'(170')
S00°18'49"E 500.00'(C)
S00°00'31"W 1321.39'(M)
S00°06'50"W 635.56'(M)
N00°16'48"W 1998.87'(C)
N00°19'44"W 308.09'(C)
N00°19'43"W 1044.74'(C)
N00°19'43"W 2706.75'(M)
N00°19'43"W 300.00'(C)
N00°19'43"W 412.57'(C)
N00°19'43"W 1631.61'(M)
N00°19'43"W 949.49'(C)
N00°19'43"W 1319.09'(C)
EAST LINE OF THE SE 1/4 OF SEC. 08-23-21
WEST LINE OF THE S.E. 1/4 OF SEC. 08-23-21

N

0 120 240
Feet

LEGEND

- TREE TO BE REMOVED
- TREE TO BE REMOVED RIGHT OF WAY ("0" MITIGATION INCHES)
- TREE TO BE SAVED
- PROTECTIVE TREE BARRIER
- SILT FENCE
- PRESERVED NATURAL VEGETATION BUFFERS AREA TO REMAIN UNCLEARED (7.42 ACRES) (7.42 ACRES REQUIRED)

** BASIS FOR BEARINGS **

BEARINGS SHOWN HEREON BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83), 2011 ADJUSTMENT, ESTABLISHING AN ASSUMED BEARING OF N00°19'43"W ALONG THE EAST LINE OF THE SOUTHEAST 1/4 OF SECTION 08-23-21. BEARINGS SHOWN HEREON ARE GRID BEARINGS.

N.A.V.D. 1988 DATUM

ELEVATIONS BASED ON N.G.S. T.B.M. Z-594, ELEV.=91.34. A 5/8"IR IN A VALVE BOX LOCATED ON THE SOUTH SIDE OF S.R. HWY. #50 AT PARKLAND AVENUE

SURVEYORS NOTE:
THE FLOOD ZONE SEPARATION LINE SHOWN HEREON WAS SCALED FROM A DIGITAL IMAGE OF THE FIRM MAP, COMMUNITY PANEL NUMBER AS INDICATED HEREON AND IS AN APPROXIMATE LOCATION ONLY.

LEGAL DESCRIPTION

PARCEL 1:

Commence at the Southeast corner of Section 8, Township 23 South, Range 21 East, Hernando County, Flonda, and go thence North 01° 03' 54" East along said East line of Section 8, 1361.89 feet for a Point of Beginning; continue North 01° 03' 54" East along said East line 300.00 feet, thence North 88° 39' 22" West, 700 feet, thence North 01° 03' 53" East, 200 feet, thence North 88° 39' 22" West, 469.21 feet, thence South 01° 03' 54" West, 500 feet, thence South 88° 39' 22" East, 1169.21 feet to the Point of Beginning. LESS the East 30 feet thereof for road right-of-way

PARCEL 2:

Begin at the Southeast corner of Section 8, Township 23 South, Range 21 East, Hernando County, Flonda; go thence North 01° 03' 54" East, along the East line of Section 8, 949.49 feet; thence North 88° 40' 31" West, 2665.35 feet to the West line of the Southeast 1/4 of said Section 8, thence South 01° 23' 27" West along said West line 948.60 feet to the South line of said Southeast 1/4, thence South 88° 39' 22" East, 2670.75 feet to the Point of Beginning, LESS the South and East 30 feet thereof for road right-of-way

AND

PARCEL 3:

Commence at the Southeast corner of Section 8, Township 23 South, Range 21 East, Hernando County, Flonda; go thence North 01° 03' 54" East along said East line of Section 8, 949.49 feet for a Point of Beginning; continue North 01° 03' 54" East along said East line, 712.40 feet, thence North 88° 39' 22" West, 700 feet, thence North 01° 03' 53" East, 200 feet, thence North 88° 39' 22" West, 1260.91 feet, thence North 01° 03' 54" East, 200 feet, thence North 88° 39' 22" West, 698.11 feet to the West line of the Southeast 1/4 of aforesaid Section 8, thence South 01° 23' 27" West along said West line, 1113.28 feet, thence South 88° 39' 22" East, 2665.35 feet to the Point of Beginning, LESS the East 30 feet thereof for road right-of-way, and

LESS AND EXCEPT Commence at the Southeast corner of Section 8, Township 23 South, Range 21 East, Hernando County, Flonda, and go thence North 01° 03' 54" East along said East line of Section 8, 1361.89 feet for a Point of Beginning; continue North 01° 03' 54" East along said East line 300.00 feet, thence North 88° 39' 22" West, 700 feet, thence North 01° 03' 53" East, 200 feet, thence North 88° 39' 22" West, 469.21 feet, thence South 01° 03' 54" West, 500 feet, thence South 88° 39' 22" East, 1169.21 feet to the Point of Beginning. LESS the East 30 feet thereof for road right-of-way.

EXISTING CONDITIONS & DEMO PLAN

VERONA HILLS

PLAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL SURVEYOR

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engineering associates, inc.
966 Candlelight Boulevard - Brooksville - Florida 34601
(352) 796-9423 - Fax (352) 799-8369
EB-0000142

DATE	REV.	BY	REV. NO.	REVISION
02/02/26	DG		1	REVISED PER COUNTY COMMENTS

WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

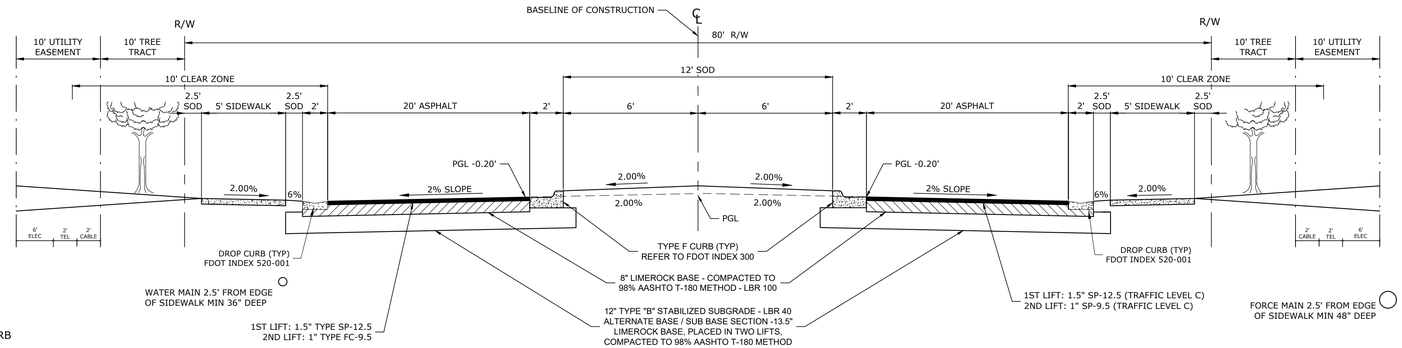
SHEET
C-03

JOB No.: 24062

PRINTED: 02/02/2026 - 8:59am PRINTED BY: DA PATH: L:\24062\VERONA HILLS\Dwg\ENG\Current\24062 - XD.dwg

MODIFIED COLLECTOR 2 LANE - CLOSED DRAINAGE NO:IV-10

DESIGN SPEED = 40 MPH*



SUBDIVISION ENTRANCE TYPICAL SECTION

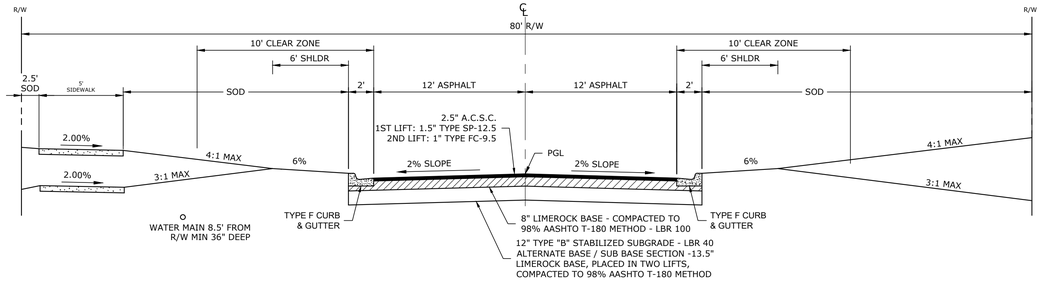
NOT TO SCALE

DEVIATIONS FROM TYPICAL SECTION NO: IV-10
*VARIANCE IN CLEAR ZONE FROM 10' TO 4' WITH USE OF TYPE F CURB
*ADDITION OF 12' SODDED MEDIAN UTILIZING TYPE F CURB
*INCREASE OF TOTAL ASPHALT PAVED SECTION FROM 24' TO 40'

COLLECTOR / 2 LANE ROAD - CLOSED DRAINAGE

DESIGN SPEED = 40 MPH*

MODIFIED HERNANDO COUNTY ROADWAY STANDARD DETAIL (IV-10)



DASHBACH STREET ROADWAY TYPICAL SECTION

NOT TO SCALE

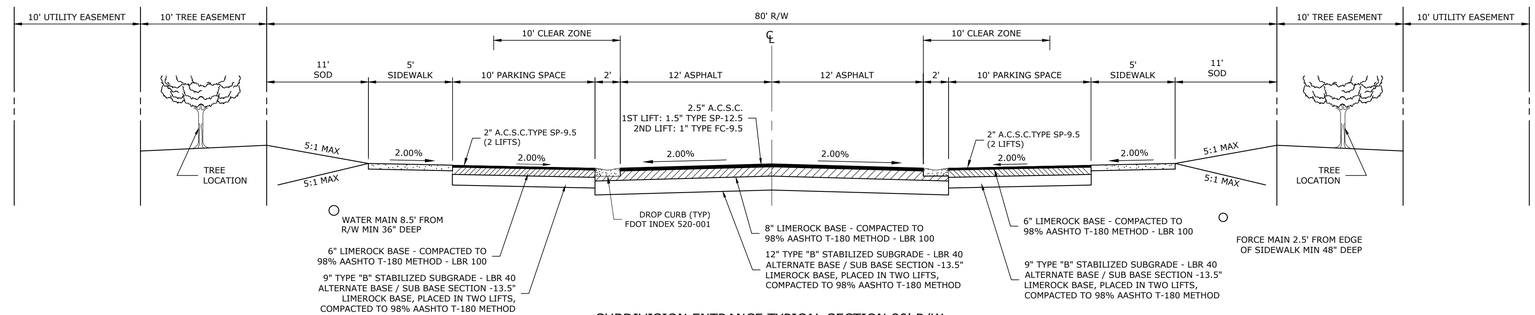
GENERAL NOTES:

DESIGN SPEED, RIGHT-OF-WAY, AND ROADSIDE DIMENSIONS ARE MINIMUMS. SITE CONDITION MAY REQUIRE INCREASES.

* VARIANCE IN HORIZONTAL DESIGN SPEED ALLOWED WITH JUSTIFICATION AND APPROPRIATE SIGNAGE

** SIDEWALKS IF APPLICABLE

ALL DIMENSIONS & LABELS ARE TYPICAL AND SHOWN IN FEET UNLESS LABELED OTHERWISE

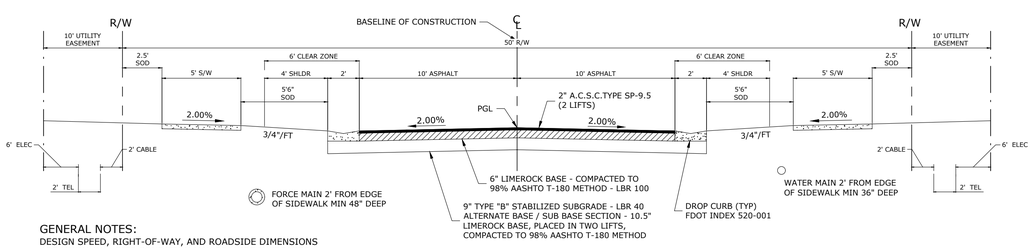


SUBDIVISION ENTRANCE TYPICAL SECTION 80' R/W WITH PARALLEL PARKING

NOT TO SCALE

LOCAL ROAD - CLOSED DRAINAGE NO:IV-05

DESIGN SPEED = 30 MPH*



GENERAL NOTES:
DESIGN SPEED, RIGHT-OF-WAY, AND ROADSIDE DIMENSIONS ARE MINIMUMS. SITE CONDITION MAY REQUIRE INCREASES.

* VARIANCE IN HORIZONTAL DESIGN SPEED ALLOWED WITH JUSTIFICATION AND APPROPRIATE SIGNAGE

** SIDEWALKS IF APPLICABLE

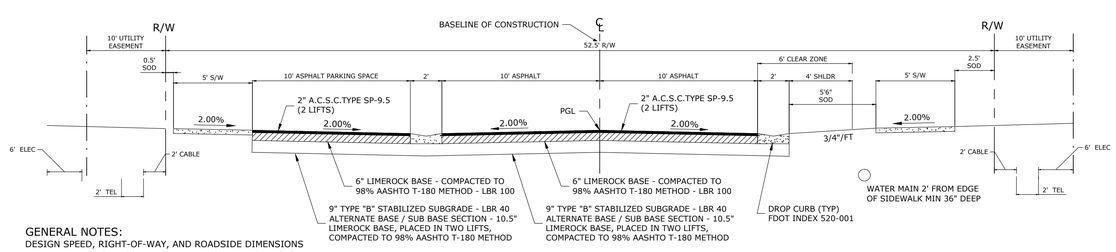
ALL DIMENSIONS & LABELS ARE TYPICAL

LOCAL ROAD - CLOSED DRAINAGE

NOT TO SCALE

LOCAL ROAD - CLOSED DRAINAGE NO:IV-05

DESIGN SPEED = 30 MPH*



GENERAL NOTES:
DESIGN SPEED, RIGHT-OF-WAY, AND ROADSIDE DIMENSIONS ARE MINIMUMS. SITE CONDITION MAY REQUIRE INCREASES.

* VARIANCE IN HORIZONTAL DESIGN SPEED ALLOWED WITH JUSTIFICATION AND APPROPRIATE SIGNAGE

** SIDEWALKS IF APPLICABLE

ALL DIMENSIONS & LABELS ARE TYPICAL

LOCAL ROAD WITH PARKING CLOSED DRAINAGE

NOT TO SCALE

TYPICAL ROADWAY SECTIONS & DETAILS

VERONA HILLS

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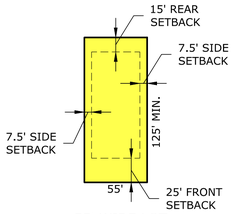
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LAND USE TABLE

LAND USE	ACRES	UNITS
SINGLE FAMILY	58.56	302 RESIDENTIAL UNITS
PRESERVED VEGETATION/PARK SITE	4.74	7.42 AC. PRESERVED VEGETATION REQUIRED
PRESERVED BUFFERS	2.68	
AMENITY SITE	3.52	3.52 Ac. PARK REQUIRED
DASHBACH & KETTERING R/W DEDICATION	4.27	
DRAINAGE	14.99	
RIGHT-OF-WAY	16.62	
OPEN SPACE	4.87	
TOTAL:	+/- 110.25	APPROX. 2.72 UNITS / ACRE

PRESERVED VEGETATION AND/OR PLANTED NATIVE VEGETATION REQUIREMENT
7% REQUIRED: 105.98 AC X 7% = 7.42 AC PROVIDED: 7.42 AC



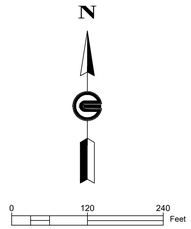
55' WIDE LOT

TYPICAL LOT DETAIL
N.T.S.

MIN. LOT SIZE 6,600 S.F.
MAX. BLDG. COVERAGE: 65%

PHASE I LOTS: 125
PHASE II LOTS: 177





LEGEND

- RESIDENTIAL
- BUFFERS & INTERNAL LANDSCAPING
- DRAINAGE (CONCEPTUAL)
- RIGHT-OF-WAYS
- R/W RESERVATION
- OPEN SPACE
- PRESERVED VEGETATION
- AMENITY SITE
- PHASE LINE

SITE DATA
OWNER: LEE K. PEDONE & LEE K. PEDONE TTEE
APPLICANT: LENNAR HOMES
4301 W. BOY SCOUT BLVD. SUITE, 600
TAMPA, FL 33607
CONTACT: BRIAN PANICO
PHONE: (656) 239-2352
E-MAIL: BRIAN.PANICO@LENNAR.COM
PARCEL KEY: 1357971 & 394585
PROJECT AREA: 110.3 AC
SECTION/TOWNSHIP/RANGE: 16/23S/21E
ZONING: PDP (SF)
PROPOSED NO. OF UNITS: 302

MINIMUM PERIMETER BUILDING SETBACK (INCLUSIVE OF BUFFER):
EAST (FROM KETTERING ROAD R/W): 50'
WEST: 35'
SOUTH (FROM DASHBACH ST R/W): 35'
NORTH: 35'

SINGLE FAMILY INTERNAL LOT BUILDING SETBACKS:
FRONT/SIDE (CORNER LOTS) 25'
SIDE 7.5'
REAR 15'

MINIMUM BUFFER REQUIREMENTS:
EAST FROM KETTERING ROAD: 20'
WEST: 20'
SOUTH FROM DASHBACH ST: 20'
NORTH: 20'

BUFFER NOTE: THESE BUFFERS SHALL BE PLACED IN A SEPARATE TRACT OWNED AND MAINTAINED BY THE HOA. THE WEST BUFFER WILL BE NATURAL VEGETIVE AND THE SOUTH, NORTH, AND EAST BUFFERS WILL BE LANDSCAPED BUFFERS. 80% OPACITY WILL NOT BE ACHIEVED.

FLOODPLAIN:
THE PROJECT IS LOCATED ON FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY PANEL 12053C0376D, EFFECTIVE DATE FEBRUARY 2, 2012. THE ENTIRE SITE IS DESIGNATED FLOOD ZONE X.

FIRE PROTECTION:
FIRE HYDRANTS WILL BE PLACED THROUGHOUT THE COMMUNITY AT A MINIMUM OF 250' CURB LINE DISTANCE INTERVALS, WHICH IS CONSISTENT WITH COUNTY STANDARDS. THE POTABLE WATER SYSTEM IS DESIGNED TO PROVIDE A MINIMUM OF 1,000 GPM AT A MINIMUM OF 20 PSI FOR USE IN FIREFIGHTING AS REQUIRED BY NFPA GUIDELINES, AND HERNANDO COUNTY.

OVERALL SITE PLAN

VERONA HILLS

PLAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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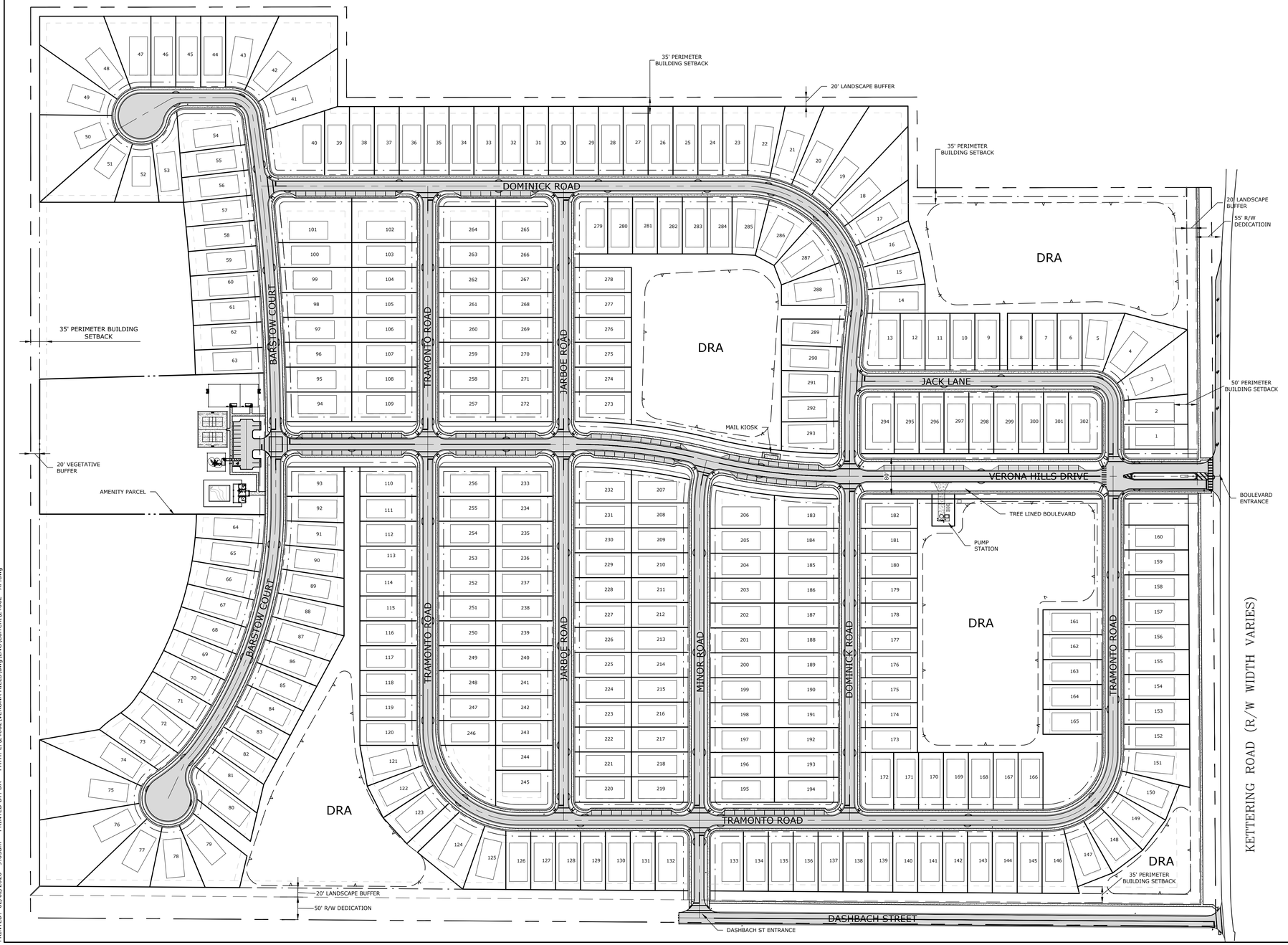
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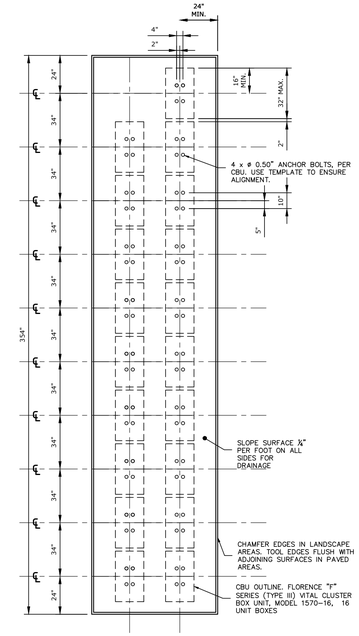
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SHEET
C-05

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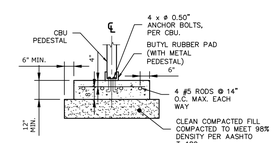




PLAN

NOTES:

1. CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF 3,000 PSI @ 28 DAYS, CONTAIN 4% MINIMUM - 6% MAXIMUM AIR ENTRAINMENT AND BE PLACED WITH A 3.50 - 4.50 SLUMP IN ACCORDANCE WITH ACI 301.
2. REINFORCING STEEL RODS SHALL CONFORM TO ASTM A615, GRADE 60.
3. ANCHOR BOLTS SHALL CONFORM TO ASTM A193, GRADE B8M, TYPE 316 STAINLESS STEEL.
4. ALL CBU'S MUST BE LEVEL AND MOUNTED FIRMLY IN CONCRETE, USING ONE OF THE FOLLOWING METHODS:
   a. J-BOLT ATTACHMENT IS THE PREFERRED METHOD OF CBU INSTALLATION.
   b. THE USE OF ANCHOR BOLTS FOR CBU INSTALLATION IS ALSO ACCEPTABLE:
      - HILTI KWIK BOLT II, ½" Ø x 5 - ½" OVERALL LENGTH, CATALOG #000-453-696, KB II 12-512 STAINLESS STEEL CATALOG #000-454-744. MIN. EMBEDMENT IN CONCRETE MUST BE NO LESS THAN 3 - ½"
      - ITW RAMSET REDHEAD TRUBOLT, GALVANIZED, ½" Ø x 7" OVERALL LENGTH.
      - RAWL STUD, ½" Ø x 5 - ½" OVERALL LENGTH, GALVANIZED. MIN. EMBEDMENT IN CONCRETE MUST BE NO LESS THAN 4".



SECTION

CLUSTER BOX UNIT (CBU) INSTALLATION DETAIL

NOT TO SCALE

ADDRESS PLAN

VERONA HILLS

BRIAN M. MALMBERG
LICENSED
No. 59405
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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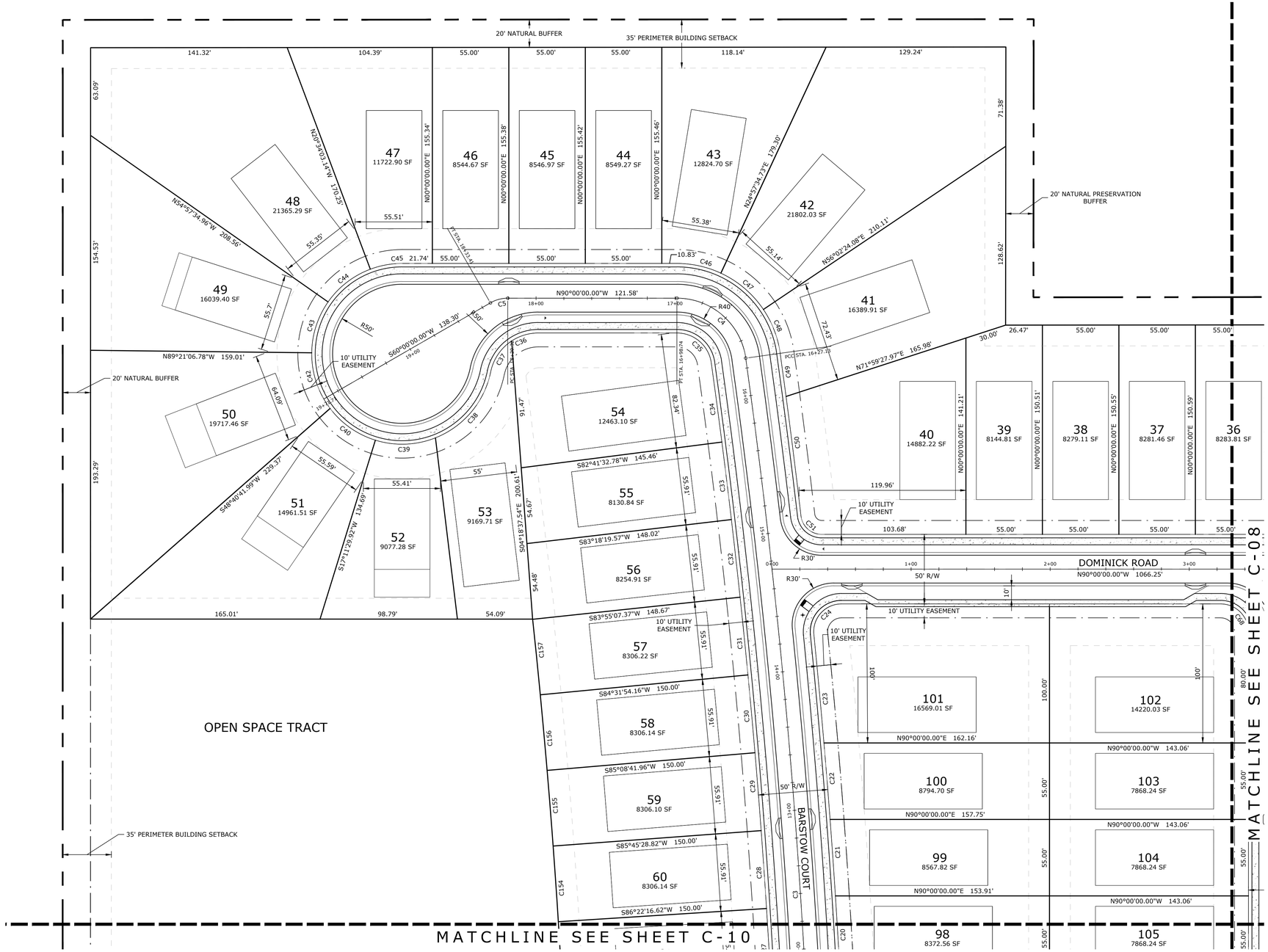
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SHEET

C-06

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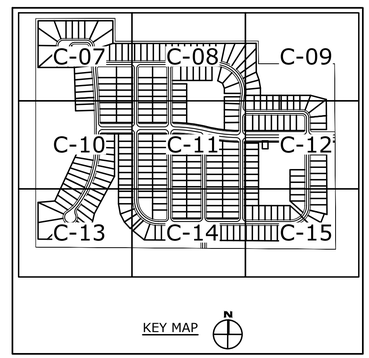


N

0 40 80 Feet

LEGEND

PHASE LINE



HORIZONTAL CONTROL PLAN (1)

VERONA HILLS

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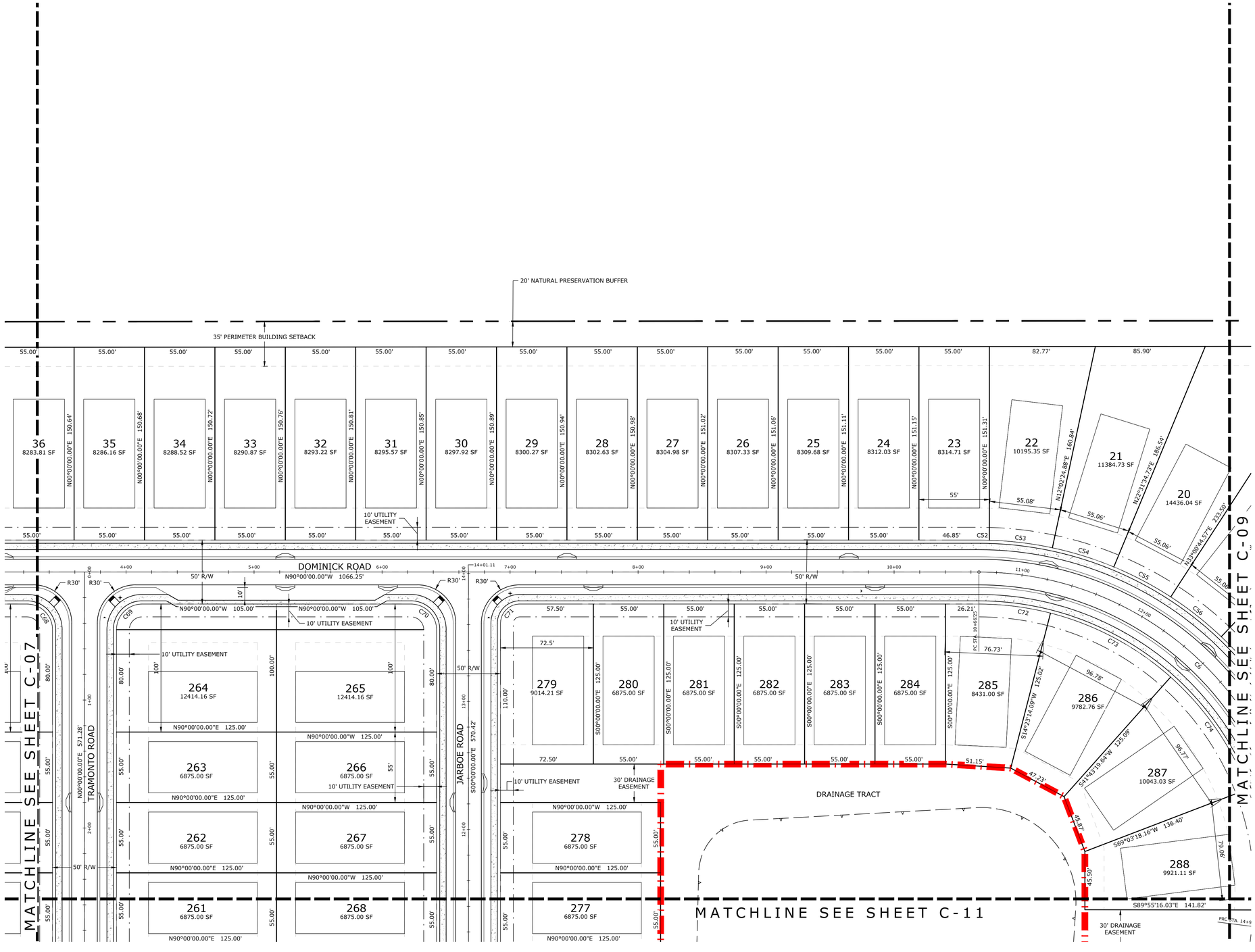
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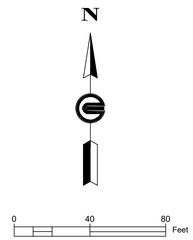
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C-07

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LEGEND

PHASE LINE

HORIZONTAL CONTROL PLAN (2)

VERONA HILLS

BRIAN M. MALMBERG
LICENSE
No. 59405
STATE OF FLORIDA
PROFESSIONAL ENGINEER

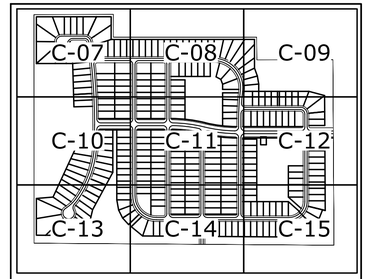
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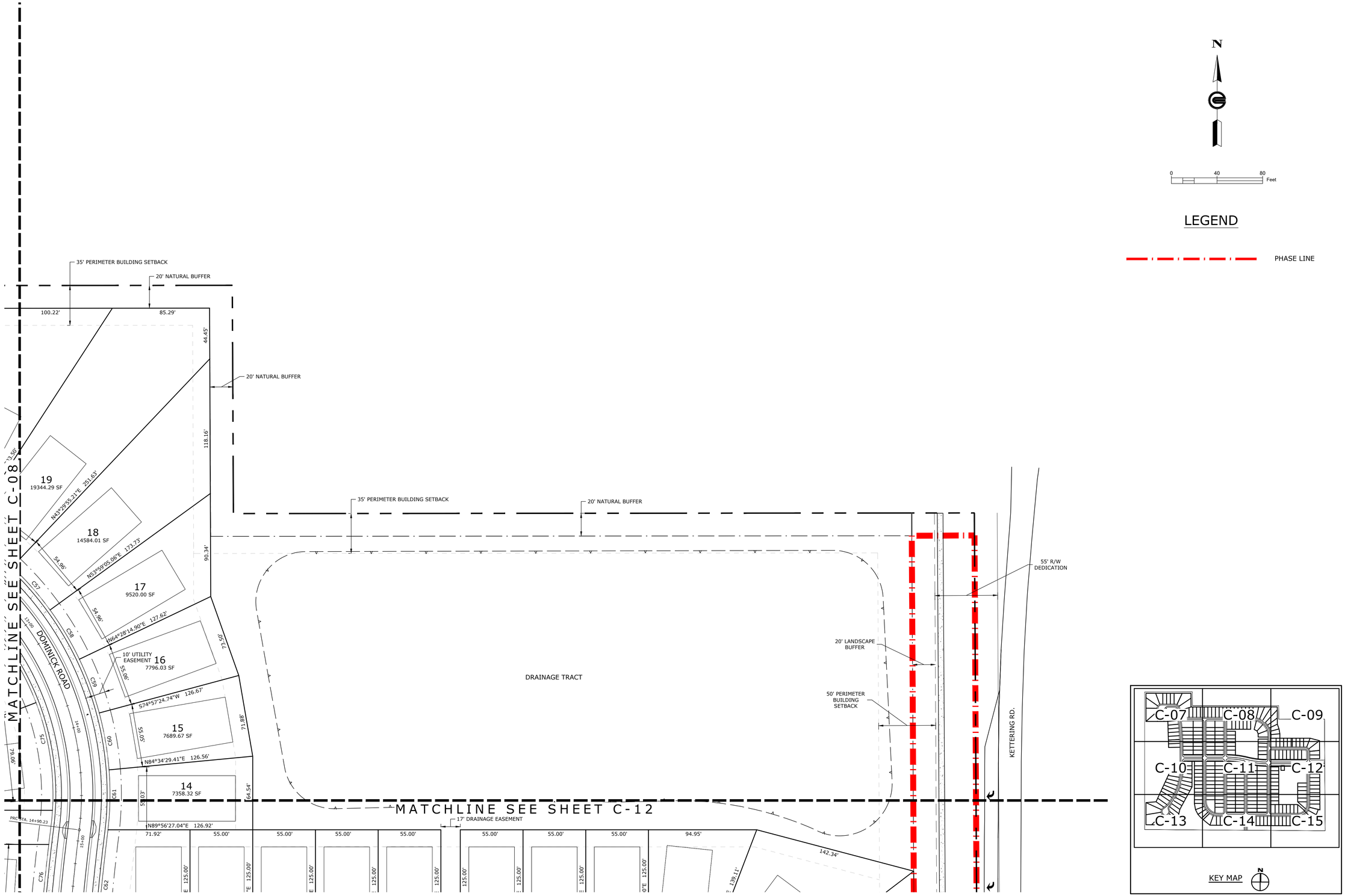


KEY MAP

SHEET
C-08

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HORIZONTAL CONTROL PLAN (3)

VERONA HILLS

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SHEET
C-09

JOB No.: 24062

MATCHLINE SEE SHEET C-07

MATCHLINE SEE SHEET C-11

MATCHLINE SEE SHEET C-13

N

0 40 80 Feet

LEGEND

PHASE LINE

OPEN SPACE TRACT

20' NATURAL BUFFER

35' PERIMETER BUILDING SETBACK

S00°00'21.27"W 298.29'

S88°24'06.56"W 494.31'

N88°24'06.56"E 150.00'

61 8306.14 SF

S86°59'03.41"W 150.00'

62 8306.20 SF

S87°35'51.21"W 150.00'

63 8323.75 SF

N90°00'00.00"W 371.80'

PICKLEBALL COURTS

PLAYGROUND

POOL W/ OPEN AIR BATHROOM

10' UTILITY EASEMENT

PC STA. 8+96.70

PT STA. 7+63.72

BARSTOW COURT

98 8372.56 SF

97 8208.87 SF

96 8076.70 SF

95 7975.99 SF

94 9400.13 SF

93 8186.21 SF

92 7090.72 SF

91 7335.52 SF

90 7675.41 SF

89 8242.90 SF

88 9053.86 SF

87 9121.19 SF

64 8690.78 SF

65 8627.26 SF

66 8627.47 SF

67 8627.26 SF

68 8627.26 SF

105 7868.24 SF

106 7868.24 SF

107 7868.24 SF

108 7868.24 SF

109 9359.60 SF

110 8123.59 SF

111 6875.00 SF

112 6875.00 SF

113 6875.00 SF

114 6875.00 SF

115 6875.00 SF

116 6875.00 SF

10' TREE TRACT

VERONA HILLS DRIVE

80' R/W

50' R/W

TRAMONTO ROAD

DRAINAGE TRACT

KEY MAP

C-07 C-08 C-09
C-10 C-11 C-12
C-13 C-14 C-15

HORIZONTAL CONTROL PLAN (4)

VERONA HILLS

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C-10

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MATCHLINE SEE SHEET C-08

MATCHLINE SEE SHEET C-10

MATCHLINE SEE SHEET C-12

MATCHLINE SEE SHEET C-14

TRAMONTO ROAD N00°00'00.00"E 571.28'

TRAMONTO ROAD N00°00'00.00"E 629.83'

JARBOE ROAD 11+00 S00°00'00.00"E 570.42'

JARBOE ROAD S00°00'00.00"E 830.69'

MINOR ROAD N00°00'00.00"E 693.59'

VERONA HILLS DRIVE

50' R/W

80' R/W

10' TREE TRACT

10' UTILITY EASEMENT

30' DRAINAGE EASEMENT

DRAINAGE TRACT

PRC STA. 14+90.23

PC STA. 9+19.24

PT STA. 9+91.74

PC STA. 4+79.60

261	6875.00 SF	N90°00'00.00"E 125.00'
260	6875.00 SF	N90°00'00.00"E 125.00'
259	6875.00 SF	N90°00'00.00"E 125.00'
258	6875.00 SF	N90°00'00.00"E 125.00'
257	8178.10 SF	N90°00'00.00"E 125.00'
268	6875.00 SF	N90°00'00.00"W 125.00'
269	6875.00 SF	N90°00'00.00"W 125.00'
270	6875.00 SF	N90°00'00.00"W 125.00'
271	6875.00 SF	N90°00'00.00"W 125.00'
272	8178.10 SF	N90°00'00.00"W 125.00'
277	6875.00 SF	N90°00'00.00"E 125.00'
276	6875.00 SF	N90°00'00.00"E 125.00'
275	6875.00 SF	N90°00'00.00"E 125.00'
274	6875.00 SF	N90°00'00.00"E 125.00'
273	8434.35 SF	N90°00'00.00"E 125.00'
289	8046.47 SF	N89°55'16.03"W 138.55'
290	7226.58 SF	N88°00'35.76"W 132.41'
291	7176.16 SF	N88°41'19.44"W 128.52'
292	6914.30 SF	S89°11'41.30"W 126.25'
293	8622.59 SF	N89°11'57.32"E 125.52'
256	8123.59 SF	N90°00'00.00"W 124.14'
255	6875.00 SF	N90°00'00.00"W 125.00'
254	6875.00 SF	N90°00'00.00"W 125.00'
253	6875.00 SF	N90°00'00.00"W 125.00'
252	6875.00 SF	N90°00'00.00"W 125.00'
251	6875.00 SF	N90°00'00.00"W 125.00'
250	6875.00 SF	N90°00'00.00"W 125.00'
233	8123.59 SF	N90°00'00.00"E 125.00'
234	6875.00 SF	N90°00'00.00"E 125.00'
235	6875.00 SF	N90°00'00.00"E 125.00'
236	6875.00 SF	N90°00'00.00"E 125.00'
237	6875.00 SF	N90°00'00.00"E 125.00'
238	6875.00 SF	N90°00'00.00"E 125.00'
239	6875.00 SF	N90°00'00.00"E 125.00'
232	9670.70 SF	N90°00'00.00"W 125.00'
231	6875.00 SF	N90°00'00.00"W 125.00'
230	6875.00 SF	N90°00'00.00"W 125.00'
229	6875.00 SF	N90°00'00.00"W 125.00'
228	6875.00 SF	N90°00'00.00"W 125.00'
227	6875.00 SF	N90°00'00.00"W 125.00'
226	6875.00 SF	N90°00'00.00"W 125.00'
207	8088.54 SF	N90°00'00.00"E 125.09'
208	6875.21 SF	N90°00'00.00"E 125.00'
209	6875.00 SF	N90°00'00.00"E 125.00'
210	6875.00 SF	N90°00'00.00"E 125.00'
211	6875.00 SF	N90°00'00.00"E 125.00'
212	6875.00 SF	N90°00'00.00"E 125.00'
213	6875.00 SF	N90°00'00.00"E 125.00'
206	11702.25 SF	N90°00'00.00"W 141.00'
205	7755.00 SF	N90°00'00.00"W 141.00'
204	7755.00 SF	N90°00'00.00"W 141.00'
203	7755.00 SF	N90°00'00.00"W 141.00'
202	7755.00 SF	N90°00'00.00"W 141.00'
201	7755.00 SF	N90°00'00.00"W 141.00'
183	9533.52 SF	N90°00'00.00"E 141.00'
184	7755.00 SF	N90°00'00.00"E 141.00'
185	7755.00 SF	N90°00'00.00"E 141.00'
186	7755.00 SF	N90°00'00.00"E 141.00'
187	7755.00 SF	N90°00'00.00"E 141.00'
188	7755.00 SF	N90°00'00.00"E 141.00'

N

0 40 80 Feet

LEGEND

PHASE LINE

KEY MAP

C-07 C-08 C-09 C-10 C-11 C-12 C-13 C-14 C-15

HORIZONTAL CONTROL PLAN (5)

VERONA HILLS

Coastal
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Environmental
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Construction Management
engineering associates, inc.
966 Candlelight Boulevard - Brooksville - Florida 34601
(352) 796-9423 - Fax (352) 799-8359
EB-0000142

BRIAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET

C-11

JOB No.: 24062

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MATCHLINE SEE SHEET C-09

MATCHLINE SEE SHEET C-11

MATCHLINE SEE SHEET C-15

PRC STA. 14+90.23

N89°56'27.04"E 126.92'

17' DRAINAGE EASEMENT

13 9745.79 SF | 12 6875.00 SF | 11 6875.00 SF | 10 6875.00 SF | 9 6875.00 SF | 8 6875.00 SF | 7 6875.00 SF | 6 6875.00 SF | 5 8930.38 SF | 4 13595.38 SF | 3 13725.75 SF | 2 8344.05 SF | 1 7723.69 SF

JACK LANE

50' R/W

N90°00'00.00"E 530.44'

10' UTILITY EASEMENT

DOMINICK ROAD

294 9882.52 SF | 295 7425.00 SF | 296 7425.00 SF | 297 7425.00 SF | 298 7425.00 SF | 299 7425.00 SF | 300 7425.00 SF | 301 7425.00 SF | 302 9811.14 SF

10' TREE TRACT

VERONA HILLS DRIVE

80' R/W

N90°00'00.00"W 848.29'

LIFT STATION TRACT

DRAINAGE TRACT

182 6875.00 SF | 181 6875.00 SF | 180 6875.00 SF | 179 6875.00 SF | 178 6875.00 SF | 177 6875.00 SF

TRAMONTO ROAD

161 7142.20 SF | 162 7142.20 SF | 160 7793.96 SF | 159 7811.32 SF | 158 7828.67 SF | 157 7846.02 SF | 156 7863.38 SF

20' LANDSCAPE BUFFER

50' PERIMETER BUILDING SETBACK

55' R/W DEDICATION

KETTERING RD.

N

0 40 80 Feet

LEGEND

PHASE LINE

KEY MAP

C-07 C-08 C-09 C-10 C-11 C-12 C-13 C-14 C-15

HORIZONTAL CONTROL PLAN (6)

VERONA HILLS

PLAT OF BRIAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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SHEET
C-12

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MATCHLINE SEE SHEET C-10

MATCHLINE SEE SHEET C-14

20' NATURAL PRESERVE BUFFER

35' PERIMETER BUILDING SETBACK

OPEN SPACE TRACT

BARSTOW COURT

69 8627.26 SF
70 8627.47 SF
71 8627.26 SF
72 9757.16 SF
73 8867.89 SF
74 13125.39 SF
75 23962.03 SF
76 27494.84 SF
77 14523.37 SF
78 10719.90 SF
79 13880.99 SF
80 9362.67 SF
81 8814.85 SF
82 7994.33 SF
83 7774.98 SF
84 7774.99 SF
85 7994.34 SF
86 8438.99 SF

117 6875.00 SF
118 6875.00 SF
119 6875.00 SF
120 6905.03 SF
121 8711.65 SF
122 8272.04 SF

10' UTILITY EASEMENT

DRAINAGE TRACT

30' DRAINAGE EASEMENT

35' PERIMETER BUILDING SETBACK

20' LANDSCAPE BUFFER

50' R/W DEDICATION

N

0 40 80 Feet

LEGEND

PHASE LINE

KEY MAP

C-07 C-08 C-09
C-10 C-11 C-12
C-13 C-14 C-15

HORIZONTAL CONTROL PLAN (7)

VERONA HILLS

PLAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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SHEET
C-13

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MATCHLINE SEE SHEET C-11

MATCHLINE SEE SHEET C-13

MATCHLINE SEE SHEET C-15

TRAMONTO ROAD

JARBOE ROAD

MINOR ROAD

DASHBACH STREET

OPEN SPACE TRACT

10' UTILITY EASEMENT

20' LANDSCAPE BUFFER

35' PERIMETER BUILDING SETBACK

50' R/W DEDICATION

50' R/W

PHASE LINE

LEGEND

0 40 80 Feet

KEY MAP

C-07 C-08 C-09 C-10 C-11 C-12 C-13 C-14 C-15

HORIZONTAL CONTROL PLAN (8)

VERONA HILLS

PRELIMINARY PLAT

MALMBERG LICENSE No. 59405 STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER

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SHEET
C-14

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MATCHLINE SEE SHEET C-12

MATCHLINE SEE SHEET C-14

DOMINICK ROAD

50' R/W

S00°00'00.00"E 871.96'

176 6875.00 SF N90°00'00.00"E 125.00'

175 6875.00 SF N90°00'00.00"E 125.00'

174 6875.00 SF N90°00'00.00"E 125.00'

173 6875.01 SF N90°00'00.00"E 125.00'

DRAINAGE TRACT

163 7142.20 SF N90°00'00.00"W 129.86'

164 7142.20 SF N90°00'00.00"W 129.86'

165 7142.21 SF N90°00'00.00"E 129.86'

TRAMONTO ROAD

S00°00'00.00"E 770.45'

10' UTILITY EASEMENT

PT STA: 29+15.25

155 7880.73 SF N90°00'00.00"E 143.44'

154 7898.09 SF N90°00'00.00"E 143.76'

153 7915.44 SF N90°00'00.00"E 144.07'

152 7933.04 SF N90°00'00.00"E 144.39'

151 9790.72 S76°22'59.83"E 130.05'

150 8393.14 SF S60°41'08.24"E 130.05'

149 8393.12 SF S44°59'16.65"E 130.05'

148 8393.10 SF S29°17'25.05"E 130.05'

147 8393.08 SF S15°35'33.46"E 130.05'

146 9015.22 SF

KETTERING RD.

55' R/W DEDICATION

20' LANDSCAPE BUFFER

50' PERIMETER BUILDING SETBACK

172 9014.21 SF

171 6875.00 SF

170 6875.00 SF

169 6875.00 SF

168 6875.00 SF

167 6875.00 SF

166 6875.00 SF

137 7997.89 SF

138 7319.19 SF

139 7340.49 SF

140 7361.78 SF

141 7383.08 SF

142 7404.38 SF

143 7425.67 SF

144 7446.97 SF

145 7468.27 SF

TRAMONTO ROAD

N90°00'00.00"W 764.36'

50' R/W

20' LANDSCAPE BUFFER

35' PERIMETER BUILDING SETBACK

50' R/W DEDICATION

DASHBACH STREET

24'

R30'

R35'

0 40 80 Feet

LEGEND

PHASE LINE

KEY MAP

C-07 C-08 C-09 C-10 C-11 C-12 C-13 C-14 C-15

HORIZONTAL CONTROL PLAN (9)

VERONA HILLS

BRIAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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SHEET
C-15

JOB No.: 24062

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CURVE TABLE					
CURVE NO.	DELTA	RADIUS	LENGTH	CHORD DISTANCE	CHORD BEARING
C1	013°51'01.08"	1215.61	293.85'	293.14'	N83°04'29.46"W
C2	013°51'01.08"	1215.61	293.85'	293.14'	N83°04'29.46"W
C3	007°56'06.51"	5273.57	730.36'	729.78'	N03°58'03.25"W
C4	082°03'53.49"	50.00	71.62'	65.65'	N48°58'03.25"W
C5	030°00'00.00"	25.00	13.09'	12.94'	S75°00'00.00"W
C6	097°10'10.23"	250.00	423.98'	374.97'	N41°24'54.88"W
C7	007°10'10.23"	1886.60	236.07'	235.92'	N03°35'05.12"E
C8	035°42'08.19"	900.00	560.81'	551.78'	N17°51'04.10"E
C9	008°03'50.96"	310.00	43.63'	43.60'	N39°44'03.67"E
C10	018°47'36.87"	25.00	8.20'	8.16'	N34°22'10.71"E
C11	013°50'44.53"	300.00	72.50'	72.32'	N06°55'22.27"E
C12	090°00'00.00"	200.00	314.16'	282.84'	N45°00'00.00"W
C13	090°00'00.00"	150.00	235.62'	212.13'	S45°00'00.00"W
C14	006°08'21.86"	1165.61	124.90'	124.84'	S86°53'11.15"E
C15	005°37'50.56"	1265.61	124.38'	124.33'	S87°08'49.94"E
C16	000°42'27.17"	5298.71	65.43'	65.43'	S00°57'28.59"E
C17	000°35'41.86"	5298.71	55.02'	55.02'	S01°36'33.10"E
C18	000°35'42.60"	5298.71	55.04'	55.04'	S02°12'15.33"E
C19	000°35'43.57"	5298.71	55.07'	55.07'	S02°47'58.42"E
C20	000°35'44.78"	5298.71	55.10'	55.10'	S03°23'42.59"E
C21	000°35'46.22"	5298.71	55.13'	55.13'	S03°59'28.09"E
C22	000°35'47.90"	5298.71	55.18'	55.18'	S04°35'15.15"E
C23	000°51'09.01"	5294.88	78.78'	78.78'	S05°18'46.87"E
C24	095°44'18.11"	19.80	33.09'	29.37'	S42°46'41.93"W
C25	000°37'01.86"	5249.26	56.54'	56.54'	N02°05'40.07"W
C26	000°36'47.45"	5249.26	56.18'	56.18'	N02°42'34.73"W
C27	000°36'47.42"	5249.26	56.18'	56.18'	N03°19'22.16"W
C28	000°36'47.45"	5249.26	56.18'	56.18'	N03°56'09.60"W
C29	000°36'47.42"	5249.26	56.18'	56.18'	N04°32'57.03"W
C30	000°36'47.44"	5249.26	56.18'	56.18'	N05°09'44.46"W
C31	000°36'47.42"	5249.26	56.18'	56.18'	N05°46'31.90"W
C32	000°36'47.44"	5249.26	56.18'	56.18'	N06°23'19.33"W
C33	000°36'47.42"	5249.26	56.18'	56.18'	N07°00'06.76"W
C34	000°38'08.22"	5249.26	58.23'	58.23'	N07°37'34.59"W
C35	080°08'55.12"	25.00	34.97'	32.19'	N49°55'32.44"W
C36	033°15'48.33"	35.00	20.32'	20.04'	S73°22'05.84"W
C37	045°11'58.62"	35.00	27.61'	26.90'	S34°08'12.36"W
C38	056°48'51.13"	65.00	64.45'	61.85'	S39°56'38.62"W
C39	038°50'25.74"	65.00	44.06'	43.22'	S87°46'17.05"W
C40	035°36'07.25"	65.00	40.39'	39.74'	N55°00'26.45"W
C42	037°51'16.05"	65.00	42.94'	42.17'	N18°16'44.80"W
C43	034°23'31.82"	65.00	39.02'	38.43'	N17°50'39.13"E
C44	034°23'31.82"	65.00	39.02'	38.43'	N52°14'10.95"E

CURVE TABLE					
CURVE NO.	DELTA	RADIUS	LENGTH	CHORD DISTANCE	CHORD BEARING
C45	020°34'03.14"	65.00	23.33'	23.21'	N79°42'58.43"E
C46	024°57'34.73"	75.00	32.67'	32.41'	S77°31'12.64"E
C47	031°04'49.35"	75.00	40.68'	40.19'	S49°30'00.60"E
C48	024°54'47.87"	75.00	32.61'	32.36'	S21°30'11.99"E
C49	000°21'15.18"	5298.71	32.76'	32.76'	S07°46'25.09"E
C50	000°56'10.46"	5298.71	86.58'	86.58'	S07°07'42.27"E
C51	083°20'22.96"	15.00	21.82'	19.95'	S48°19'48.52"E
C52	001°41'52.89"	275.00	8.15'	8.15'	S89°09'03.55"E
C53	010°20'31.99"	275.00	49.64'	49.57'	S83°07'51.11"E
C54	010°29'09.84"	275.00	50.33'	50.26'	S72°43'00.19"E
C55	010°29'09.84"	275.00	50.33'	50.26'	S62°13'50.35"E
C56	010°29'10.64"	275.00	50.33'	50.26'	S51°44'40.11"E
C57	010°29'09.84"	275.00	50.33'	50.26'	S41°15'29.87"E
C58	010°29'09.84"	275.00	50.33'	50.26'	S30°46'20.02"E
C59	010°29'09.84"	275.00	50.33'	50.26'	S20°17'10.18"E
C60	010°34'00.85"	275.00	50.72'	50.65'	S09°45'34.83"E
C61	010°58'21.51"	275.00	52.66'	52.58'	S01°00'36.35"W
C62	003°05'41.30"	1975.00	106.68'	106.67'	S05°32'02.81"W
C63	093°59'12.16"	15.00	24.61'	21.94'	S43°00'23.92"E
C64	020°55'06.00"	75.00	27.38'	27.23'	S79°32'27.00"E
C65	031°40'34.91"	75.00	41.46'	40.94'	S53°14'36.55"E
C66	031°40'23.99"	75.00	41.46'	40.93'	S21°34'07.10"E
C67	005°43'55.10"	75.00	7.50'	7.50'	S02°51'57.55"E
C68	090°00'00.00"	20.00	31.42'	28.28'	N45°00'00.00"W
C69	090°00'00.00"	20.00	31.42'	28.28'	S45°00'00.00"W
C70	090°00'00.00"	20.00	31.42'	28.28'	N45°00'00.00"W
C71	090°00'00.00"	15.00	23.56'	21.21'	S45°00'00.00"W
C72	014°23'14.09"	225.00	56.50'	56.35'	N82°48'22.96"W
C73	027°20'05.55"	225.00	107.34'	106.33'	N61°56'43.13"W
C74	027°19'58.52"	225.00	107.34'	106.32'	N34°36'41.10"W
C75	024°31'01.75"	225.00	96.28'	95.55'	N08°41'10.96"W
C76	001°51'24.66"	1911.60	61.95'	61.95'	N05°46'09.99"E
C77	001°38'24.66"	1911.60	54.72'	54.72'	N04°01'15.34"E
C78	001°37'15.86"	1911.60	54.08'	54.08'	N02°23'25.08"E
C79	001°38'55.77"	1911.60	55.01'	55.01'	N00°45'19.26"E
C80	019°51'46.95"	15.00	5.20'	5.17'	N09°55'53.47"E
C81	088°34'37.21"	15.00	23.19'	20.95'	S45°42'41.39"W
C82	090°00'00.00"	25.00	39.27'	35.36'	N45°00'00.00"W
C83	019°28'16.39"	15.00	5.10'	5.07'	N09°44'08.20"E
C84	004°12'23.04"	875.00	64.24'	64.22'	N03°11'14.14"E
C85	004°07'09.17"	875.00	62.91'	62.89'	N07°21'00.25"E
C86	004°07'09.53"	875.00	62.91'	62.90'	N11°28'09.60"E
C87	004°07'09.17"	875.00	62.91'	62.89'	N15°35'18.95"E

CURVE TABLE					
CURVE NO.	DELTA	RADIUS	LENGTH	CHORD DISTANCE	CHORD BEARING
C88	004°07'09.17"	875.00	62.91'	62.89'	N19°42'28.13"E
C89	004°07'09.17"	875.00	62.91'	62.89'	N23°49'37.30"E
C90	004°07'09.53"	875.00	62.91'	62.90'	N27°56'46.65"E
C91	004°07'09.17"	875.00	62.91'	62.89'	N32°03'56.01"E
C92	001°34'37.60"	875.00	24.09'	24.08'	N34°54'49.39"E
C93	008°26'30.52"	285.00	41.99'	41.95'	N39°55'23.45"E
C94	010°49'43.57"	285.00	53.86'	53.78'	N49°33'30.49"E
C96	029°53'49.49"	65.00	33.92'	33.53'	N40°01'27.54"E
C97	034°35'07.86"	65.00	39.24'	38.64'	N07°46'58.86"E
C98	034°23'16.97"	65.00	39.01'	38.43'	N26°42'13.55"W
C99	034°23'16.97"	65.00	39.01'	38.43'	N61°05'30.52"W
C100	034°23'16.97"	65.00	39.01'	38.43'	S84°31'12.51"W
C101	036°40'07.01"	65.00	41.60'	40.89'	S48°59'30.51"W
C102	028°51'03.10"	65.00	32.73'	32.39'	N16°13'55.46"E
C103	030°02'37.81"	65.00	34.08'	33.69'	S13°12'55.00"E
C104	068°49'18.13"	35.00	42.04'	39.56'	S06°10'25.16"W
C105	002°19'10.44"	35.00	1.42'	1.42'	S41°44'39.44"W
C106	007°12'06.47"	335.00	42.11'	42.08'	S39°18'11.43"W
C107	000°39'29.55"	925.00	10.63'	10.63'	S35°22'23.42"W
C108	003°19'00.97"	925.00	53.55'	53.54'	S33°23'08.16"W
C109	003°19'00.97"	925.00	53.55'	53.54'	S30°04'07.19"W
C110	003°19'00.97"	925.00	53.55'	53.54'	S26°45'06.21"W
C111	003°19'00.97"	925.00	53.55'	53.54'	S23°26'05.24"W
C112	003°19'00.97"	925.00	53.55'	53.54'	S20°07'04.27"W
C113	003°19'00.97"	925.00	53.55'	53.54'	S16°48'03.30"W
C114	003°19'00.97"	925.00	53.55'	53.54'	S13°29'02.32"W
C115	003°19'00.97"	925.00	53.55'	53.54'	S10°10'01.35"W
C116	003°19'00.97"	925.00	53.55'	53.54'	S06°51'00.38"W
C117	003°19'00.97"	925.00	53.55'	53.54'	S03°31'59.41"W
C118	001°52'28.92"	925.00	30.27'	30.26'	S00°56'14.46"W
C119	019°28'16.39"	15.00	5.10'	5.07'	S09°44'08.20"W
C120	019°28'16.39"	15.00	5.10'	5.07'	N09°44'08.20"W
C121	008°46'17.17"	225.00	34.45'	34.41'	N04°23'08.58"W
C122	011°41'13.82"	225.00	45.90'	45.82'	N14°36'54.08"W
C123	012°35'43.80"	225.00	49.46'	49.36'	N26°45'22.90"W
C124	013°32'13.90"	225.00	53.16'	53.04'	N39°49'21.75"W
C125	007°41'44.23"	225.00	30.22'	30.20'	N50°26'20.81"W
C126	016°29'31.45"	225.00	64.76'	64.54'	N62°31'58.65"W
C127	012°12'02.30"	225.00	47.91'	47.82'	N76°52'45.52"W
C128	007°01'13.33"	225.00	27.57'	27.55'	N86°29'23.33"W
C129	090°00'00.00"	15.00	23.56'	21.21'	N45°00'00.00"W
C130	090°00'00.00"	15.00	23.56'	21.21'	S45°00'00.00"W
C131	013°35'33.46"	175.00	41.52'	41.42'	S83°12'13.27"W

CURVE TABLE					
CURVE NO.	DELTA	RADIUS	LENGTH	CHORD DISTANCE	CHORD BEARING
C132	015°41'51.59"	175.00	47.95'	47.80'	S68°33'30.74"W
C133	015°41'51.59"	175.00	47.95'	47.80'	S52°51'39.15"W
C134	015°41'51.59"	175.00	47.95'	47.80'	S37°09'47.56"W
C135	015°41'51.59"	175.00	47.95'	47.80'	S21°27'55.97"W
C136	013°37'00.17"	175.00	41.59'	41.49'	S06°48'30.09"W
C137	090°00'00.00"	15.00	23.56'	21.21'	S45°00'00.00"E
C138	090°00'00.00"	15.00	23.56'	21.21'	N45°00'00.00"E
C139	016°36'05.58"	175.00	50.71'	50.53'	S81°41'57.21"E
C141	019°28'16.39"	15.00	5.10'	5.07'	S09°44'08.20"W
C142	019°28'16.39"	15.00	5.10'	5.07'	N09°44'08.20"W
C143	019°51'46.95"	15.00	5.20'	5.17'	S09°55'53.47"W
C144	006°06'44.53"	1165.61	124.35'	124.29'	N86°53'59.82"W
C145	006°27'55.74"	1165.61	131.53'	131.46'	N80°36'39.68"W
C146	016°51'21.38"	15.00	4.41'	4.40'	N01°13'49.84"E
C147	023°07'34.36"	15.00	6.05'	6.01'	S20°13'15.42"W
C148	006°14'10.00"	1265.61	137.75'	137.68'	N80°29'07.50"W
C149	006°21'32.72"	1265.61	140.47'	140.39'	N86°46'58.86"W
C150	019°06'50.33"	15.00	5.00'	4.98'	N09°33'25.17"W
C151	000°36'42.86"	5097.38	54.44'	54.44'	S02°05'46.66"E
C152	000°36'48.25"	5097.38	54.57'	54.57'	S02°42'32.21"E
C153	000°36'48.26"	5097.38	54.57'	54.57'	S03°19'20.46"E
C154	000°36'48.25"	5097.38	54.57'	54.57'	S03°56'08.72"E
C155	000°36'48.25"	5097.38	54.57'	54.57'	S04°32'56.97"E
C156	000°36'48.25"	5097.38	54.57'	54.57'	S05°09'45.22"E
C157	000°36'53.99"	5097.38	54.71'	54.71'	S05°46'36.34"E
C159	004°04'51.30"	725.00	51.64'	51.63'	S03°15'00.01"W
C160	004°07'09.17"	725.00	52.12'	52.11'	S07°21'00.25"W
C161	004°07'09.53"	725.00	52.12'	52.11'	S11°28'09.60"W
C162	004°07'09.17"	725.00	52.12'	52.11'	S15°35'18.95"W
C163	004°07'09.17"	725.00	52.12'	52.11'	S19°42'28.13"W
C164	004°07'09.17"	725.00	52.12'	52.11'	S23°49'37.30"W
C165	004°07'09.53"	725.00	52.12'	52.11'	S27°56'46.65"W
C166	004°07'09.17"	725.00	52.12'	52.11'	S32°03'56.01"W
C167	001°34'37.60"	725.00	19.96'	19.96'	S34°54'49.39"W
C168	018°48'29.62"	135.00	44.32'	44.12'	S45°06'23.00"W
C170	009°52'30.99"	215.00	37.06'	37.01'	S50°02'06.79"W

HORIZONTAL CONTROL CURVE TABLES

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SHEET
C-16

JOB No.: 24062

NOTE: MANHOLES WITH DEPTH OF 12' OR GREATER TO BE COATED PER HCUD REQUIREMENTS, ADDENDUM 2017 SECTION 9 (REVISED OR MONOLITHIC FIBERGLASS REINFORCED PLASTIC).

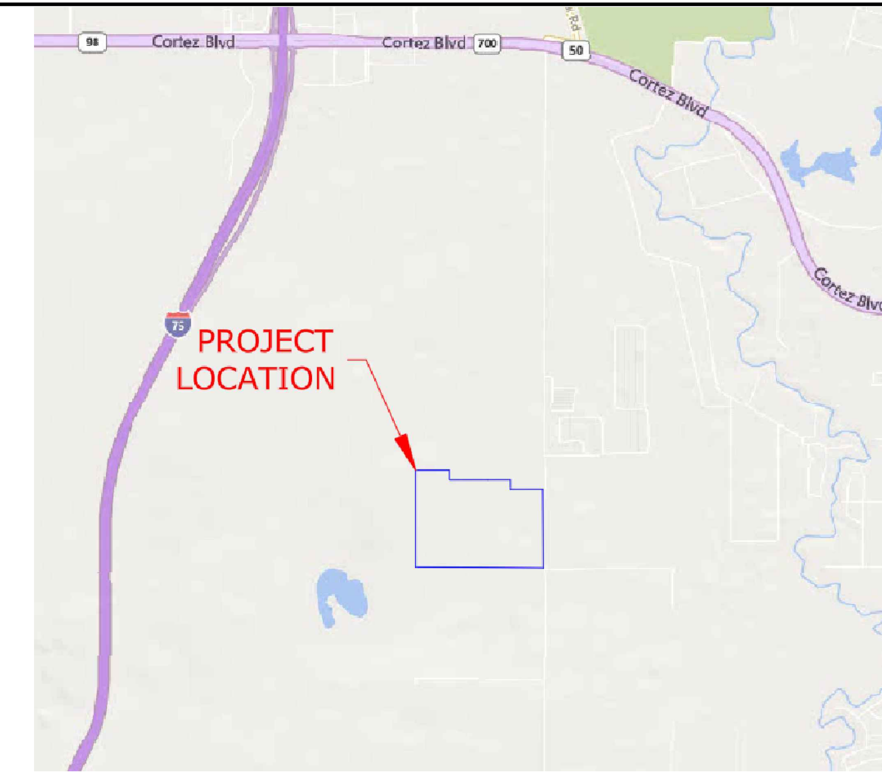
ELECTRICAL DESIGN NOTE:
STREETLIGHT POLES TO BE LOCATED PER COASTAL DETAILS 1 AND 2 ON SHEET C-41

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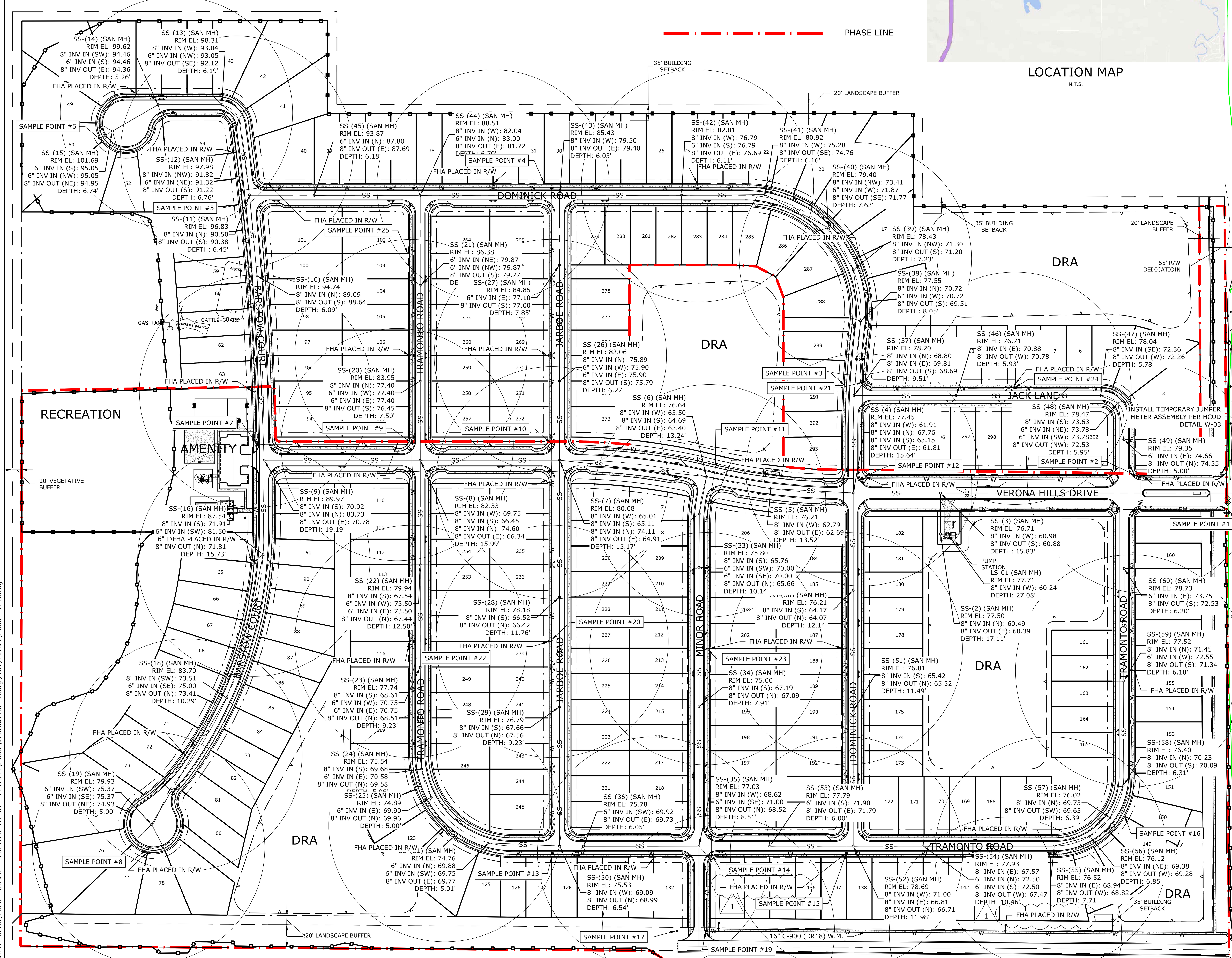
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LEGEND

PHASE LINE



LOCATION MAP
N.T.S.



NOTES:

1) SEE NOTES ON SHEET C-02 FOR ADDITIONAL UTILITY CONSTRUCTION INFORMATION. ALL NEW UTILITIES CONSTRUCTION PROCEDURES AND MATERIALS SHALL MEET OR EXCEED HERNANDO COUNTY UTILITIES DEPARTMENT POTABLE WATER, RECLAIMED WATER & WASTEWATER CONSTRUCTION SPECIFICATIONS MANUAL, LATEST EDITION AS AVAILABLE ON THE INTERNET AT: HTTP://WWW.HERNANDOCOUNTY.US/DEPARTMENTS/DEPARTMENTS-N-Z/UTILITIES/ENGINEERING.

2) LICENSED PLUMBER SHALL MAKE ALL WATER & SEWER CONNECTIONS TO BUILDINGS.

3) SEE UTILITY DETAIL SHEETS FOR UTILITY TRENCH / PIPE BEDDING DETAIL. WHICH REQUIRES INSTALLATION OF 10 GA LOCATE WIRE.

4) WATER MAINS 4" AND ABOVE SHALL BE C-900 PER HCUD SPECIFICATIONS. COLOR CODING OF PIPE SHALL BE BLUE FOR WATER WITH APPROPRIATE NSF MARKINGS, MECHANICAL RESTRAINTS OR THRUST BLOCKS SHALL BE PROVIDED AT ALL BENDS. BENDS SHALL BE 45° UNLESS APPROVED OTHERWISE. SCH80 PVC IN ACCORDANCE W/ FLORIDA PLUMBING CODE MAY BE SUBSTITUTED FOR SDR 26 PVC.

5) SHUT OFF VALVES LESS THAN 4" SHALL HAVE A FULL PORT OPENING, NON-RISING STEM WITH HAND WHEEL, THREAD TO THREAD, AND RESILIENT WEDGE PER HCUD SPECIFICATIONS MANUAL SECTION 3.10.1 FOR GATE VALVES.

6) CONTRACTOR TO NOTIFY HCUD INSPECTOR 48 HOURS PRIOR TO UTILITY CONSTRUCTION IN THE COUNTY RIGHT-OF-WAY. HCUD INSPECTOR MUST BE PRESENT FOR ALL WATER AND SEWER CONNECTIONS.

7) HERNANDO COUNTY UTILITIES DEPARTMENT SHALL NOT OWN, OPERATE OR MAINTAIN ON-SITE WATER AND/OR SEWER UTILITIES LOCATED OUTSIDE OF UTILITY EASEMENTS.

8) COORDINATE LOCATION OF POTABLE WATER SAMPLE POINTS REQUIRED FOR FINAL ACCEPTANCE WITH THE ENGINEER.

9) PVC GRAVITY SEWER, WHERE USED, SHALL CONFORM TO ASTM 3034, FOR SDR 26 WITH BELL & SPIGOT JOINTS.

10) GAS, PHONE, ELECTRIC, CABLE ETC AS MAY BE REQUIRED FOR PROJECT ARE NOT SHOWN WITHIN THESE PLANS. EXCEPT FOR INFORMATION WHICH MAY BE PROVIDED IN MEP PLANS IT SHALL BE CONTRACTOR'S RESPONSIBILITY TO COORDINATE INSTALLATION OF UNDERGROUND FEATURES ASSOCIATED WITH THESE UTILITIES. ALL UTILITIES (INCLUDING WATER & SEWER) SHALL BE INSTALLED PRIOR TO BASE COMPACTION & INSTALLATION OF CURB, SIDEWALKS & ASPHALT UNLESS APPROVED OTHERWISE BY THE OWNER.

11) CONTRACTOR TO SCHEDULE A PRE-CONSTRUCTION MEETING FIVE (5) BUSINESS DAYS PRIOR TO THE START OF OFF-SITE UTILITY CONSTRUCTION. CONTRACTOR MUST PROVIDE ALL UTILITY SUBMITTALS TO THE HCUD INSPECTOR FOR REVIEW AND APPROVAL A MINIMUM OF THREE(3) BUSINESS DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING. HCUD INSPECTOR MUST ATTEND THE PRE-CONSTRUCTION MEETING. CONTACT HCUD AT (352) 540-4368 EXT. 35132. TO SCHEDULE THE PRE-CONSTRUCTION MEETING.

12) CONSTRUCTION WATER TO BE PROVIDE BY A TEMPORARY CONSTRUCTION WATER METER INSTALLED BY HCUD ON THE CLOSEST FIRE HYDRANT TO THE SITE. CONSTRUCTION METERS WILL BE INSTALLED BY HCUD WITHIN FIVE (5) BUSINESS DAYS OF SIGNING UP FOR SERVICE. CONTRACTOR TO CONTACT HCUD'S COMMERCIAL CUSTOMER SERVICE DIVISION TO SIGN UP FOR SERVICE IF CONSTRUCTION WATER IS REQUIRED.

13) ENGINEER/DEVELOPER/CONTRACTOR OR OWNER TO COMPLETE AND DEDICATE ALL OFF-SITE WATER AND SEWER INFRASTRUCTURE TO HERNANDO COUNTY UTILITIES DEPARTMENT (HCUD). CONTACT HCUD TO OBTAIN THE CONTRIBUTED ASSET FORM.

14) CONTRACTOR WILL INSTALL HCUD APPROVED METER BOXES PER HCUD DETAIL W-04.

15) ITEMS REQUIRED FOR HCUD FINAL INSPECTION APPROVAL (FOR CERTIFICATE OF OCCUPANCY):
   A) INSTALLATION AND INSPECTION OF A HCUD APPROVED, UNIVERSITY OF SOUTHERN CALIFORNIA (USC) CERTIFIED AND UNDERWRITER LABORATORIES (UL) APPROVED REDUCED PRESSURE ZONE-BACKFLOW PREVENTION ASSEMBLY (RPZ-BPA) FOR POTABLE, IRRIGATION, AND/OR FIRE SERVICES,
   1) INSTALLED PER CURRENT HCUD BACKFLOW PREVENTION ASSEMBLIES RPZ HCUD DETAIL W-01 & TESTED BY A LICENSED PLUMBER WITH TEST RESULTS PROVIDED TO HCUD'S BPA INSPECTOR.
   2) CONTACT HCUD BPA INSPECTOR AT (352) 540-4368 EXT. 35613 TO ARRANGE A TIME FOR INSPECTION. THIS INSPECTION IS SEPARATE FROM PLUMBING INSPECTION SCHEDULED WITH THE DEVELOPMENT (BUILDING) DEPARTMENT.
   B) SUBMIT A COMPLETED CONTRIBUTED ASSET FORM WITH ITEMIZED MATERIAL COST LIST FOR REVIEW AND APPROVAL.
   C) SUBMIT (2) SETS OF 24"X36" AS-BUILT DRAWINGS AND (2) SETS OF AUTOCAD AS-BUILT CD'S. AS-BUILT DATA MUST BE SHOWN ON THE ORIGINAL SITE/UTILITY PLAN SUBMITTED FOR BUILDING/FDEP PERMIT APPROVAL.
   D) SUBMIT BACTERIOLOGICAL AND PRESSURE TEST, AS REQUIRED BY HCUD AND FDEP.
   E) PROVIDE COPIES OF THE SIGNED AND RECORDED UTILITY EASEMENTS, IF APPLICABLE.

17) HCUD OWNED INFRASTRUCTURE: HCUD PERSONNEL MUST BE PRESENT TO PHYSICALLY VERIFY THAT THE INSTALLATION OF ALL PIPE FITTINGS HAS BEEN DONE PER PLAN BEFORE BURYING. THESE FITTINGS SHALL INCLUDE BUT NOT LIMITED TO: COUPLINGS, RESTRAINT, TEE, 90, 45, 22, 11, AIR RELEASE AND ANY DIVERSIONS FROM A STRAIGHT PIPE RUN. THE HOURS FOR THESE INSPECTIONS SHALL BE BETWEEN 8AM AND 4 PM. IF HCUD HAS NOT INSPECTED THE FITTING BEFORE BURYING THE CONTRACTOR WILL BE RESPONSIBLE FOR UNCOVERING FOR INSPECTION.

18) ALL SITE UTILITIES TO COORDINATE WITH ARCHITECTURAL PLANS FOR LOCATION AND ROUTING OF FREE STANDING SIGN AND SITE LIGHTING.

19) THE HERNANDO COUNTY UTILITY DEPARTMENT (HCUD) IS NOT RESPONSIBLE FRO ANY ONSITE DAMAGE ASSOCIATED WITH THE NORMAL MAINTENANCE OR REPAIR OF ANY HCUD OWNED WATER &/OR SEWER INFRASTRUCTURE. THE OWNER/DEVELOPER IS RESPONSIBLE FOR ALL REPAIRS AND REPLACEMENT TO EXISTING LANDSCAPING, CURB, ASPHALT, CONCRETE, ETC.

20) PIPE RESTRAINTS TO BE INSTALLED PER MANUFACTURER AND HCUD MINIMUM REQUIREMENTS.

21) CONTRACTOR SHALL PROVIDE TEMPORARY BLOW-OFFS AT ENDS OF WATER AND SEWER MAINS.

22) SYMBOLS USED TO REPRESENT FITTINGS ARE NOT TO SCALE AND THEREFORE ARE NOT INTENDED TO SHOW EXACT LOCATIONS. THEY REPRESENT GENERAL LOCATIONS ONLY. AT OR ABOVE GRADE APPURTENANCES (SUCH AS FIRE HYDRANTS, VALVE BOXES, BLOW-OFFS, SAMPLING POINTS, ETC.) ARE NOT TO BE INSTALLED IN PAVED AREAS (INCLUDING SIDEWALKS) WITHOUT WRITTEN APPROVAL BY THE ENGINEER. FINAL LOCATIONS SHOULD BE ADJUSTED AS NECESSARY TO MEET THIS REQUIREMENT WITHOUT ALTERING INTENDED DESIGN.

23) INSTALL FITTINGS OR DEFLECT PIPE (PER MANUFACTURER'S INSTRUCTIONS) TO AVOID CONFLICT. SEE HCUD DETAIL G-06 FOR MINIMUM SEPARATION.

24) RESTRAIN EXISTING WATER SYSTEM CONNECTION POINTS AS NECESSARY (AT A MINIMUM PER COUNTY PIPELINE JOINT RESTRAINT SPECIFICATION DETAIL).

25) FITTINGS SHOWN ARE FOR PLANNING AND BIDDING PURPOSES ONLY CONTRACTOR TO INSTALL FITTINGS AS NECESSARY TO MAINTAIN MINIMUM REQUIRED SEPARATIONS AND FOLLOW PROPOSED ROUTE. PIPE DEFLECTION MAY ALSO BE USED TO MEET THIS REQUIREMENT. NORTHING AND EASTING WHERE SHOWN ARE APPROXIMATE, CONTRACTOR TO FIELD VERIFY LOCATIONS.

26) ALL AFTER HOUR WORK REQUESTS MUST BE SUBMITTED TO HCUD A MINIMUM 6 BUSINESS DAYS (NOT INCLUDING PUBLIC HOLIDAYS AND WEEKENDS) PRIOR TO THE PROPOSED WORK. THE REQUEST MUST FOLLOW HCUD'S REVISED SCHEDULED AFTER HOURS WORK REQUEST SOP DATED 6-10-24 (OR LATEST EDITION). IF AFTER HOURS WORK IS PROPOSED CONTACT HCUD TO RECEIVE THE REVISED SOP PRIOR TO REQUESTING AFTER HOURS WORK.

27) FHA'S TO BE PLACED IN RIGHT-OF-WAY.

28) THE EXISTING UTILITY INFRASTRUCTURE IS SUBJECT TO FIELD VERIFICATION. VERIFICATION OF THE SIZE, LOCATION, DEPTH, MATERIAL TYPE AND ANY OTHER PERTINENT INFORMATION IS THE RESPONSIBILITY OF THE DEVELOPER/EOR/CONTRACTOR PRIOR TO CONSTRUCTION.

29) SEWER CLEAN-OUTS TO BE LOCATED IN CONCRETE (I.E. DRIVEWAYS, SIDEWALKS, ETC.) SHALL BE INSTALLED PER HCUD DETAIL S-06.

30) CONTRACTOR TO STAKE THE UTILITY EASEMENTS/TRACTS THAT WILL CONTAIN HCUD INFRASTRUCTURE PRIOR TO INFRASTRUCTURE INSTALLATION.

31) THE FOLLOWING ITEMS ARE REQUIRED TO TURN ON THE PUMP STATION WATER METER:
   a. INSTALLATION AND INSPECTION OF AN HCUD APPROVED REDUCED PRESSURE ZONE-BACKFLOW PREVENTION ASSEMBLY (RPZ-BPA)
   b. INSTALLED PER CURRENT HCUD BACKFLOW PREVENTION ASSEMBLIES RPZ DETAIL W-01 & TESTED BY A LICENSED PLUMBER WITH TEST RESULTS PROVIDED TO HCUD'S UTILITIES BACKFLOW COORDINATOR WHEN THE WATER METER/SERVICE IS TURNED ON.
   c. CONTACT HCUD'S UTILITIES BACKFLOW COORDINATOR AT (352) 754-4368 EXT. 35613 TO ARRANGE A TIME TO TURN ON THE WATER METER/SERVICE TO ALLOW FOR BPA TESTING AND TO INSPECT THE BPA DEVICE(S). THIS INSPECTION IS SEPARATE FROM THE PLUMBING INSPECTION SCHEDULED WITH THE BUILDING DEPARTMENT.

OVERALL UTILITY PLAN

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EB-0000142

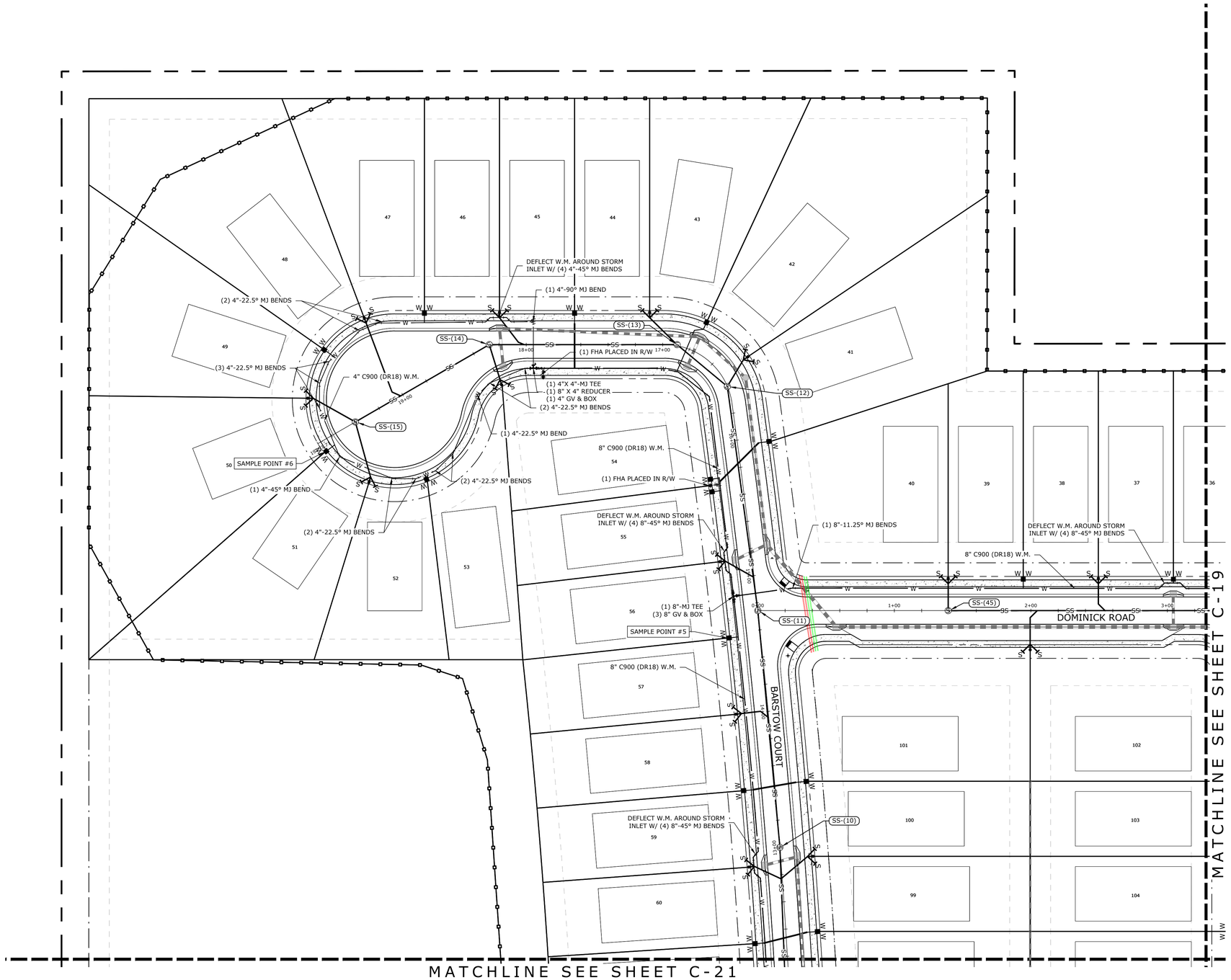
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SHEET
C-17

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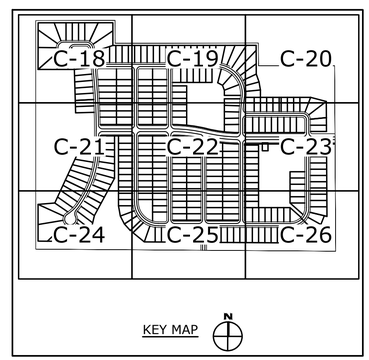
- FIRE HYDRANT ASSEMBLY
- BLOW-OFF ASSEMBLY
- GATE VALVE
- EXISTING GATE VALVE
- DOUBLE WATER SERVICE
- SINGLE WATER SERVICE
- EXISTING SINGLE WATER SERVICE
- DOUBLE SANITARY SERVICE
- SINGLE SANITARY SERVICE
- EXISTING SANITARY CLEANOUT/SERVICE
- SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- SS — GRAVITY SEWER MAIN
- SS — EXISTING GRAVITY SEWER MAIN
- W — WATER MAIN
- W — EXISTING WATER MAIN
- FM — FORCE MAIN
- FM — EXISTING FORCE MAIN
- SS-01 — SANITARY MANHOLE NUMBER
- STORM PIPE
- SILT FENCE
- PHASE LINE

UTILITY SLEEVE LEGEND

- 4" PVC CONDUIT
- 2" PVC CONDUIT

NOTES:

1. ALL INSTALLATIONS SHALL MEET OR EXCEED HERNANDO COUNTY UTILITIES DEPARTMENT SPECIFICATIONS AS DEFINED IN THE WATER AND WASTEWATER CONSTRUCTION SPECIFICATIONS MANUAL, 2013 EDITION / OR LATEST
2. THE EXISTING UTILITY INFRASTRUCTURE IS SUBJECT TO FIELD VERIFICATION. VERIFICATION OF THE SIZE, LOCATION, DEPTH, MATERIAL TYPE AND ANY OTHER PERTINENT INFORMATION IS THE RESPONSIBILITY OF THE DEVELOPER/EOR/CONTRACTOR PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO STAKE PROPOSED UTILITY EASEMENTS PRIOR TO INSTALLATION OF HCUD OWNED INFRASTRUCTURE TO ENSURE UTILITIES ARE INSTALLED WITH PROPER UTILITY EASEMENT LOCATIONS.
4. STREET LIGHTS TO BE INSTALLED PER THE DETAILS PROVIDED ON SHEET C-80 OF THIS CONSTRUCTION PLAN SET.



UTILITY PLAN (1)

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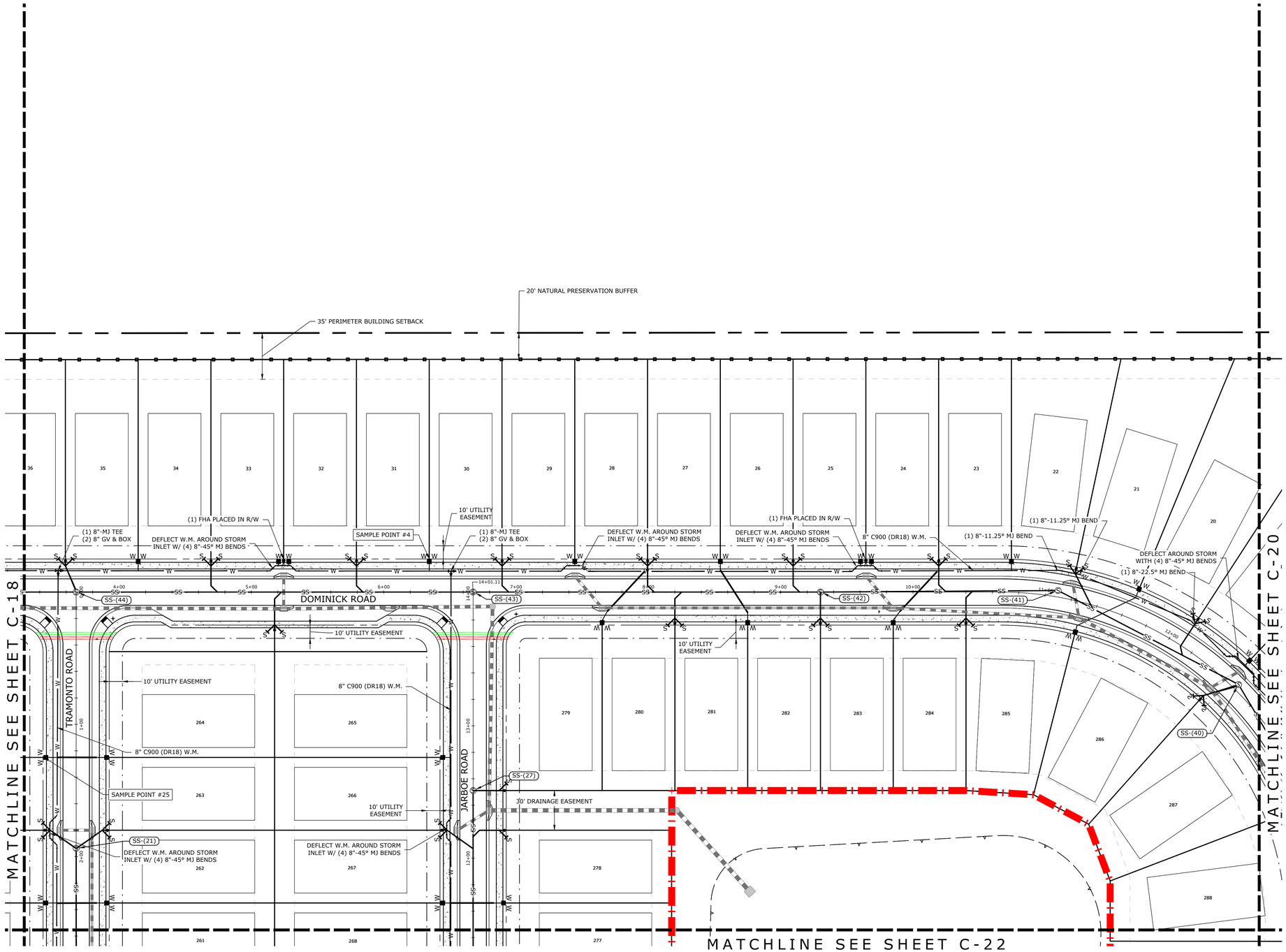
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SHEET
C-18

JOB No.: 24062

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0 40 80 Feet

LEGEND

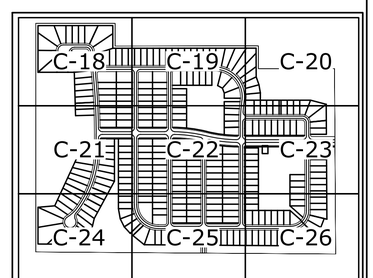
- FIRE HYDRANT ASSEMBLY
- BLOW-OFF ASSEMBLY
- GATE VALVE
- EXISTING GATE VALVE
- DOUBLE WATER SERVICE
- SINGLE WATER SERVICE
- EXISTING SINGLE WATER SERVICE
- DOUBLE SANITARY SERVICE
- SINGLE SANITARY SERVICE
- EXISTING SANITARY CLEANOUT/SERVICE
- SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- GRAVITY SEWER MAIN
- EXISTING GRAVITY SEWER MAIN
- WATER MAIN
- EXISTING WATER MAIN
- FORCE MAIN
- EXISTING FORCE MAIN
- SS-01 SANITARY MANHOLE NUMBER
- STORM PIPE
- SILT FENCE
- PHASE LINE

UTILITY SLEEVE LEGEND

- 4" PVC CONDUIT
- 2" PVC CONDUIT

NOTES:

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4. STREET LIGHTS TO BE INSTALLED PER THE DETAILS PROVIDED ON SHEET C-80 OF THIS CONSTRUCTION PLAN SET.



KEY MAP

UTILITY PLAN (2)

VERONA HILLS

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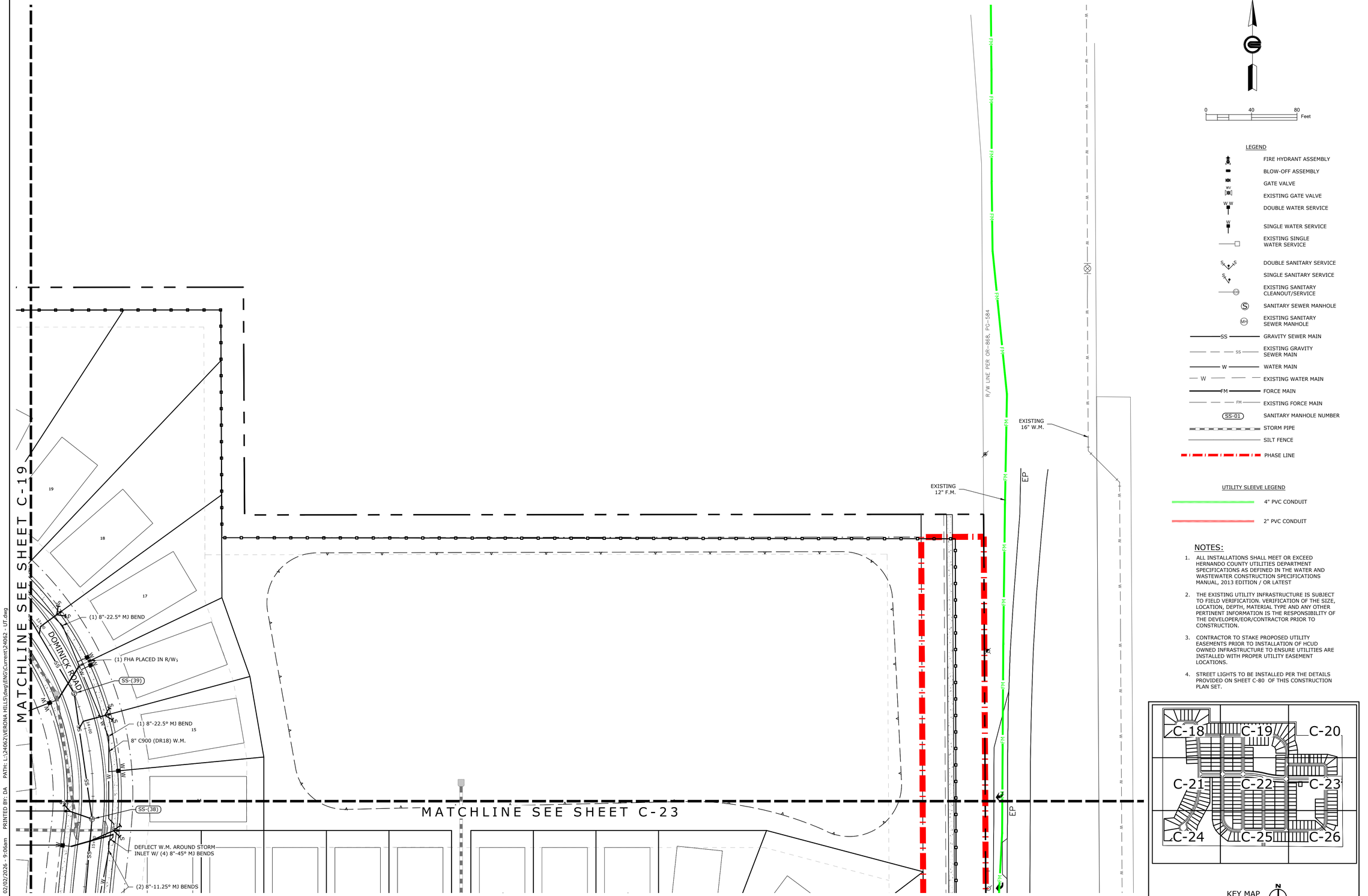
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UTILITY PLAN (3)

VERONA HILLS

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SHEET
C-20

JOB No.: 24062

MATCHLINE SEE SHEET C-18

MATCHLINE SEE SHEET C-22

MATCHLINE SEE SHEET C-24

10' UTILITY EASEMENT

DEFLECT W.M. AROUND STORM INLET W/ (4) 8"-45° MJ BENDS

8" C900 (DR18) W.M.

(1) FHA PLACED IN R/W

BARSTOW COURT

PICKLEBALL COURTS

SAMPLE POINT #7

(1) 8"-MJ TEE
(2) 8" GV & BOX

VERONA HILLS DRIVE

PLAYGROUND

POOL W/ OPEN AIR BATHROOM

INSTALL 1" COMMERCIAL WATER SERVICE PER W-01

(1) 8"-11.25° MJ BEND

(2) 8"-11.25° MJ BENDS

SS-(9)

SS-(16)

SS-(17)

61 62 63 64 65 66 67 68 87 88 89 90 91 92 93 94 95 96 97 98 105 106 107 108 109 110 111 112 113 114 115 116

N

0 40 80 Feet

LEGEND

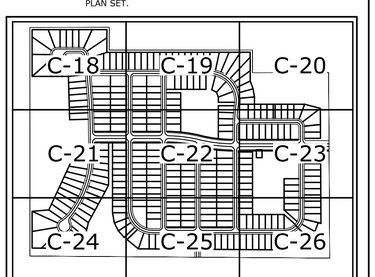
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- BLOW-OFF ASSEMBLY
- GATE VALVE
- EXISTING GATE VALVE
- DOUBLE WATER SERVICE
- SINGLE WATER SERVICE
- EXISTING SINGLE WATER SERVICE
- DOUBLE SANITARY SERVICE
- SINGLE SANITARY SERVICE
- EXISTING SANITARY CLEANOUT/SERVICE
- SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- GRAVITY SEWER MAIN
- EXISTING GRAVITY SEWER MAIN
- WATER MAIN
- EXISTING WATER MAIN
- FORCE MAIN
- EXISTING FORCE MAIN
- SANITARY MANHOLE NUMBER
- STORM PIPE
- SILT FENCE
- PHASE LINE

UTILITY SLEEVE LEGEND

- 4" PVC CONDUIT
- 2" PVC CONDUIT

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KEY MAP

UTILITY PLAN (4)

VERONA HILLS

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SHEET
C-21

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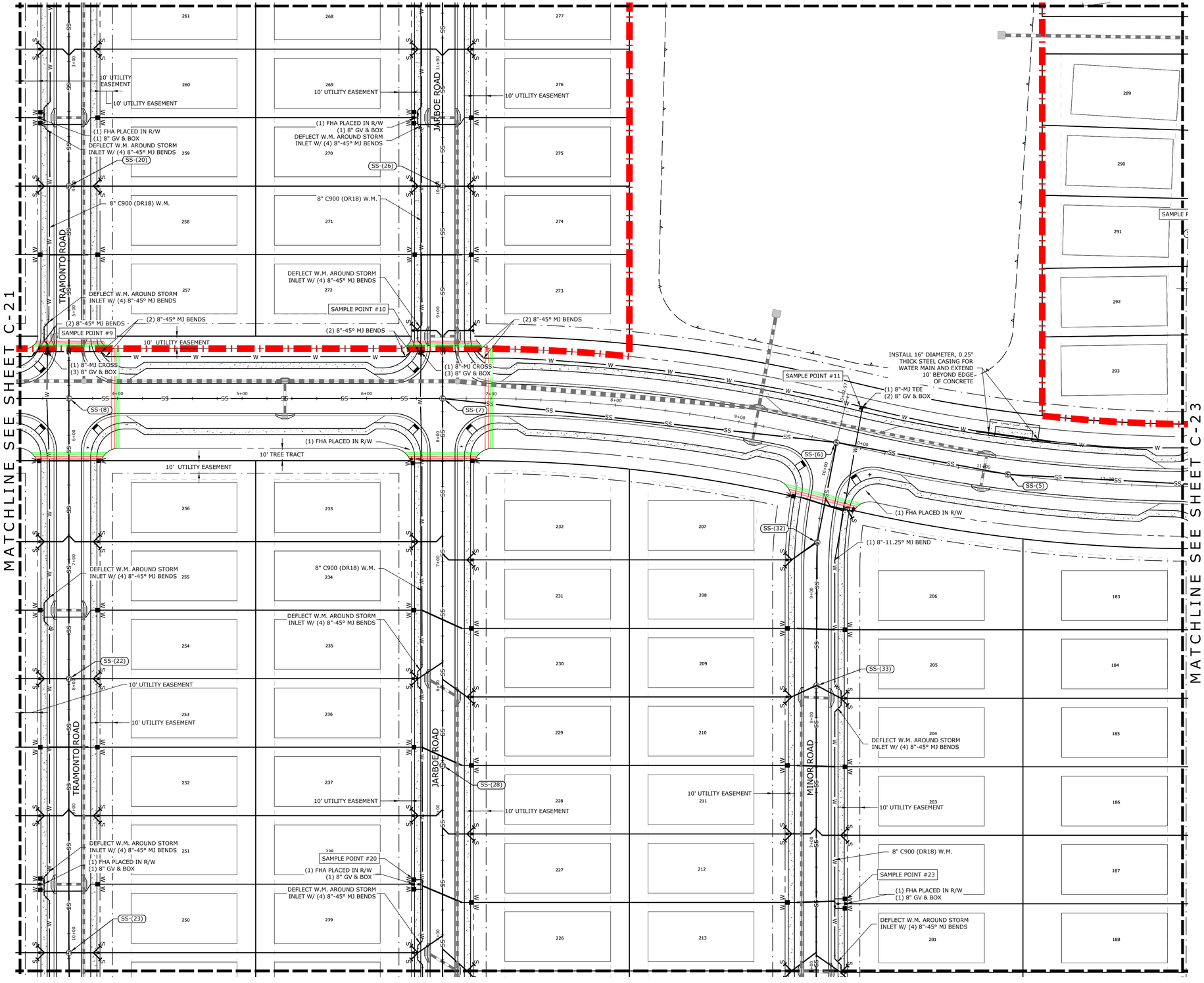
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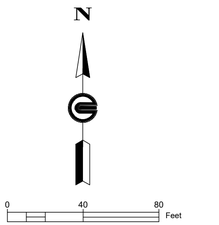
MATCHLINE SEE SHEET C-19

MATCHLINE SEE SHEET C-21

MATCHLINE SEE SHEET C-23

MATCHLINE SEE SHEET C-25





LEGEND

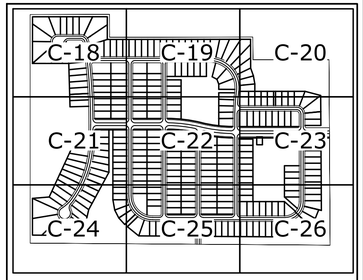
- FIRE HYDRANT ASSEMBLY
- BLOW-OFF ASSEMBLY
- GATE VALVE
- EXISTING GATE VALVE
- DOUBLE WATER SERVICE
- SINGLE WATER SERVICE
- EXISTING SINGLE WATER SERVICE
- DOUBLE SANITARY SERVICE
- SINGLE SANITARY SERVICE
- EXISTING SANITARY CLEANOUT/SERVICE
- SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- GRAVITY SEWER MAIN
- EXISTING GRAVITY SEWER MAIN
- WATER MAIN
- EXISTING WATER MAIN
- FORCE MAIN
- EXISTING FORCE MAIN
- SANITARY MANHOLE NUMBER
- STORM PIPE
- SILT FENCE
- PHASE LINE

UTILITY SLEEVE LEGEND

- 4" PVC CONDUIT
- 2" PVC CONDUIT

NOTES:

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KEY MAP

UTILITY PLAN (5)

VERONA HILLS

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SHEET
C-22

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MATCHLINE SEE SHEET C-20

MATCHLINE SEE SHEET C-22

MATCHLINE SEE SHEET C-26

JACK LANE

VERONA HILLS DRIVE

DOMINICK ROAD

TRAMONTO ROAD

SS-(38)

DEFLECT W.M. AROUND STORM INLET W/ (4) 8"-45° MJ BENDS

(2) 8"-11.25° MJ BENDS

SAMPLE POINT #3

(1) 8"-MJ TEE
(2) 8" GV & BOX

(2) 8"-45° MJ BENDS

SAMPLE POINT #21

SS-(37)

SS-(46)

SS-(47)

SS-(48)

SS-(49)

10' UTILITY EASEMENT

(1) FHA PLACED IN R/W
(1) 8" GV & BOX

SAMPLE POINT #24

8" C900 (DR18) W.M.

(1) 8"-45° MJ BEND

(2) 8"-22.5° MJ BENDS

20' LANDSCAPE BUFFER

SAMPLE POINT #2

(1) 8"-MJ TEE
(2) 8" GV & BOX

(2) 8"-45° MJ BENDS

(3) 8"-45° MJ BENDS

DEFLECT W.M. AROUND STORM INLET W/ (2) 8"-45° MJ BENDS

EXISTING 16" PVC W.M.

EXISTING 12" PVC F.M.

EXISTING EOP

CONNECT TO EXISTING 16" W.M. WITH 16" X 8" TAPPING SLEEVE AND 8" GATE VALVE. CONTRACTOR TO FIELD VERIFY SIZE & LOCATION PRIOR TO CONSTRUCTION. (TEMPORARY WATER CONNECTION PER HCUD DETAIL W-03 TO BE INSTALLED BY CONTRACTOR)

OPEN CUT AND INSTALL 8" W.M. PER HCFDG DETAIL IV-16

SAMPLE POINT #1

INSTALL TEMPORARY JUMPER METER ASSEMBLY PER HCUD DETAIL W-03

CONNECT TO EXISTING 12" F.M. WITH 12" X 4" TAPPING SLEEVE AND 4" GATE VALVE. CONTRACTOR TO FIELD VERIFY SIZE & LOCATION PRIOR TO CONSTRUCTION. (TO BE INSTALLED BY CONTRACTOR)

4" C900 (DR18) F.M.

(1) 8" GV & BOX

SAMPLE POINT #12

(1) FHA PLACED IN R/W

(1) 8"-MJ TEE
(2) 8" GV & BOX

SS-(3)

SS-(4)

(2) 8"-45° MJ BENDS

SS-(2)

LS-01

(2) 4"-45° MJ BENDS

4" C900 (DR18) F.M.

1" WATER SERVICE TO PUMP STATION

LIFT STATION TRACT

SS-(50)

DEFLECT W.M. AROUND STORM INLET W/ (4) 8"-45° MJ BENDS

50' PERIMETER BUILDING SETBACK

SS-(60)

(2) 8"-45° MJ BENDS

10' UTILITY EASEMENT

182

181

180

179

178

177

160

159

158

157

156

161

162

294

295

296

297

298

299

300

301

302

13

12

11

10

9

8

7

6

5

4

3

2

1

0 40 80 Feet

N

LEGEND

- FIRE HYDRANT ASSEMBLY
- BLOW-OFF ASSEMBLY
- GATE VALVE
- EXISTING GATE VALVE
- DOUBLE WATER SERVICE
- SINGLE WATER SERVICE
- EXISTING SINGLE WATER SERVICE
- DOUBLE SANITARY SERVICE
- SINGLE SANITARY SERVICE
- EXISTING SANITARY CLEANOUT/SERVICE
- SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- GRAVITY SEWER MAIN
- EXISTING GRAVITY SEWER MAIN
- WATER MAIN
- EXISTING WATER MAIN
- FORCE MAIN
- EXISTING FORCE MAIN
- SS-01 SANITARY MANHOLE NUMBER
- STORM PIPE
- SILT FENCE
- PHASE LINE

UTILITY SLEEVE LEGEND

- 4" PVC CONDUIT
- 2" PVC CONDUIT

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KEY MAP

C-18 C-19 C-20
C-21 C-22 C-23
C-24 C-25 C-26

UTILITY PLAN (6)

VERONA HILLS

PLAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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MATCHLINE SEE SHEET C-21

MATCHLINE SEE SHEET C-25

DEFLECT W.M. AROUND STORM INLET W/ (4) 8"-45° MJ BENDS

SS-(18)

(1) 8"-11.25° MJ BEND

8" C900 (DR18) W.M.

BARSTOW COURT

10' UTILITY EASEMENT

10' UTILITY EASEMENT

(1) FHA PLACED IN R/W

(1) 8"-11.25° MJ BEND

DEFLECT W.M. AROUND STORM INLET W/ (4) 8"-45° MJ BENDS

(1) 8"X 4"-MJ TEE

(1) 8" GV & BOX

(1) 8"-11.25° MJ BEND

(1) 4"-45° MJ BEND

(1) 8"-45° MJ BEND

(2) 8"-22.5° MJ BENDS

SS-(19)

4" C900 (DR18) W.M.

(2) 4"-22.5° MJ BENDS

(1) 8"-45° MJ BEND

SAMPLE POINT #8

(1) FHA PLACED IN R/W

(1) 8" X 4" REDUCER

(1) 4"-22.5° MJ BEND

(1) 4"-45° MJ BEND

50' R/W DEDICATION

69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 117 118 119 120 121 122

N

0 40 80 Feet

LEGEND

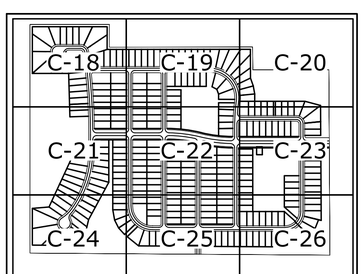
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- EXISTING SINGLE WATER SERVICE
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- SINGLE SANITARY SERVICE
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- SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- GRAVITY SEWER MAIN
- EXISTING GRAVITY SEWER MAIN
- WATER MAIN
- EXISTING WATER MAIN
- FORCE MAIN
- EXISTING FORCE MAIN
- SANITARY MANHOLE NUMBER
- STORM PIPE
- SILT FENCE
- PHASE LINE

UTILITY SLEEVE LEGEND

- 4" PVC CONDUIT
- 2" PVC CONDUIT

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KEY MAP

UTILITY PLAN (7)

VERONA HILLS

PLAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER

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WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET

C-24

JOB No.: 24062

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MATCHLINE SEE SHEET C-22

MATCHLINE SEE SHEET C-24

MATCHLINE SEE SHEET C-26

TRAMONTO ROAD

JARBOE ROAD

MINOR ROAD

SAMPLE POINT #22

8" C900 (DR18) W.M.

DEFLECT W.M. AROUND STORM INLET W/ (4) 8"-45° MJ BENDS

(1) 8"-22.5° MJ BEND

SS-(24)

SS-(25)

(1) 8"-22.5° MJ BEND

(1) FHA PLACED IN R/W

SS-(31)

(1) 8"-22.5° MJ BEND

SS-(30)

SAMPLE POINT #13

(1) 8"-MJ TEE
(2) 8" GV & BOX

SS-(36)

10' UTILITY EASEMENT

DEFLECT W.M. AROUND STORM INLET W/ (4) 8"-45° MJ BENDS

(1) FHA PLACED IN R/W

8" C900 (DR18) W.M.

(2) 8"-45° MJ BENDS

SS-(29)

10' UTILITY EASEMENT

DEFLECT W.M. AROUND STORM INLET W/ (4) 8"-45° MJ BENDS

8" C900 (DR18) W.M.

10' UTILITY EASEMENT

DEFLECT W.M. AROUND STORM INLET W/ (4) 8"-45° MJ BENDS

10' UTILITY EASEMENT

(2) 8"-45° MJ BENDS

10' UTILITY EASEMENT

DEFLECT W.M. AROUND STORM INLET W/ (4) 8"-45° MJ BENDS

SS-(34)

DEFLECT W.M. AROUND STORM INLET W/ (2) 8"-45° MJ BENDS

SS-(53)

SS-(35)

SAMPLE POINT #14

(1) 8"-MJ CROSS
(3) 8" GV & BOX
(2) 8"-45° MJ BENDS

DEFLECT W.M. AROUND STORM INLET W/ (2) 8"-45° MJ BENDS

8" C900 (DR18) W.M.

(1) FHA PLACED IN R/W

16" C900 (DR25) W.M.

(1) 16"X8"-MJ TEE
(1) 8" GV & BOX

(1) PERMANENT BLOW-OFF ASSEMBLY

SAMPLE POINT #17

SAMPLE POINT #19

N

0 40 80 Feet

LEGEND

- FIRE HYDRANT ASSEMBLY
- BLOW-OFF ASSEMBLY
- GATE VALVE
- EXISTING GATE VALVE
- DOUBLE WATER SERVICE
- SINGLE WATER SERVICE
- EXISTING SINGLE WATER SERVICE
- DOUBLE SANITARY SERVICE
- SINGLE SANITARY SERVICE
- EXISTING SANITARY CLEANOUT/SERVICE
- SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- GRAVITY SEWER MAIN
- EXISTING GRAVITY SEWER MAIN
- WATER MAIN
- EXISTING WATER MAIN
- FORCE MAIN
- EXISTING FORCE MAIN
- SANITARY MANHOLE NUMBER
- STORM PIPE
- SILT FENCE
- PHASE LINE

UTILITY SLEEVE LEGEND

- 4" PVC CONDUIT
- 2" PVC CONDUIT

NOTES:

1. ALL INSTALLATIONS SHALL MEET OR EXCEED HERNANDO COUNTY UTILITIES DEPARTMENT SPECIFICATIONS AS DEFINED IN THE WATER AND WASTEWATER CONSTRUCTION SPECIFICATIONS MANUAL, 2013 EDITION / OR LATEST
2. THE EXISTING UTILITY INFRASTRUCTURE IS SUBJECT TO FIELD VERIFICATION. VERIFICATION OF THE SIZE, LOCATION, DEPTH, MATERIAL TYPE AND ANY OTHER PERTINENT INFORMATION IS THE RESPONSIBILITY OF THE DEVELOPER/EOR/CONTRACTOR PRIOR TO CONSTRUCTION.
3. CONTRACTOR TO STAKE PROPOSED UTILITY EASEMENTS PRIOR TO INSTALLATION OF HCUD OWNED INFRASTRUCTURE TO ENSURE UTILITIES ARE INSTALLED WITH PROPER UTILITY EASEMENT LOCATIONS.
4. STREET LIGHTS TO BE INSTALLED PER THE DETAILS PROVIDED ON SHEET C-80 OF THIS CONSTRUCTION PLAN SET.

KEY MAP

C-18 C-19 C-20
C-21 C-22 C-23
C-24 C-25 C-26

UTILITY PLAN (8)

VERONA HILLS

PRELIMINARY NOT FOR CONSTRUCTION
M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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SHEET
C-25

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MATCHLINE SEE SHEET C-23

MATCHLINE SEE SHEET C-25

DOMINICK ROAD

TRAMONTO ROAD

DEFLECT W.M. AROUND STORM INLET W/ (4) 8"-45° MJ BENDS

SS-(51)

8" C900 (DR18) W.M.

N90°00'00.00"E 125.00'

10' UTILITY EASEMENT

SS-(52)

SS-(54)

SS-(55)

SS-(56)

SS-(57)

SS-(58)

SS-(59)

(1) 8"-22.5° MJ BEND

SAMPLE POINT #16

SAMPLE POINT #15

(1) 8"-MJ TEE
(2) 8" GV & BOX
(1) 8" X 6" MJ REDUCER
(1) FHA PLACED IN R/W

(1) FHA PLACED IN R/W
(1) 8" GV & BOX

DEFLECT W.M. AROUND STORM INLET W/ (4) 8"-45° MJ BENDS

16" C900 (DR25) W.M.

(1) FHA PLACED IN R/W

SAMPLE POINT #18

OPEN CUT AND INSTALL 16" W.M. PER HCFDG IV-16

55' R/W DEDICATION

20' LANDSCAPE BUFFER

50' PERIMETER BUILDING SETBACK

EXISTING 16" W.M.

EXISTING 10" F.M.

CONNECT TO EXISTING 16" W.M. WITH 16" X 16" TAPPING SLEEVE AND 16" GATE VALVE. CONTRACTOR TO FIELD VERIFY SIZE & LOCATION PRIOR TO CONSTRUCTION. CONNECTION TO BE MADE AFTER HCUD &FDEP CLEARANCE HAS BEEN ISSUED. (TO BE INSTALLED BY CONTRACTOR)

EP

FM

PM

Lots: 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176

Stations: 2+00, 21+00, 22+00, 23+00, 24+00, 25+00, 26+00, 26+10.76, 30+00, 31+00, 5+00, 6+00, 7+00, 8+00, 9+00, 10+00, 11+00, 12+00, 13+00, 14+00

N

0 40 80 Feet

LEGEND

- FIRE HYDRANT ASSEMBLY
- BLOW-OFF ASSEMBLY
- GATE VALVE
- EXISTING GATE VALVE
- DOUBLE WATER SERVICE
- SINGLE WATER SERVICE
- EXISTING SINGLE WATER SERVICE
- DOUBLE SANITARY SERVICE
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- GRAVITY SEWER MAIN
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- WATER MAIN
- EXISTING WATER MAIN
- FORCE MAIN
- EXISTING FORCE MAIN
- SANITARY MANHOLE NUMBER
- STORM PIPE
- SILT FENCE
- PHASE LINE

UTILITY SLEEVE LEGEND

- 4" PVC CONDUIT
- 2" PVC CONDUIT

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KEY MAP

C-18 C-19 C-20
C-21 C-22 C-23
C-24 C-25 C-26

UTILITY PLAN (9)

VERONA HILLS

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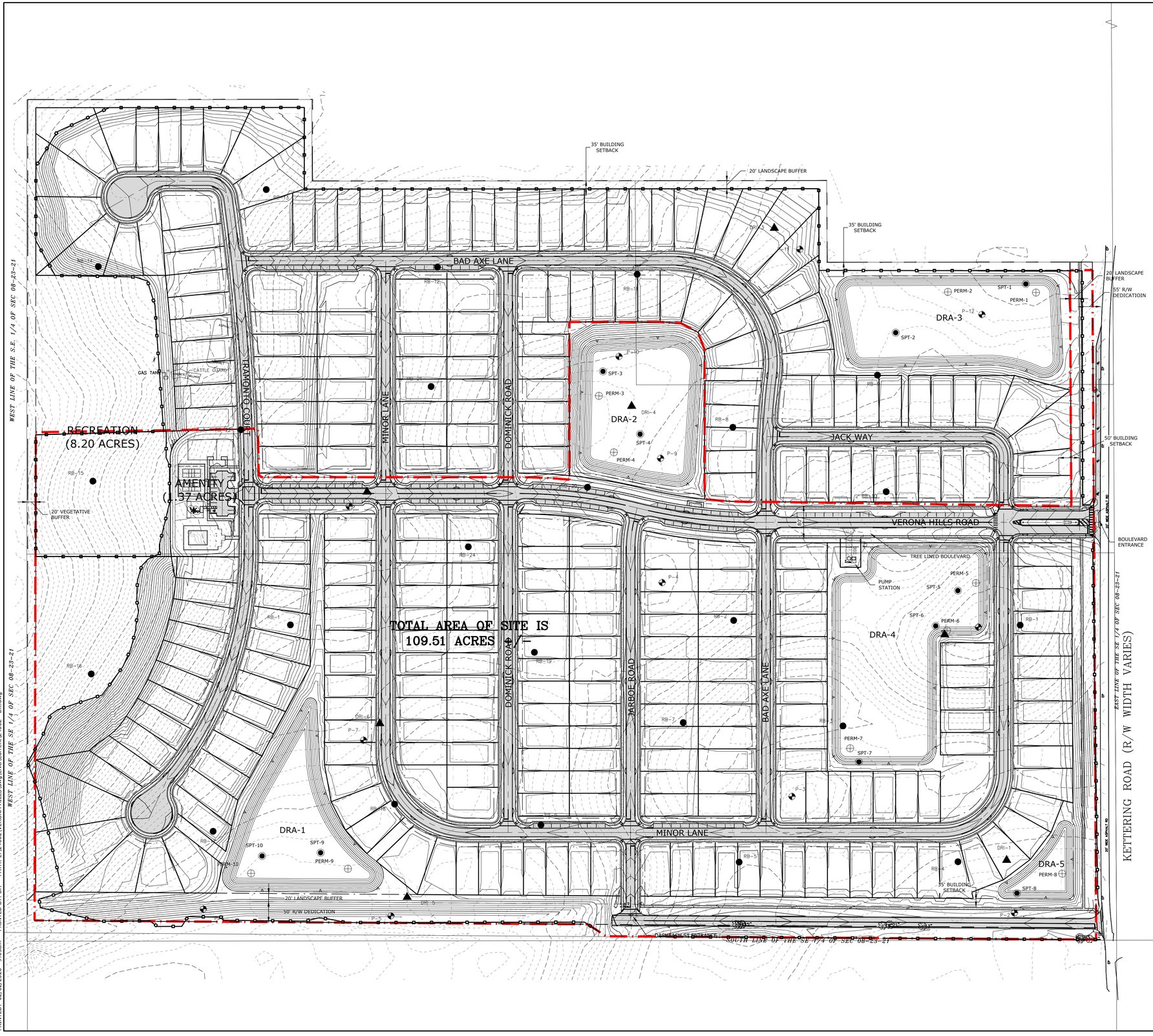
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SHEET
C-26

JOB No.: 24062



MASTER DRAINAGE PLAN

VERONA HILLS

PLANNING LICENSE
BRIAN M. MALMBERG
No. 89405
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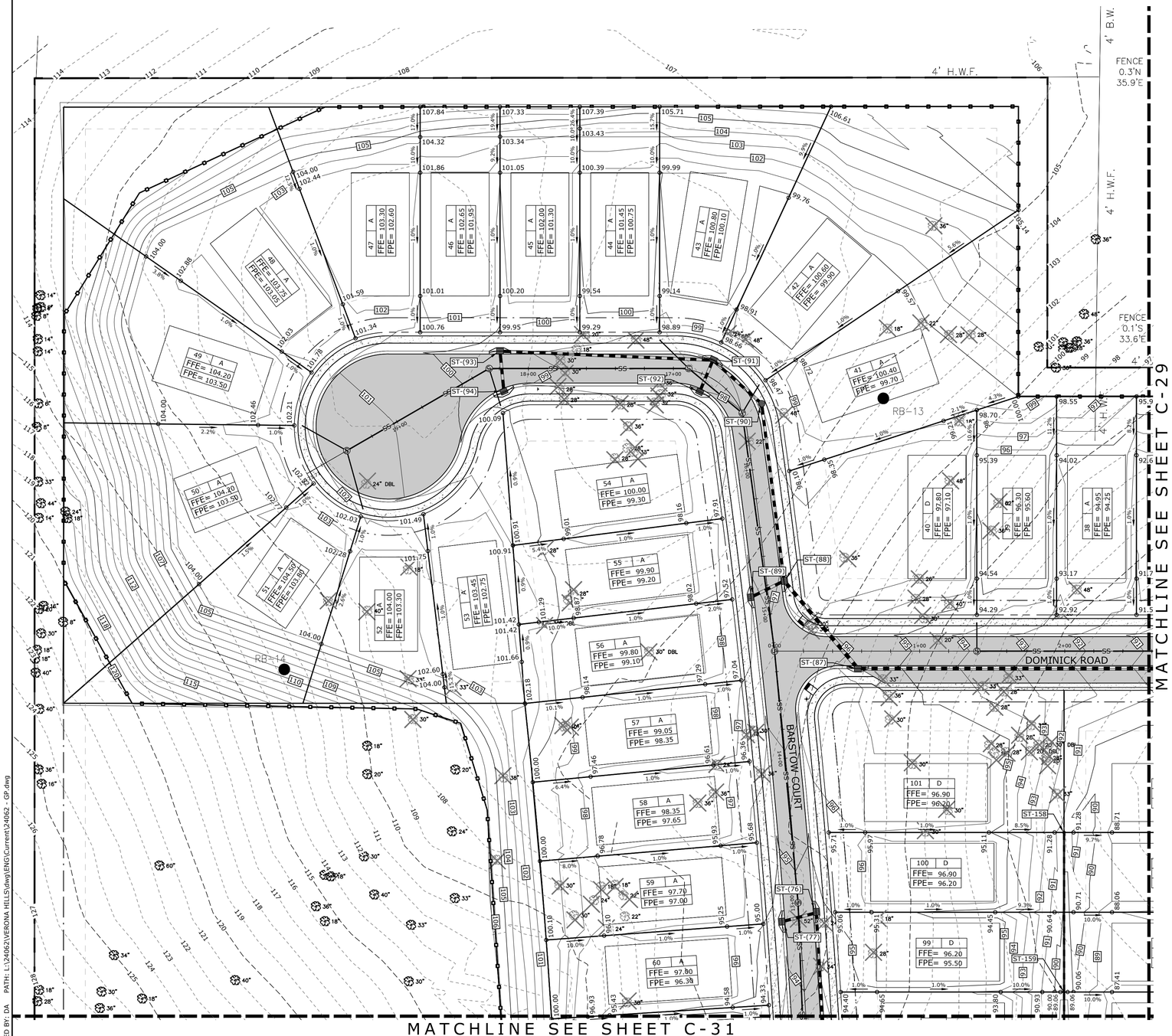
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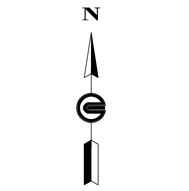
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SHEET
C-27

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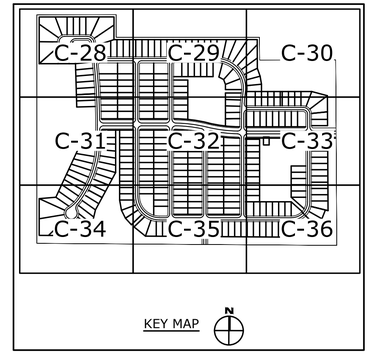


LEGEND

- PHASE LINE
- ST-22 — STORM STRUCTURE NUMBER
- STORM PIPE
- EXISTING STORM PIPE
- SILT FENCE
- 28 — EXISTING CONTOUR LINE
- 28 — PROPOSED CONTOUR LINE
- FLOW ARROW
- 71.75 — PROPOSED SPOT GRADE
- ×29.74 — EXISTING SPOT GRADE
- *LOT NUMBER (* INDICATES STEM WALL REQUIRED)
- 1 A — LOT GRADING TYPE
- FFE= 130.70 — FINISHED FLOOR ELEV.
- FPE= 130.00 — FINISHED PAD ELEV.
- GEOTECH BORING LOCATION
- TREE TO BE SAVED
- TREE TO BE REMOVED

NOTES

1. EXISTING CONTOURS AND ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF NAVD 1988.
2. REFER TO SHEET C-03 FOR BENCHMARK DATA.
3. FUGITIVE DUST SHALL BE CONTROLLED ON SITE. ONLY AREAS SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL BE CLEARED OR STRIPPED OF VEGETATION. WATERING APPLICATION OF APS 605 SILT STOP OR OTHER PRIOR APPROVED MEANS OF DUST CONTROL SHALL BE EMPLOYED TO PREVENT THE EMANATION OF DUST FROM THE SITE. PERMANENT GRASSING, LANDSCAPING AND OTHER SITE WORK SHALL BE INITIATED AS SOON AS POSSIBLE.
4. THE CONTRACTOR IS ADVISED THAT ALL LOTS SHALL BE GRADED TO THE FOLLOWING BASED ON FINISHED FLOOR AND TYPICAL LOT GRADING SCENARIOS SHOWN ON SHEET C-75
5. PAD TERRACE GRADE SHALL BE 0.7' LOWER THAN FINISHED FLOOR ELEVATION.
6. BUILDING PAD AREA REQUIRING MORE THAN TWO (2) FEET OF FILL SHALL BE COMPACTED IN 6" LIFTS TO A MINIMUM DENSITY OF 95% (MAXIMUM PROCTOR DRY DENSITY ASTM-1557). THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER TESTING RESULTS BEFORE CONSTRUCTION IS COMPLETE.
7. LOT GRADING SHALL CONSIST OF NATIVE MATERIAL FREE FROM DEBRIS AND YIELDING CLAYS. EACH LOT SHALL BE TESTED FOR COMPLIANCE WITH PROJECT EARTHWORK SPECIFICATIONS. FINAL LOT GRADING DETAILS AND COMPACTION STANDARDS SHALL BE THE RESPONSIBILITY OF THE BUILDING CONTRACTOR BASED ON FINAL BUILDING PRODUCT SPECIFIED BY CLIENT.
8. ALL SLOPES GRADED AT 4H : 1V OR LESS SHALL BE SODDED.
9. ALL DISTURBED AREAS SHALL BE SEED AND MULCHED OR SODDED. A MINIMUM OF 80% VEGETATIVE GROWTH SHALL BE REQUIRED FOR ACCEPTANCE. CONTRACTORS TO WATER AND FERTILIZE AS REQUIRED TO PROMOTE 80% VEGETATIVE GROWTH.



LOT GRADING & DRAINAGE PLAN (1)

VERONA HILLS

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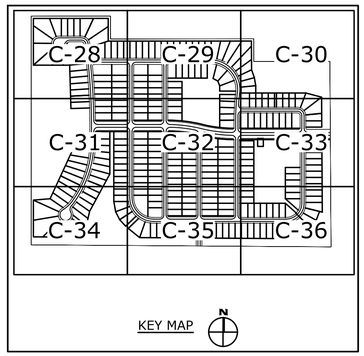
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SHEET
C-28

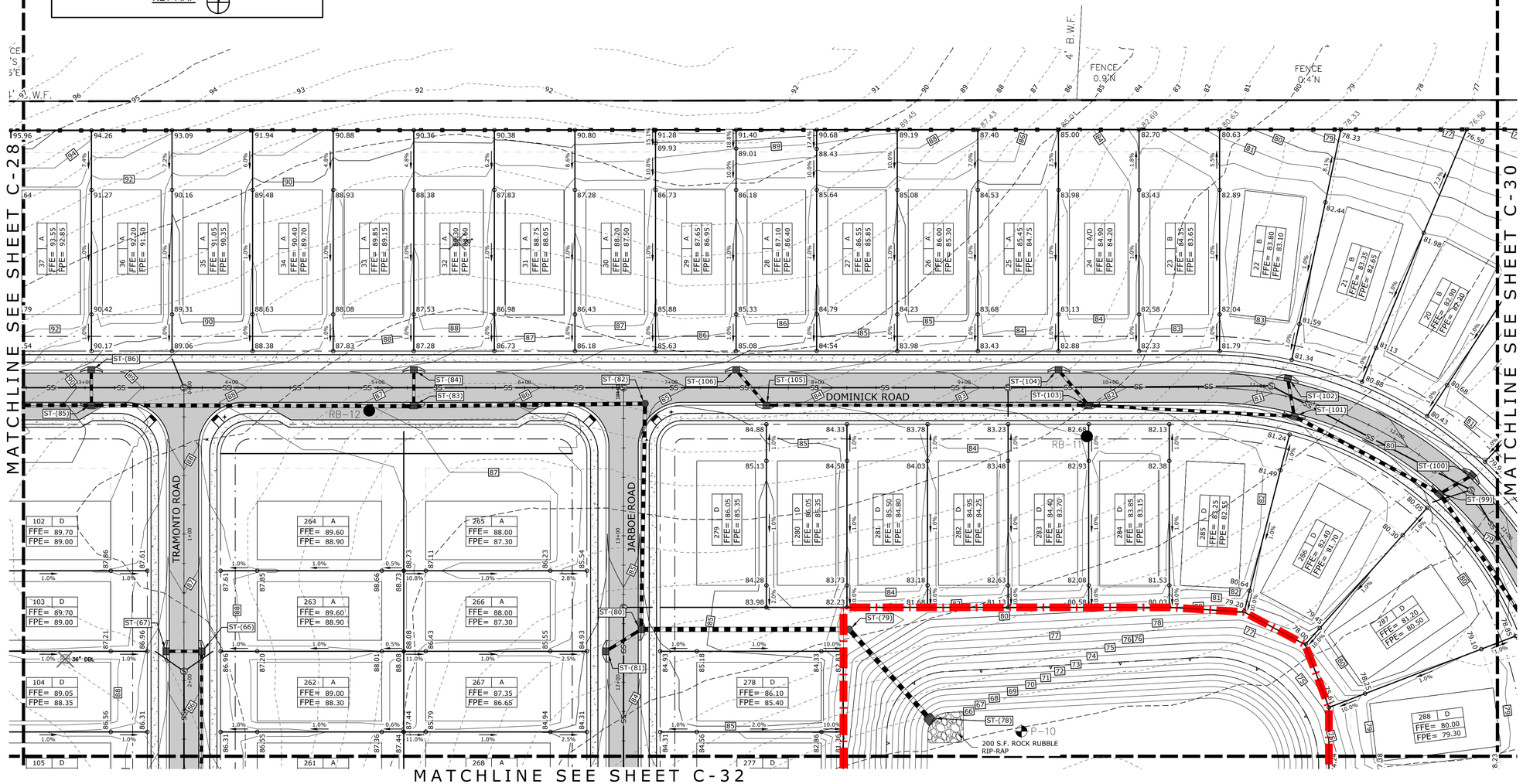
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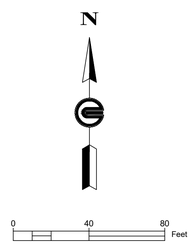
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4. THE CONTRACTOR IS ADVISED THAT ALL LOTS SHALL BE GRADED TO THE FOLLOWING BASED ON FINISHED FLOOR AND TYPICAL LOT GRADING SCENARIOS SHOWN ON SHEET C-75
5. PAD TERRACE GRADE SHALL BE 0.7' LOWER THAN FINISHED FLOOR ELEVATION.
6. BUILDING PAD AREA REQUIRING MORE THAN TWO (2) FEET OF FILL SHALL BE COMPACTED IN 6" LIFTS TO A MINIMUM DENSITY OF 95% (MAXIMUM PROCTOR DRY DENSITY ASTM-1557). THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER TESTING RESULTS BEFORE CONSTRUCTION IS COMPLETE.
7. LOT GRADING SHALL CONSIST OF NATIVE MATERIAL FREE FROM DEBRIS AND YIELDING CLAYS. EACH LOT SHALL BE TESTED FOR COMPLIANCE WITH PROJECT EARTHWORK SPECIFICATIONS. FINAL LOT GRADING DETAILS AND COMPACTION STANDARDS SHALL BE THE RESPONSIBILITY OF THE BUILDING CONTRACTOR BASED ON FINAL BUILDING PRODUCT SPECIFIED BY CLIENT.
8. ALL SLOPES GRADED AT 4H : 1V OR LESS SHALL BE SODDED.
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LEGEND

- PHASE LINE
- ST-22 — STORM STRUCTURE NUMBER
- STORM PIPE
- EXISTING STORM PIPE
- SILT FENCE
- 28 — EXISTING CONTOUR LINE
- 28 — PROPOSED CONTOUR LINE
- FLOW ARROW
- 71.75 — PROPOSED SPOT GRADE
- 29.74 — EXISTING SPOT GRADE
- *LOT NUMBER (* INDICATES STEM WALL REQUIRED)
- 1 A — LOT GRADING TYPE
- FFE= 130.70 — FINISHED FLOOR ELEV.
- FPE= 130.00 — FINISHED PAD ELEV.
- GEOTECH BORING LOCATION
- TREE TO BE SAVED
- TREE TO BE REMOVED

LOT GRADING & DRAINAGE PLAN (2)

VERONA HILLS

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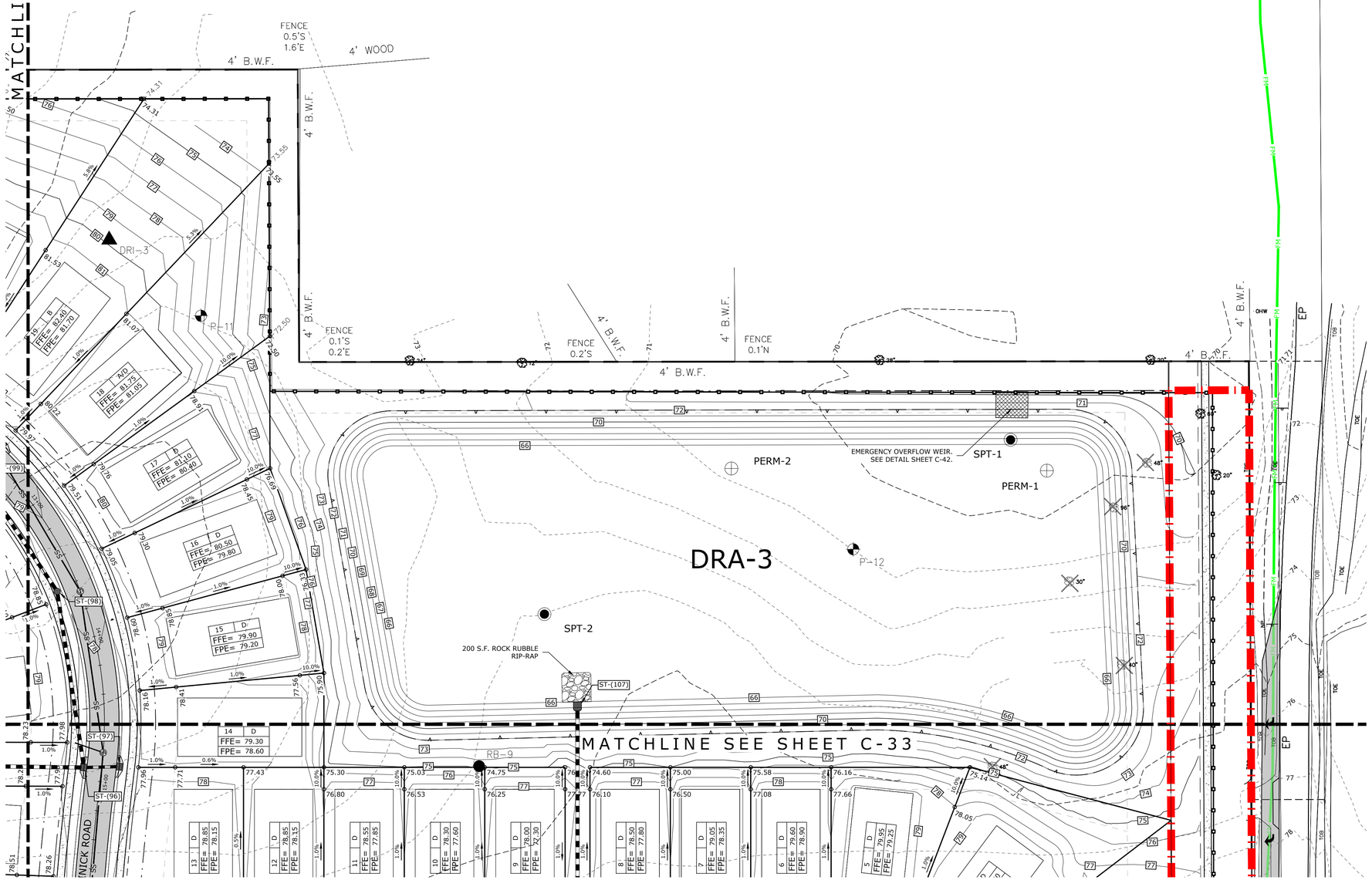
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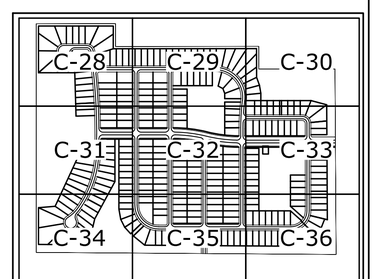
0 40 80 Feet

LEGEND

- PHASE LINE
- ST-22 — STORM STRUCTURE NUMBER
- STORM PIPE
- EXISTING STORM PIPE
- SILT FENCE
- 28 — EXISTING CONTOUR LINE
- 28 — PROPOSED CONTOUR LINE
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- 71.75 — PROPOSED SPOT GRADE
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- *LOT NUMBER (* INDICATES STEM WALL REQUIRED)
- LOT GRADING TYPE
- FFE= 130.70 — FINISHED FLOOR ELEV.
- FPE= 130.00 — FINISHED PAD ELEV.
- GEOTECH BORING LOCATION
- TREE TO BE SAVED
- TREE TO BE REMOVED

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5. PAD TERRACE GRADE SHALL BE 0.7' LOWER THAN FINISHED FLOOR ELEVATION.
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7. LOT GRADING SHALL CONSIST OF NATIVE MATERIAL FREE FROM DEBRIS AND YIELDING CLAYS. EACH LOT SHALL BE TESTED FOR COMPLIANCE WITH PROJECT EARTHWORK SPECIFICATIONS. FINAL LOT GRADING DETAILS AND COMPACTION STANDARDS SHALL BE THE RESPONSIBILITY OF THE BUILDING CONTRACTOR BASED ON FINAL BUILDING PRODUCT SPECIFIED BY CLIENT.
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9. ALL DISTURBED AREAS SHALL BE SEED AND MULCHED OR SODDED. A MINIMUM OF 80% VEGETATIVE GROWTH SHALL BE REQUIRED FOR ACCEPTANCE. CONTRACTORS TO WATER AND FERTILIZE AS REQUIRED TO PROMOTE 80% VEGETATIVE GROWTH.



KEY MAP

LOT GRADING & DRAINAGE PLAN (3)

VERONA HILLS

PLAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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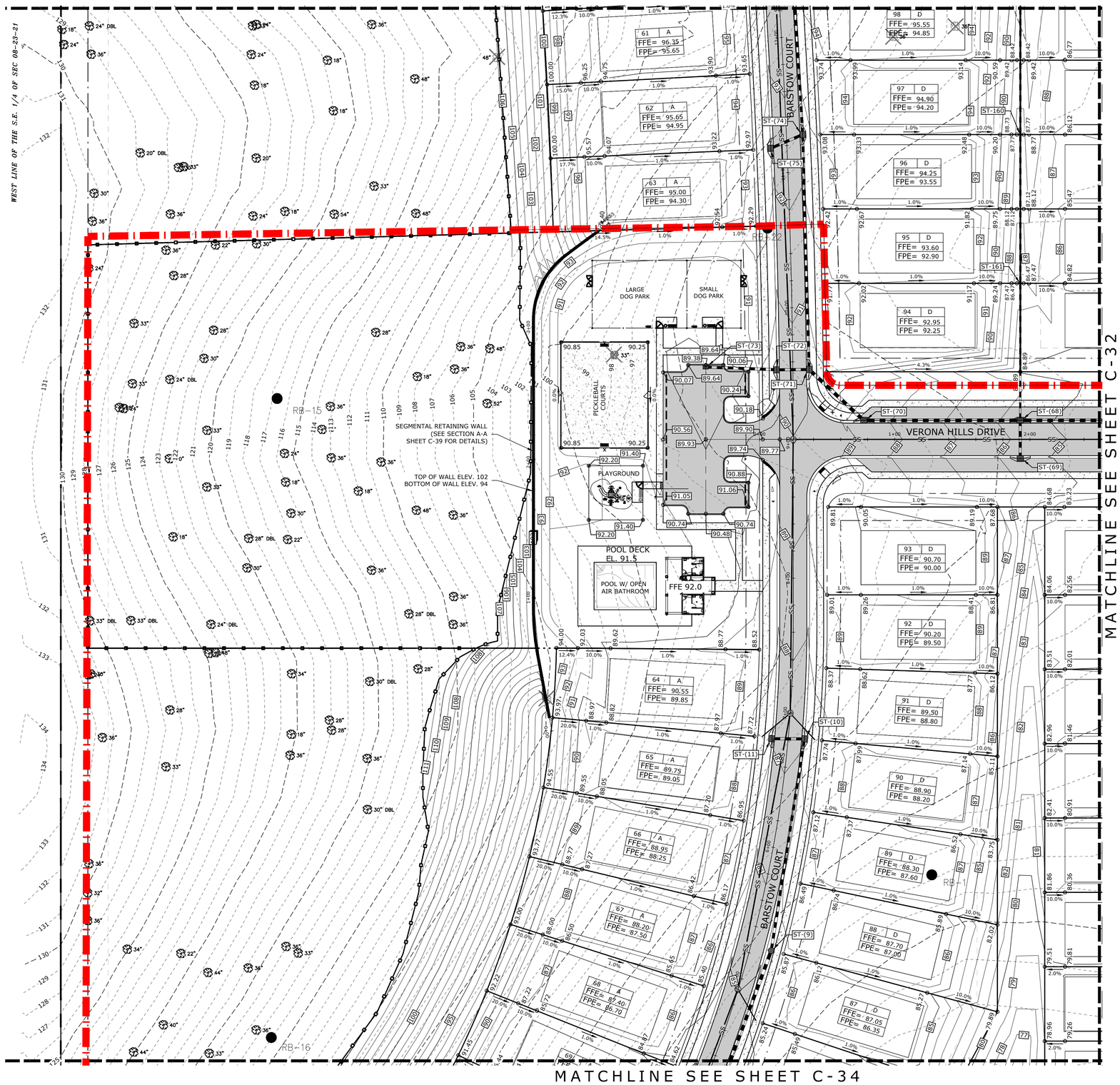
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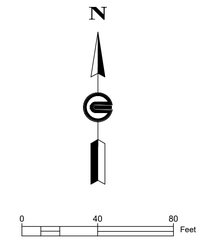
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WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
C-30

JOB No.: 24062



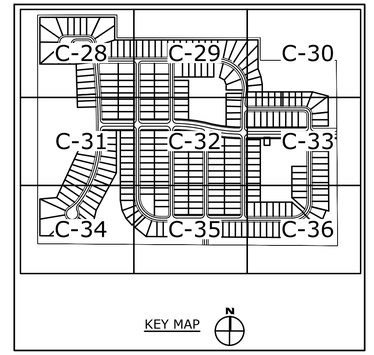


LEGEND

- PHASE LINE
- ST-22 — STORM STRUCTURE NUMBER
- STORM PIPE
- EXISTING STORM PIPE
- SILT FENCE
- 28 — EXISTING CONTOUR LINE
- 28 — PROPOSED CONTOUR LINE
- FLOW ARROW
- 71.75 — PROPOSED SPOT GRADE
- 29.74 — EXISTING SPOT GRADE
- *LOT NUMBER (* INDICATES STEM WALL REQUIRED)
- 1 A / FFE= 130.70 / FPE= 130.00 — LOT GRADING TYPE, FINISHED FLOOR ELEV., FINISHED PAD ELEV.
- GEOTECH BORING LOCATION
- TREE TO BE SAVED
- TREE TO BE REMOVED

NOTES

1. EXISTING CONTOURS AND ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF NAVD 1988.
2. REFER TO SHEET C-03 FOR BENCHMARK DATA.
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5. PAD TERRACE GRADE SHALL BE 0.7' LOWER THAN FINISHED FLOOR ELEVATION.
6. BUILDING PAD AREA REQUIRING MORE THAN TWO (2) FEET OF FILL SHALL BE COMPACTED IN 6" LIFTS TO A MINIMUM DENSITY OF 95% (MAXIMUM PROCTOR DRY DENSITY ASTM-1557). THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER TESTING RESULTS BEFORE CONSTRUCTION IS COMPLETE.
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LOT GRADING & DRAINAGE PLAN (4)

VERONA HILLS

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SHEET
C-31

JOB No.: 24062

MATCHLINE SEE SHEET C-29

MATCHLINE SEE SHEET C-31

MATCHLINE SEE SHEET C-33

MATCHLINE SEE SHEET C-35

TRAMONTO ROAD

JARBOE ROAD

MINOR ROAD

VERONA HILLS DRIVE

DRA-2

SPT-3

SPT-4

PERM-3

PERM-4

DRI-4

DRI-7

P-4

P-9

RB-2

RB-8

RB-20

RB-21

RB-24

200 S.F. ROCK RUBBLE RIP-RAP

(2)-24" RCP PIPES

105	D	FFE= 88.40, FPE= 87.70
106	D	FFE= 87.75, FPE= 87.05
107	D	FFE= 87.10, FPE= 86.40
108	D	FFE= 86.45, FPE= 85.75
109	D	FFE= 85.80, FPE= 85.10
110	A	FFE= 84.15, FPE= 83.45
111	A	FFE= 83.50, FPE= 82.80
112	A	FFE= 82.90, FPE= 82.20
113	A	FFE= 82.35, FPE= 81.65
114	A	FFE= 81.80, FPE= 81.10
115	A/B	FFE= 81.30, FPE= 80.60
116	B	FFE= 80.75, FPE= 80.05
117	B	
256	A	FFE= 84.15, FPE= 83.45
255	A	FFE= 83.50, FPE= 82.80
254	A	FFE= 82.95, FPE= 82.25
253	A	FFE= 82.40, FPE= 81.70
252	A	FFE= 81.85, FPE= 81.15
251	A	FFE= 81.30, FPE= 80.60
250	A	FFE= 80.75, FPE= 80.05
249	A	
261	A	FFE= 88.35, FPE= 87.65
260	A	FFE= 87.75, FPE= 87.05
259	A	FFE= 87.10, FPE= 86.40
258	A	FFE= 86.35, FPE= 85.65
257	A/B	FFE= 85.70, FPE= 85.00
256	A	FFE= 84.15, FPE= 83.45
255	A	FFE= 83.50, FPE= 82.80
254	A	FFE= 82.95, FPE= 82.25
253	A	FFE= 82.40, FPE= 81.70
252	A	FFE= 81.85, FPE= 81.15
251	A	FFE= 81.30, FPE= 80.60
250	A	FFE= 80.75, FPE= 80.05
249	A	
268	A	FFE= 86.70, FPE= 86.00
269	A	FFE= 86.10, FPE= 85.40
270	A	FFE= 85.50, FPE= 84.80
271	A	FFE= 84.90, FPE= 84.20
272	A	FFE= 84.30, FPE= 83.60
233	A	FFE= 82.35, FPE= 81.65
234	A	FFE= 82.05, FPE= 81.35
235	A	FFE= 81.60, FPE= 80.90
236	A	FFE= 81.00, FPE= 80.30
237	A	FFE= 80.70, FPE= 80.00
238	A	FFE= 80.40, FPE= 79.70
239	A	FFE= 80.05, FPE= 79.35
240	A	
277	D	FFE= 85.45, FPE= 84.75
276	D	FFE= 84.85, FPE= 84.15
275	D	FFE= 84.25, FPE= 83.55
274	D	FFE= 83.65, FPE= 82.95
273	D	FFE= 83.05, FPE= 82.35
232	A	FFE= 81.60, FPE= 80.90
231	A	FFE= 81.60, FPE= 80.90
230	A	FFE= 81.25, FPE= 80.55
229	A	FFE= 80.95, FPE= 80.25
228	A	FFE= 80.60, FPE= 79.90
227	A	FFE= 80.30, FPE= 79.60
226	A	FFE= 79.95, FPE= 79.25
207	A	FFE= 79.00, FPE= 78.30
208	A	FFE= 79.00, FPE= 78.30
209	A	FFE= 78.45, FPE= 77.75
210	A	FFE= 78.20, FPE= 77.50
211	A	FFE= 78.20, FPE= 77.50
212	A	FFE= 77.90, FPE= 77.20
213	A	FFE= 77.60, FPE= 76.90
289	D	FFE= 79.40, FPE= 78.70
290	D	FFE= 79.45, FPE= 78.75
291	D	FFE= 79.70, FPE= 79.00
292	D	FFE= 79.60, FPE= 78.90
293	D	FFE= 79.35, FPE= 78.65
206	A	FFE= 78.45, FPE= 77.75
205	A	FFE= 78.45, FPE= 77.75
204	A	FFE= 78.15, FPE= 77.45
203	A	FFE= 77.90, FPE= 77.20
202	A	FFE= 77.65, FPE= 76.95
201	A	FFE= 77.35, FPE= 76.65
183	A	FFE= 79.10, FPE= 78.40
184	A	FFE= 79.10, FPE= 78.40
185	A	FFE= 78.85, FPE= 78.15
186	A	FFE= 78.55, FPE= 77.85
187	A	FFE= 78.55, FPE= 77.85
188	A	FFE= 78.85, FPE= 78.15

ST-(65) ST-(64) ST-(63) ST-(62) ST-(61) ST-(60) ST-(59) ST-(58) ST-(57) ST-(56) ST-(55) ST-(54) ST-(53) ST-(52) ST-(51) ST-(50) ST-(49) ST-(95) ST-(44) ST-(43) ST-(41) ST-(31) ST-(30) ST-(29) ST-(28) ST-(21) ST-(20) ST-(19) ST-(18)

N

0 40 80 Feet

LEGEND

- PHASE LINE
- ST-22 STORM STRUCTURE NUMBER
- STORM PIPE
- EXISTING STORM PIPE
- SILT FENCE
- 28 EXISTING CONTOUR LINE
- 28 PROPOSED CONTOUR LINE
- FLOW ARROW
- 71.75 PROPOSED SPOT GRADE
- ×29.74 EXISTING SPOT GRADE
- *LOT NUMBER (* INDICATES STEM WALL REQUIRED)
- A LOT GRADING TYPE; FFE= 130.70 FINISHED FLOOR ELEV.; FPE= 130.00 FINISHED PAD ELEV.
- GEOTECH BORING LOCATION
- TREE TO BE SAVED
- TREE TO BE REMOVED

NOTES

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KEY MAP

C-28 C-29 C-30
C-31 C-32 C-33
C-34 C-35 C-36

LOT GRADING & DRAINAGE PLAN (5)

VERONA HILLS

BRIAN M. MALMBERG LICENSE No. 89405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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SHEET
C-32

JOB No.: 24062

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MATCHLINE SEE SHEET C-30

MATCHLINE SEE SHEET C-32

MATCHLINE SEE SHEET C-36

DOMINICK ROAD

JACK LANE

VERONA HILLS DRIVE

TRAMONTO ROAD

20' WIDE ASPHALT RD

DRA-4

200 S.F. ROCK RUBBLE RIP-RAP

200 S.F. ROCK RUBBLE RIP-RAP

PERM-5

SPT-5

SPT-6

PERM-6

RB-9

RB-10

RB-1

14	D
FFE=	79.30
FPE=	78.60

13	D
FFE=	78.85
FPE=	78.15

12	D
FFE=	78.85
FPE=	78.15

11	D
FFE=	78.55
FPE=	77.85

10	D
FFE=	78.30
FPE=	77.60

9	D
FFE=	78.00
FPE=	77.30

8	D
FFE=	78.50
FPE=	77.80

7	D
FFE=	79.05
FPE=	78.35

6	D
FFE=	79.60
FPE=	78.90

5	D
FFE=	79.95
FPE=	79.25

4	D
FFE=	80.05
FPE=	79.90

3	A/D
FFE=	81.25
FPE=	80.55

2	A
FFE=	81.80
FPE=	81.10

1	A
FFE=	82.35
FPE=	81.65

294	A
FFE=	79.75
FPE=	79.05

295	A
FFE=	79.75
FPE=	79.05

296	A
FFE=	79.50
FPE=	78.80

297	A
FFE=	79.20
FPE=	78.50

298	A
FFE=	78.95
FPE=	78.25

299	A
FFE=	78.85
FPE=	78.15

300	A
FFE=	79.35
FPE=	78.65

301	A
FFE=	79.95
FPE=	79.25

302	A
FFE=	79.95
FPE=	79.25

182	B
FFE=	79.40
FPE=	78.70

181	B
FFE=	79.10
FPE=	78.40

180	B
FFE=	78.85
FPE=	78.15

179	B
FFE=	78.55
FPE=	77.85

178	B
FFE=	78.55
FPE=	77.85

177	B
FFE=	78.85
FPE=	78.15

161	B
FFE=	80.50
FPE=	79.80

162	B
FFE=	80.25
FPE=	79.55

160	A
FFE=	81.45
FPE=	80.75

159	A
FFE=	80.90
FPE=	80.20

158	A
FFE=	81.15
FPE=	80.45

157	A
FFE=	80.60
FPE=	79.90

156	A
FFE=	80.35
FPE=	79.65

N

0 40 80 Feet

LEGEND

- PHASE LINE
- ST-22 — STORM STRUCTURE NUMBER
- STORM PIPE
- EXISTING STORM PIPE
- SILT FENCE
- 28 — EXISTING CONTOUR LINE
- 28 — PROPOSED CONTOUR LINE
- FLOW ARROW
- 71.75 — PROPOSED SPOT GRADE
- × 29.74 — EXISTING SPOT GRADE
- 1 A / FFE= 130.70 / FPE= 130.00 — *LOT NUMBER (* INDICATES STEM WALL REQUIRED); LOT GRADING TYPE; FINISHED FLOOR ELEV.; FINISHED PAD ELEV.
- GEOTECH BORING LOCATION
- TREE TO BE SAVED
- TREE TO BE REMOVED

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KEY MAP

C-28 C-29 C-30
C-31 C-32 C-33
C-34 C-35 C-36

LOT GRADING & DRAINAGE PLAN (6)

VERONA HILLS

RLA LICENSE BRIAN M. MALMBERG No. 59405 STATE OF FLORIDA PROFESSIONAL LANDSCAPE ARCHITECT

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WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
C-33

JOB No.: 24062

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MATCHLINE SEE SHEET C-31

MATCHLINE SEE SHEET C-35

WEST LINE OF THE SE 1/4 OF SEC 08-23-21

BARSTOW COURT

TRAMONTO ROAD

DRA-1

SPT-10

SPT-9

PERM-10

PERM-9

200 S.F. ROCK RUBBLE RIP-RAP

(2)-24" RCP PIPES

FENCE +0.0'N 0.8'W

4' B.W.F.

OHW

R-6

P-5

P-6

P-7

RB-16

RB-17

LEGEND

- PHASE LINE
- ST-22 — STORM STRUCTURE NUMBER
- STORM PIPE
- EXISTING STORM PIPE
- SILT FENCE
- 28 — EXISTING CONTOUR LINE
- 28 — PROPOSED CONTOUR LINE
- FLOW ARROW
- 71.75 — PROPOSED SPOT GRADE
- 29.1A — EXISTING SPOT GRADE
- *LOT NUMBER (* INDICATES STEM WALL REQUIRED)
- 1 | A — LOT GRADING TYPE
- FFE= 130.70 — FINISHED FLOOR ELEV.
- FPE= 130.00 — FINISHED PAD ELEV.
- GEOTECH BORING LOCATION
- TREE TO BE SAVED
- TREE TO BE REMOVED

0 40 80 Feet

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KEY MAP

C-28 C-29 C-30
C-31 C-32 C-33
C-34 C-35 C-36

LOT GRADING & DRAINAGE PLAN (7)

VERONA HILLS

BRIAN M. MALMBERG — LICENSE — No. 59405 — STATE OF FLORIDA — PROFESSIONAL ENGINEER

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WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
C-34

JOB No.: 24062

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MATCHLINE SEE SHEET C-32

MATCHLINE SEE SHEET C-34

MATCHLINE SEE SHEET C-36

TRAMONTO ROAD

JARBOE ROAD

MINOR ROAD

DASHBACH STREET 80' R/W

OPEN SPACE

PERM-9

200 S.F. ROCK RUBBLE RIP-RAP

(2)-24" RCP PIPES

INSTALL 24 L.F. TYPE "D" CURB

SOUTH LINE OF THE

4' B.W.F.

P-5 P-7 RB-5 RB-6 RB-7 DRI-5

N

0 40 80 Feet

LEGEND

- PHASE LINE
- ST-22 STORM STRUCTURE NUMBER
- STORM PIPE
- EXISTING STORM PIPE
- SILT FENCE
- 28 EXISTING CONTOUR LINE
- 28 PROPOSED CONTOUR LINE
- FLOW ARROW
- 71.75 PROPOSED SPOT GRADE
- 29.74 EXISTING SPOT GRADE
- *LOT NUMBER (* INDICATES STEM WALL REQUIRED)
- 1 A LOT GRADING TYPE
- FFE= 130.70 FINISHED FLOOR ELEV.
- FPE= 130.00 FINISHED PAD ELEV.
- GEOTECH BORING LOCATION
- TREE TO BE SAVED
- TREE TO BE REMOVED

NOTES

1. EXISTING CONTOURS AND ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF NAVD 1988.
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KEY MAP

C-28 C-29 C-30 C-31 C-32 C-33 C-34 C-35 C-36

LOT GRADING & DRAINAGE PLAN (8)

VERONA HILLS

PRELIMINARY NOT FOR CONSTRUCTION

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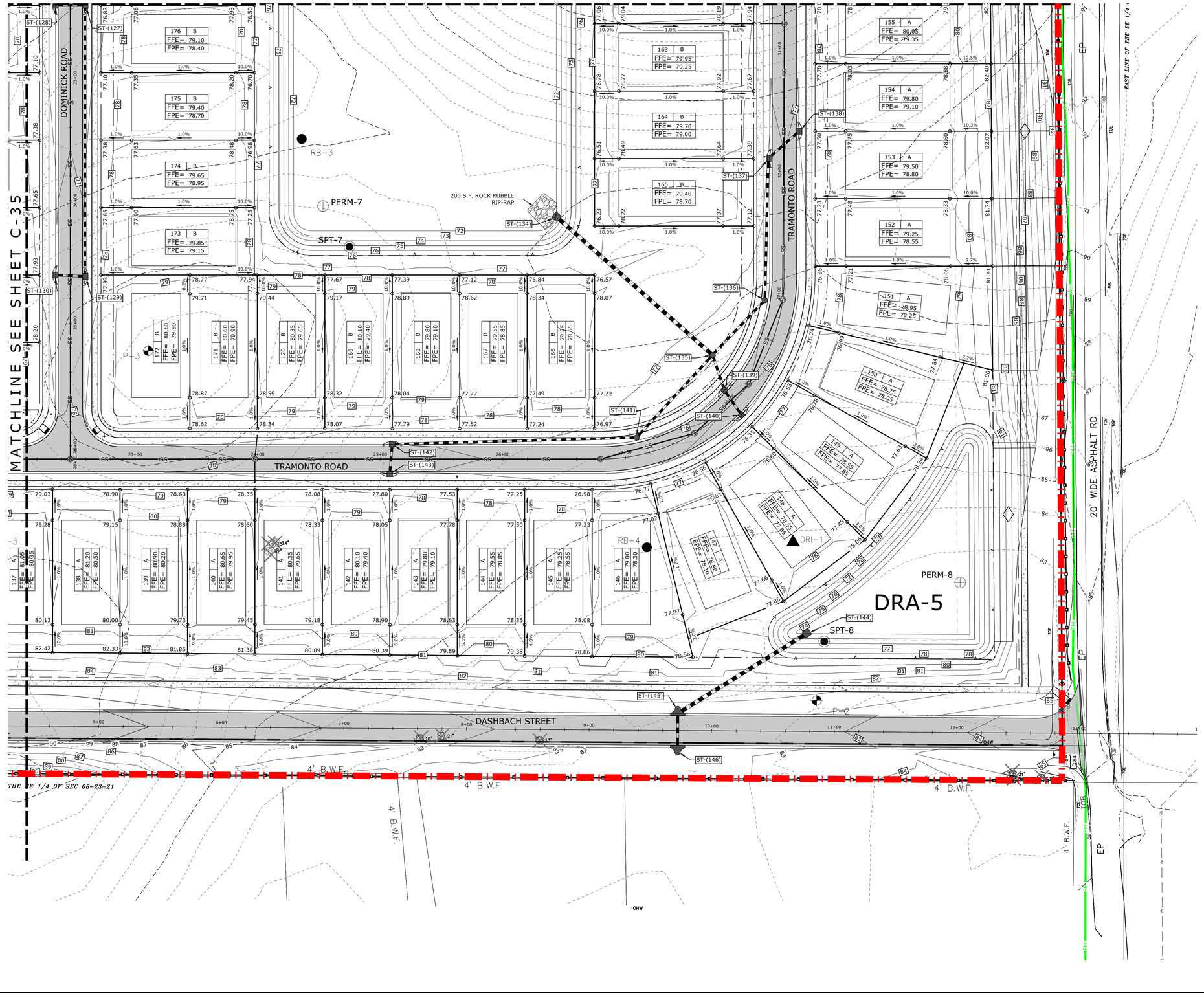
SHEET C-35

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MATCHLINE SEE SHEET C-33

MATCHLINE SEE SHEET C-35



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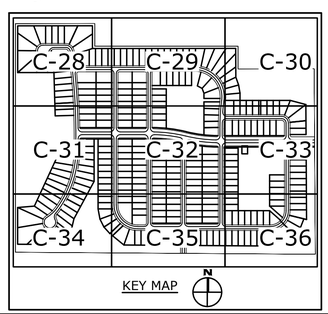
0 40 80 Feet

LEGEND

- PHASE LINE
- ST-22 — STORM STRUCTURE NUMBER
- STORM PIPE
- EXISTING STORM PIPE
- SILT FENCE
- 28 — EXISTING CONTOUR LINE
- 28 — PROPOSED CONTOUR LINE
- FLOW ARROW
- 71.75 — PROPOSED SPOT GRADE
- ×29.14 — EXISTING SPOT GRADE
- *LOT NUMBER (* INDICATES STEM WALL REQUIRED)
- LOT GRADING TYPE
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- FPE= 130.00 — FINISHED PAD ELEV.
- GEOTECH BORING LOCATION
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LOT GRADING & DRAINAGE PLAN (9)

VERONA HILLS

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SHEET
C-36

JOB No.: 24062

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DRAINAGE STRUCTURE & PIPE DATA TABLE

STRUCTURE NO.	TYPE	NORTHING	EASTING	TOP EL (FT)	PIPE(S) IN	PIPE OUT	DOWNSTREAM STRUCTURE	PIPE OUT LENGTH	PIPE OUT SLOPE
ST-(1)	INDEX NO. 430-021 - CROSS DRAIN MES WITH 1:4 SLOPE - SINGLE ROUND CONC. PIPE	1512235.98	583317.88		30'' RCP INV EL=67.00 (NW)				
ST-(2)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512361.12	583160.26	79.85	24''x38'' ERCP INV EL=75.13 (N) 18'' RCP INV EL=71.63 (W)	30'' RCP INV EL=68.00 (SE)	ST-(1)	201 LF	0.50%
ST-(3)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512393.12	583062.26	79.80		18'' RCP INV EL=72.65 (E)	ST-(2)	103 LF	1.00%
ST-(4)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512448.87	583160.43	80.89	24''x38'' ERCP INV EL=76.36 (NE) 18'' RCP INV EL=77.00 (NW)	24''x38'' ERCP INV EL=76.25 (S)	ST-(2)	88 LF	1.29%
ST-(5)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512464.02	583141.62	80.86		18'' RCP INV EL=77.15 (SE)	ST-(4)	24 LF	0.61%
ST-(6)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1512579.16	583251.81	83.05	24'' RCP INV EL=78.25 (NE)	24''x38'' ERCP INV EL=78.25 (SW)	ST-(4)	159 LF	1.20%
ST-(7)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512676.08	583294.07	83.99	24'' RCP INV EL=79.50 (N) 18'' RCP INV EL=79.50 (W)	24'' RCP INV EL=79.50 (SW)	ST-(6)	106 LF	1.20%
ST-(8)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512685.07	583271.89	84.00		18'' RCP INV EL=79.75 (E)	ST-(7)	24 LF	1.04%
ST-(9)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1512775.26	583330.90	85.59	18'' RCP INV EL=80.87 (N)	24'' RCP INV EL=80.75 (S)	ST-(7)	106 LF	1.20%
ST-(10)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512931.85	583355.42	87.13	18'' RCP INV EL=82.75 (W)	18'' RCP INV EL=82.75 (S)	ST-(9)	159 LF	1.20%
ST-(11)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512931.95	583331.40	87.09		18'' RCP INV EL=83.00 (E)	ST-(10)	24 LF	1.04%
ST-(12)	INDEX NO. 430-021 - CROSS DRAIN MES WITH 1:4 SLOPE - SINGLE ROUND CONC. PIPE	1512241.39	583627.68		24'' RCP INV EL=63.00 (NE) 24'' RCP INV EL=63.00 (NE)				
ST-(13)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512358.03	583749.61	74.23	36'' RCP INV EL=64.00 (NE)	24'' RCP INV EL=63.85 (SW) 24'' RCP INV EL=63.85 (SW)	ST-(12) ST-(12)	169 LF 169 LF	0.50% 0.51%
ST-(14)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512375.32	583766.30	74.23	24'' RCP INV EL=69.44 (NW) 36'' RCP INV EL=63.77 (SE)	36'' RCP INV EL=64.29 (SW)	ST-(13)	24 LF	1.21%
ST-(15)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1512452.69	583711.52	75.20	24'' RCP INV EL=70.48 (N)	24'' RCP INV EL=70.62 (SE)	ST-(14)	95 LF	1.25%
ST-(16)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512543.32	583695.11	75.89	18'' RCP INV EL=71.35 (N) 18'' RCP INV EL=71.50 (W)	24'' RCP INV EL=71.17 (S)	ST-(15)	92 LF	0.75%
ST-(17)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512543.32	583671.19	75.89		18'' RCP INV EL=71.75 (E)	ST-(16)	24 LF	1.05%
ST-(18)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512763.32	583695.11	78.09	18'' RCP INV EL=73.55 (N) 18'' RCP INV EL=73.60 (W)	18'' RCP INV EL=73.55 (S)	ST-(16)	220 LF	1.00%
ST-(19)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512763.32	583671.19	78.09		18'' RCP INV EL=73.85 (E)	ST-(18)	24 LF	1.05%
ST-(20)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512983.32	583695.11	80.29	18'' RCP INV EL=75.75 (W)	18'' RCP INV EL=75.75 (S)	ST-(18)	220 LF	1.00%
ST-(21)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512983.42	583671.19	80.29		18'' RCP INV EL=76.00 (E)	ST-(20)	24 LF	1.05%
ST-(22)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1512343.40	583836.85	74.88	36'' RCP INV EL=64.23 (E)	36'' RCP INV EL=64.23 (NW)	ST-(14)	77 LF	0.60%
ST-(23)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1512334.59	583995.15	75.36	24'' RCP INV EL=70.00 (N) 30'' RCP INV EL=65.71 (E)	36'' RCP INV EL=65.18 (W)	ST-(22)	159 LF	0.60%
ST-(24)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512375.05	583995.11	75.14	24'' RCP INV EL=70.34 (N) 18'' RCP INV EL=71.72 (W)	24'' RCP INV EL=70.25 (S)	ST-(23)	40 LF	0.65%
ST-(25)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512375.05	583971.19	75.14		18'' RCP INV EL=71.83 (E)	ST-(24)	24 LF	0.50%
ST-(26)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512473.70	583995.15	75.72	18'' RCP INV EL=71.65 (N) 18'' RCP INV EL=71.75 (NW)	24'' RCP INV EL=71.25 (S)	ST-(24)	99 LF	0.92%
ST-(27)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512488.32	583971.19	75.80		18'' RCP INV EL=71.90 (SE)	ST-(26)	28 LF	0.53%
ST-(28)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512693.70	583995.11	77.01	18'' RCP INV EL=72.95 (N) 18'' RCP INV EL=72.95 (NW)	18'' RCP INV EL=72.95 (S)	ST-(26)	220 LF	0.59%
ST-(29)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512708.32	583971.19	77.09		18'' RCP INV EL=73.15 (SE)	ST-(28)	28 LF	0.71%
ST-(30)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512913.70	583995.11	78.30	18'' RCP INV EL=74.25 (NW)	18'' RCP INV EL=74.25 (S)	ST-(28)	220 LF	0.59%
ST-(31)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512928.32	583971.19	78.38		18'' RCP INV EL=74.50 (SE)	ST-(30)	28 LF	0.89%
ST-(32)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512334.59	584030.57	75.40	30'' RCP INV EL=65.91 (E) 18'' RCP INV EL=71.65 (S)	30'' RCP INV EL=65.90 (W)	ST-(23)	35 LF	0.60%
ST-(33)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512310.67	584020.65	75.51		18'' RCP INV EL=71.80 (N)	ST-(32)	26 LF	0.66%
ST-(34)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1512334.59	584270.95	76.72	30'' RCP INV EL=68.03 (N) 18'' RCP INV EL=72.00 (E) 18'' RCP INV EL=72.64 (S)	30'' RCP INV EL=67.50 (W)	ST-(32)	240 LF	0.66%
ST-(35)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512275.18	584271.13	77.48	18'' RCP INV EL=73.00 (E)	18'' RCP INV EL=73.00 (N)	ST-(34)	59 LF	0.60%
ST-(36)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512275.17	584295.17	77.48		18'' RCP INV EL=73.15 (W)	ST-(35)	24 LF	0.71%
ST-(37)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512334.59	584330.74	77.06	18'' RCP INV EL=72.25 (S)	18'' RCP INV EL=72.25 (W)	ST-(34)	60 LF	0.42%
ST-(38)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512310.67	584330.58	76.97		18'' RCP INV EL=72.50 (N)	ST-(37)	24 LF	1.11%
ST-(39)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512473.74	584271.19	75.54	18'' RCP INV EL=71.00 (E) 24'' RCP INV EL=68.86 (N)	30'' RCP INV EL=68.86 (S)	ST-(34)	139 LF	0.60%
ST-(40)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512472.60	584295.11	75.54		18'' RCP INV EL=71.25 (W)	ST-(39)	24 LF	1.19%

DRAINAGE STRUCTURE & PIPE DATA TABLE

STRUCTURE NO.	TYPE	NORTHING	EASTING	TOP EL (FT)	PIPE(S) IN	PIPE OUT	DOWNSTREAM STRUCTURE	PIPE OUT LENGTH	PIPE OUT SLOPE
ST-(41)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512693.74	584271.19	74.45	18'' RCP INV EL=70.25 (E) 18'' RCP INV EL=70.18 (N)	24'' RCP INV EL=70.18 (S)	ST-(39)	220 LF	0.60%
ST-(42)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512692.63	584295.11	74.45		18'' RCP INV EL=70.50 (W)	ST-(41)	24 LF	1.19%
ST-(43)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512913.74	584271.15	75.56	18'' RCP INV EL=71.50 (E)	18'' RCP INV EL=71.50 (S)	ST-(41)	220 LF	0.60%
ST-(44)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512912.60	584295.15	75.55		18'' RCP INV EL=71.75 (W)	ST-(43)	24 LF	1.18%
ST-(45)	INDEX NO. 430-021 - CROSS DRAIN MES WITH 1:4 SLOPE - SINGLE ROUND CONC. PIPE	1512211.93	583647.72		24'' RCP INV EL=63.00 (SE)				
ST-(46)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1512133.74	583789.62	70.67	18'' RCP INV EL=64.81 (E)	24'' RCP INV EL=63.81 (NW)	ST-(45)	162 LF	0.50%
ST-(47)	INDEX NO. 425-020 - CURB INLET TYPE 4 WITH ROUND BOTTOM	1512124.75	584244.27	80.31	18'' RCP INV EL=75.58 (S)	18'' RCP INV EL=67.08 (W)	ST-(46)	455 LF	0.50%
ST-(48)	INDEX NO. 425-020 - CURB INLET TYPE 4 WITH ROUND BOTTOM	1512089.75	584244.20	80.33		18'' RCP INV EL=75.70 (N)	ST-(47)	35 LF	0.34%
ST-(49)	INDEX NO. 430-021 - CROSS DRAIN MES WITH 1:4 SLOPE - SINGLE ROUND CONC. PIPE	1513220.41	584250.98		24'' RCP INV EL=66.00 (S) 24'' RCP INV EL=66.00 (S)				
ST-(50)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513145.79	584237.01	76.03	36'' RCP INV EL=66.50 (W) 18'' RCP INV EL=69.50 (E) 18'' RCP INV EL=72.52 (S)	24'' RCP INV EL=66.38 (N) 24'' RCP INV EL=66.38 (N)	ST-(49) ST-(49)	76 LF 76 LF	0.50% 0.51%
ST-(51)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513108.91	584420.28	75.87	18'' RCP INV EL=71.00 (S)	18'' RCP INV EL=71.00 (W)	ST-(50)	187 LF	0.80%
ST-(52)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513081.46	584415.08	75.84		18'' RCP INV EL=71.25 (N)	ST-(51)	28 LF	0.89%
ST-(53)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513118.35	584231.84	76.03		18'' RCP INV EL=72.65 (N)	ST-(50)	28 LF	0.45%
ST-(54)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1513167.05	583995.19	79.75	30'' RCP INV EL=70.04 (W) 18'' RCP INV EL=75.25 (N)	36'' RCP INV EL=67.75 (E)	ST-(50)	243 LF	0.51%
ST-(55)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513203.31	583995.11	80.32	18'' RCP INV EL=76.00 (N) 18'' RCP INV EL=76.25 (W)	18'' RCP INV EL=75.75 (S)	ST-(54)	36 LF	1.38%
ST-(56)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513203.32	583971.19	80.32		18'' RCP INV EL=76.50 (E)	ST-(55)	24 LF	1.11%
ST-(57)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513378.74	583995.11	82.47	18'' RCP INV EL=78.50 (W)	18'' RCP INV EL=78.25 (S)	ST-(55)	175 LF	1.28%
ST-(58)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513378.74	583971.19	82.47		18'' RCP INV EL=78.75 (E)	ST-(57)	24 LF	1.05%
ST-(59)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513167.28	583856.59	79.26	30'' RCP INV EL=73.75 (W) 18'' RCP INV EL=75.00 (S)	30'' RCP INV EL=71.09 (E)	ST-(54)	139 LF	0.75%
ST-(60)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513139.36	583856.59	79.26		18'' RCP INV EL=75.25 (N)	ST-(59)	28 LF	0.90%
ST-(61)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1513167.25	583695.20	81.86	24'' RCP INV EL=76.50 (W) 18'' RCP INV EL=77.25 (N)	30'' RCP INV EL=74.70 (E)	ST-(59)	161 LF	0.59%
ST-(62)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513202.74	583695.11	82.32	18'' RCP INV EL=77.75 (N) 18'' RCP INV EL=77.75 (W)	18'' RCP INV EL=77.75 (S)	ST-(61)	35 LF	1.41%
ST-(63)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513202.74	583671.19	82.32		18'' RCP INV EL=78.00 (E)	ST-(62)	24 LF	1.05%
ST-(64)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513378.74	583695.11	84.40	18'' RCP INV EL=79.94 (N) 18'' RCP INV EL=79.85 (W)	18'' RCP INV EL=79.75 (S)	ST-(62)	176 LF	1.15%
ST-(65)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513378.74	583671.19	84.40		18'' RCP INV EL=80.10 (E)	ST-(64)	24 LF	1.05%
ST-(66)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513543.71	583695.11	86.34	18'' RCP INV EL=81.75 (W)	18'' RCP INV EL=81.75 (S)	ST-(64)	165 LF	1.10%
ST-(67)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513543.78	583671.19	86.34		18'' RCP INV EL=82.00 (E)	ST-(66)	24 LF	1.05%
ST-(68)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513167.32	583515.04	85.50	24'' RCP INV EL=80.80 (W) 18'' RCP INV EL=81.00 (S) 15'' PVC INV EL=81.86 (N)	24'' RCP INV EL=79.42 (E)	ST-(61)	180 LF	1.64%
ST-(69)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513139.32	583515.09	85.50		18'' RCP INV EL=81.25 (N)	ST-(68)	28 LF	1.00%
ST-(70)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513167.28	583399.34	88.50	24'' RCP INV EL=83.75 (NW)	24'' RCP INV EL=81.94 (E)	ST-(68)	116 LF	1.00%
ST-(71)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513205.01	583358.85	90.39	18'' RCP INV EL=86.46 (N) 18'' RCP INV EL=86.40 (W)	24'' RCP INV EL=84.20 (SE)	ST-(70)	55 LF	0.81%
ST-(72)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513204.76	583334.92	90.38	18'' RCP INV EL=86.65 (W)	18'' RCP INV EL=86.65 (E)	ST-(71)	24 LF	1.04%
ST-(73)	INDEX NO. 425-052 - DITCH BOTTOM INLET - TYPE C	1513206.82	583282.47	90.71		18'' RCP INV EL=89.00 (E)	ST-(72)	52 LF	4.61%
ST-(74)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513378.74	583354.12	92.47	18'' RCP INV EL=88.61 (N) 18'' RCP INV EL=88.35 (SW)	18'' RCP INV EL=88.35 (S)	ST-(71)	174 LF	1.10%
ST-(75)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513368.62	583330.57	92.36		18'' RCP INV EL=88.60 (NE)	ST-(74)	26 LF	1.04%
ST-(76)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513543.99	583344.25	94.45	18'' RCP INV EL=90.40 (W)	18'' RCP INV EL=90.40 (S)	ST-(74)	166 LF	1.10%
ST-(77)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513537.28	583320.76	94.39		18'' RCP INV EL=90.65 (E)	ST-(76)	24 LF	1.03%
ST-(78)	INDEX NO. 430-021 - CROSS DRAIN MES WITH 1:4 SLOPE - SINGLE ROUND CONC. PIPE	1513498.17	584191.55		30'' RCP INV EL=66.00 (NW)				
ST-(79)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1513558.74	584137.12	82.50	30'' RCP INV EL=76.35 (W)	30'' RCP INV EL=66.40 (SE)	ST-(78)	81 LF	0.52%
ST-(80)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513558.74	583995.11	84.48	24'' RCP INV EL=78.69 (N) 18'' RCP INV EL=80.25 (SW)	30'' RCP INV EL=77.75 (E)	ST-(79)	142 LF	1.00%

NOTES:
1. NORTHING & EASTING REPRESENTS CENTER OF STRUCTURE OR INVERT OF MES.
2. TOP ELEVATIONS FOR GUTTER INLET TYPE V = EDGE OF PAVEMENT ELEVATION.
3. TOP ELEVATIONS FOR CURB INLETS = TOP OF BACK OF CURB AT STRUCTURE LOCATION, FOR MANHOLES AND DROP INLETS = TOP OF RIM OR GRATE
4. ALL DRAINAGE STRUCTURES IN PAVED AREAS SHALL INCLUDE H-20 TRAFFIC BEARING STEEL GRATES PER FDOT INDEX 425-052.
5. ALL DRAINAGE STRUCTURES, INCLUDING END TREATMENTS, SHALL BE PER FDOT STANDARDS FOR THE TYPE DESIGNATED (I.E. TYPE FES = FDOT INDEX 430-020) UNLESS APPROVED OTHERWISE. YARD INLETS ARE EXCLUDED FROM FDOT STANDARDS.
6. DRAINAGE PIPE UNDER PAVING SHALL BE REINFORCED CONCRETE PER FDOT SPECIFICATIONS SECTION 430 UNLESS APPROVED OTHERWISE.
7. CORRUGATED POLYETHYLENE, CORRUGATED POLYPROPYLENE, OR CORRUGATED POLYVINYL CHLORIDE PIPE, MEETING FDOT SPECIFICATIONS 430 AND 948 SHALL BE ALLOWED FOR AREAS NOT UNDER PAVING & WITH LESS THAN 4' OF COVER.
8. ALL PIPE LENGTHS ARE APPROXIMATE AND INCLUDE THE END SECTIONS. ACTUAL LENGTH MAY VARY SLIGHTLY BASED ON STRUCTURE INSTALLATION.
9. ALL PIPE JOINTS TO BE FILTER FABRIC WRAPPED PER FDOT SPECIFICATIONS SECTION 430-001.
10. ALL PIPES WITHIN HERNANDO COUNTY RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO FDOT SPECIFICATION 430. UNLESS APPROVED BY VARIANCE TO INCLUDE POLYPROPYLENE PIPE.

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DRAINAGE STRUCTURES AND PIPE CHART (1)

VERONA HILLS

BRIAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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DATE	REV. BY	REV. NO.	REVISION
02/02/26	DG	1	REVISED PER COUNTY COMMENTS

WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
C-37

JOB No.: 24062

DRAINAGE STRUCTURE & PIPE DATA TABLE

STRUCTURE NO.	TYPE	NORTHING	EASTING	TOP EL (FT)	PIPE(S) IN	PIPE OUT	DOWNSTREAM STRUCTURE	PIPE OUT LENGTH	PIPE OUT SLOPE
ST-(81)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513543.74	583971.19	84.31		18'' RCP INV EL=80.50 (NE)	ST-(80)	28 LF	0.88%
ST-(82)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1513712.87	583997.85	85.08	24'' RCP INV EL=80.24 (W)	24'' RCP INV EL=80.00 (S)	ST-(80)	154 LF	0.85%
ST-(83)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513711.79	583839.97	86.58	24'' RCP INV EL=81.54 (W) 18'' RCP INV EL=82.75 (N)	24'' RCP INV EL=81.19 (E)	ST-(82)	158 LF	0.60%
ST-(84)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513735.70	583840.04	86.66		18'' RCP INV EL=82.90 (S)	ST-(83)	24 LF	0.69%
ST-(85)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513711.79	583620.00	89.46	24'' RCP INV EL=84.77 (W) 18'' RCP INV EL=85.65 (N)	24'' RCP INV EL=84.27 (E)	ST-(83)	220 LF	1.25%
ST-(86)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513735.70	583619.85	89.55		18'' RCP INV EL=85.80 (S)	ST-(85)	24 LF	0.71%
ST-(87)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513711.79	583373.00	95.62	24'' RCP INV EL=91.25 (NW)	24'' RCP INV EL=90.90 (E)	ST-(85)	247 LF	2.50%
ST-(88)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513772.17	583322.11	96.96	18'' RCP INV EL=92.35 (N) 18'' RCP INV EL=92.60 (SW)	24'' RCP INV EL=92.02 (SE)	ST-(87)	79 LF	0.97%
ST-(89)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513760.89	583299.34	96.90		18'' RCP INV EL=92.85 (NE)	ST-(88)	25 LF	0.98%
ST-(90)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1513894.34	583306.68	98.09	18'' RCP INV EL=93.18 (NW)	18'' RCP INV EL=93.08 (S)	ST-(88)	123 LF	0.59%
ST-(91)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513924.75	583273.33	98.04	18'' RCP INV EL=94.00 (W) 18'' RCP INV EL=94.00 (SW)	18'' RCP INV EL=93.45 (SE)	ST-(90)	45 LF	0.60%
ST-(92)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513902.60	583264.04	98.04		18'' RCP INV EL=94.15 (NE)	ST-(91)	24 LF	0.62%
ST-(93)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513930.54	583126.39	99.35	18'' RCP INV EL=95.00 (S)	18'' RCP INV EL=95.00 (E)	ST-(91)	147 LF	0.68%
ST-(94)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513902.84	583129.06	99.33		18'' RCP INV EL=95.15 (N)	ST-(93)	28 LF	0.54%
ST-(95)	INDEX NO. 430-021 - CROSS DRAIN MES WITH 1:4 SLOPE - SINGLE ROUND CONC. PIPE	1513444.94	584432.95		24'' RCP INV EL=66.00 (E)				
ST-(96)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513442.50	584617.84	77.34	24'' RCP INV EL=71.75 (N) 18'' RCP INV EL=73.35 (E)	24'' RCP INV EL=67.00 (W)	ST-(95)	185 LF	0.54%
ST-(97)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513443.12	584642.03	77.34		18'' RCP INV EL=73.60 (W)	ST-(96)	24 LF	1.03%
ST-(98)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1513563.02	584599.49	78.59	24'' RCP INV EL=73.07 (NW)	24'' RCP INV EL=72.95 (S)	ST-(96)	122 LF	0.98%
ST-(99)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513651.35	584540.33	79.42	24'' RCP INV EL=74.68 (NW) 18'' RCP INV EL=75.35 (NE)	24'' RCP INV EL=74.15 (SE)	ST-(98)	106 LF	1.02%
ST-(100)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513663.78	584562.14	79.34		18'' RCP INV EL=75.60 (SW)	ST-(99)	25 LF	1.00%
ST-(101)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513704.31	584441.00	80.62	18'' RCP INV EL=75.81 (W) 18'' RCP INV EL=76.75 (N)	24'' RCP INV EL=75.81 (SE)	ST-(99)	113 LF	1.00%
ST-(102)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513729.94	584436.51	80.72		18'' RCP INV EL=77.00 (S)	ST-(101)	26 LF	0.96%
ST-(103)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513711.79	584300.44	82.06	18'' RCP INV EL=78.30 (NW) 18'' RCP INV EL=77.72 (W)	18'' RCP INV EL=77.22 (E)	ST-(101)	141 LF	1.00%
ST-(104)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513735.70	584280.04	82.26		18'' RCP INV EL=78.50 (SE)	ST-(103)	31 LF	0.63%
ST-(105)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513711.79	584080.65	84.25	18'' RCP INV EL=80.50 (NW)	18'' RCP INV EL=79.90 (E)	ST-(103)	220 LF	1.00%
ST-(106)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513735.70	584060.04	84.46		18'' RCP INV EL=80.70 (SE)	ST-(105)	32 LF	0.67%
ST-(107)	INDEX NO. 430-021 - CROSS DRAIN MES WITH 1:4 SLOPE - SINGLE ROUND CONC. PIPE	1513483.54	584955.45		24'' RCP INV EL=66.00 (S)				
ST-(108)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1513320.72	584955.51	76.72	24'' RCP INV EL=68.05 (S)	24'' RCP INV EL=66.82 (N)	ST-(107)	163 LF	0.51%
ST-(109)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513304.63	584950.09	76.06	18'' RCP INV EL=68.30 (SW)	24'' RCP INV EL=68.30 (N)	ST-(108)	17 LF	1.66%
ST-(110)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513280.67	584934.97	76.06	18'' RCP INV EL=69.74 (W) 18'' RCP INV EL=71.52 (E)	18'' RCP INV EL=68.55 (NE)	ST-(109)	28 LF	0.88%
ST-(111)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513278.10	585161.07	78.04	14''x23'' ERCP INV EL=74.35 (N)	18'' RCP INV EL=73.75 (W)	ST-(110)	226 LF	0.99%
ST-(112)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513300.51	585169.61	78.03		14''x23'' ERCP INV EL=74.50 (S)	ST-(111)	24 LF	0.62%
ST-(113)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513280.67	584823.85	76.57	18'' RCP INV EL=70.41 (W)	18'' RCP INV EL=70.41 (E)	ST-(110)	111 LF	0.60%
ST-(114)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1513279.43	584609.01	77.98	18'' RCP INV EL=71.87 (S)	18'' RCP INV EL=71.70 (E)	ST-(113)	215 LF	0.60%
ST-(115)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513132.27	584603.13	77.20	18'' RCP INV EL=72.75 (E)	18'' RCP INV EL=72.75 (N)	ST-(114)	147 LF	0.60%
ST-(116)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513132.27	584627.17	77.20		18'' RCP INV EL=73.00 (W)	ST-(115)	24 LF	1.03%
ST-(117)	INDEX NO. 430-021 - CROSS DRAIN MES WITH 1:4 SLOPE - SINGLE ROUND CONC. PIPE	1513010.87	584906.13		24''x38'' ERCP INV EL=68.50 (N)				
ST-(118)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513068.67	584906.03	76.01	18'' RCP INV EL=71.00 (N) 18'' RCP INV EL=70.68 (E) 30'' RCP INV EL=69.01 (W)	24''x38'' ERCP INV EL=68.79 (S)	ST-(117)	58 LF	0.50%
ST-(119)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513096.59	584906.03	75.85		18'' RCP INV EL=71.25 (S)	ST-(118)	28 LF	0.90%
ST-(120)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513052.67	585249.93	81.23	18'' RCP INV EL=77.00 (N)	18'' RCP INV EL=77.00 (W)	ST-(118)	344 LF	1.84%

DRAINAGE STRUCTURE & PIPE DATA TABLE

STRUCTURE NO.	TYPE	NORTHING	EASTING	TOP EL (FT)	PIPE(S) IN	PIPE OUT	DOWNSTREAM STRUCTURE	PIPE OUT LENGTH	PIPE OUT SLOPE
ST-(121)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1513112.59	585250.53	81.25		18'' RCP INV EL=77.25 (S)	ST-(120)	60 LF	0.42%
ST-(122)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1513070.15	584625.95	77.22	30'' RCP INV EL=70.35 (S)	30'' RCP INV EL=70.35 (E)	ST-(118)	280 LF	0.48%
ST-(123)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512912.60	584627.11	76.21	24'' RCP INV EL=71.05 (S) 18'' RCP INV EL=71.75 (W)	30'' RCP INV EL=71.05 (N)	ST-(122)	158 LF	0.45%
ST-(124)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512912.66	584603.19	76.21		18'' RCP INV EL=72.00 (E)	ST-(123)	24 LF	1.11%
ST-(125)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512802.60	584627.11	75.66	18'' RCP INV EL=71.59 (S) 18'' RCP INV EL=71.00 (W)	24'' RCP INV EL=71.59 (N)	ST-(123)	110 LF	0.50%
ST-(126)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512802.63	584603.19	75.66		18'' RCP INV EL=71.25 (E)	ST-(125)	24 LF	1.11%
ST-(127)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512692.60	584627.11	76.21	18'' RCP INV EL=71.75 (W) 18'' RCP INV EL=72.14 (S)	18'' RCP INV EL=72.14 (N)	ST-(125)	110 LF	0.50%
ST-(128)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512692.63	584603.19	76.21		18'' RCP INV EL=72.00 (E)	ST-(127)	24 LF	1.05%
ST-(129)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512471.52	584627.11	77.31	18'' RCP INV EL=73.25 (W)	18'' RCP INV EL=73.25 (N)	ST-(127)	221 LF	0.50%
ST-(130)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512472.66	584603.19	77.31		18'' RCP INV EL=73.50 (E)	ST-(129)	24 LF	1.04%
ST-(131)	INDEX NO. 430-021 - CROSS DRAIN MES WITH 1:4 SLOPE - SINGLE ROUND CONC. PIPE	1512864.93	585140.51		18'' RCP INV EL=72.00 (E)				
ST-(132)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512864.93	585185.55	78.26	18'' RCP INV EL=74.50 (E)	18'' RCP INV EL=73.23 (W)	ST-(131)	45 LF	2.73%
ST-(133)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512864.90	585209.47	78.26		18'' RCP INV EL=74.75 (W)	ST-(132)	24 LF	1.04%
ST-(134)	INDEX NO. 430-021 - CROSS DRAIN MES WITH 1:4 SLOPE - SINGLE ROUND CONC. PIPE	1512519.50	585012.38		30'' RCP INV EL=70.00 (SE)				
ST-(135)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1512407.26	585139.02	76.62	18'' RCP INV EL=71.64 (NE) 18'' RCP INV EL=71.01 (SW) 18'' RCP INV EL=71.25 (S)	30'' RCP INV EL=70.85 (NW)	ST-(134)	169 LF	0.51%
ST-(136)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1512452.18	585181.56	76.46	18'' RCP INV EL=72.07 (N)	18'' RCP INV EL=72.00 (SW)	ST-(135)	62 LF	0.60%
ST-(137)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512567.75	585185.56	76.77	18'' RCP INV EL=73.00 (NE)	18'' RCP INV EL=72.75 (S)	ST-(136)	116 LF	0.60%
ST-(138)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512589.96	585209.47	76.88		18'' RCP INV EL=73.25 (SW)	ST-(137)	33 LF	0.79%
ST-(139)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512378.69	585148.63	75.74	18'' RCP INV EL=72.00 (SE)	18'' RCP INV EL=71.50 (N)	ST-(135)	30 LF	0.83%
ST-(140)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512358.60	585162.52	75.73		18'' RCP INV EL=72.25 (NW)	ST-(139)	24 LF	1.02%
ST-(141)	INDEX NO. 425-001 - TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), ROUND BOTTOM)	1512340.18	585076.98	76.43	18'' RCP INV EL=71.55 (W)	18'' RCP INV EL=71.55 (NE)	ST-(135)	91 LF	0.60%
ST-(142)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512334.59	584877.65	77.17	18'' RCP INV EL=72.75 (S)	18'' RCP INV EL=72.75 (E)	ST-(141)	199 LF	0.60%
ST-(143)	INDEX NO. 425-041 - GUTTER INLET - TYPE V	1512310.67	584875.65	77.18		18'' RCP INV EL=73.00 (N)	ST-(142)	24 LF	1.11%
ST-(144)	INDEX NO. 430-021 - CROSS DRAIN MES WITH 1:4 SLOPE - SINGLE ROUND CONC. PIPE	1512179.94	585214.99		19''x30'' ERCP INV EL=73.50 (SW)				
ST-(145)	INDEX NO. 425-020 - CURB INLET TYPE 4 WITH ROUND BOTTOM	1512118.69	585110.59	82.35	18'' RCP INV EL=78.27 (S)	19''x30'' ERCP INV EL=74.11 (NE)	ST-(144)	121 LF	0.50%
ST-(146)	INDEX NO. 425-020 - CURB INLET TYPE 4 WITH ROUND BOTTOM	1512083.69	585110.34	82.74		18'' RCP INV EL=78.47 (N)	ST-(145)	35 LF	0.65%
ST-158	12 INCH ADS YARD DRAIN	1513598.74	583515.09	90.28		15'' PVC INV EL=87.50 (S)	ST-159	110 LF	1.16%
ST-159	12 INCH ADS YARD DRAIN	1513488.74	583515.09	89.06	15'' PVC INV EL=86.23 (N)	15'' PVC INV EL=86.12 (S)	ST-160	110 LF	1.07%
ST-160	12 INCH ADS YARD DRAIN	1513378.74	583515.09	87.77	15'' PVC INV EL=84.96 (N)	15'' PVC INV EL=84.85 (S)	ST-161	110 LF	1.07%
ST-161	12 INCH ADS YARD DRAIN	1513268.74	583515.09	86.47	15'' PVC INV EL=83.69 (N)	15'' PVC INV EL=82.60 (S)	ST-(68)	101 LF	0.73%

NOTES:
1. NORTHING & EASTING REPRESENTS CENTER OF STRUCTURE OR INVERT OF MES.
2. TOP ELEVATIONS FOR GUTTER INLET TYPE V = EDGE OF PAVEMENT ELEVATION.
3. TOP ELEVATIONS FOR CURB INLETS = TOP OF BACK OF CURB AT STRUCTURE LOCATION, FOR MANHOLES AND DROP INLETS = TOP OF RIM OR GRATE
4. ALL DRAINAGE STRUCTURES IN PAVED AREAS SHALL INCLUDE H-20 TRAFFIC BEARING STEEL GRATES PER FDOT INDEX 425-052.
5. ALL DRAINAGE STRUCTURES, INCLUDING END TREATMENTS, SHALL BE PER FDOT STANDARDS FOR THE TYPE DESIGNATED (I.E. TYPE FES = FDOT INDEX 430-020) UNLESS APPROVED OTHERWISE. YARD INLETS ARE EXCLUDED FROM FDOT STANDARDS.
6. DRAINAGE PIPE UNDER PAVING SHALL BE REINFORCED CONCRETE PER FDOT SPECIFICATIONS SECTION 430 UNLESS APPROVED OTHERWISE.
7. CORRUGATED POLYETHYLENE, CORRUGATED POLYPROPYLENE, OR CORRUGATED POLYVINYL CHLORIDE PIPE, MEETING FDOT SPECIFICATIONS 430 AND 948 SHALL BE ALLOWED FOR AREAS NOT UNDER PAVING & WITH LESS THAN 4' OF COVER.
8. ALL PIPE LENGTHS ARE APPROXIMATE AND INCLUDE THE END SECTIONS. ACTUAL LENGTH MAY VARY SLIGHTLY BASED ON STRUCTURE INSTALLATION.
9. ALL PIPE JOINTS TO BE FILTER FABRIC WRAPPED PER FDOT SPECIFICATIONS SECTION 430-001.
10. ALL PIPES WITHIN HERNANDO COUNTY RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO FDOT SPECIFICATION 430. UNLESS APPROVED BY VARIANCE TO INCLUDE POLYPROPYLENE PIPE.

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DRAINAGE STRUCTURES AND PIPE CHART (2)

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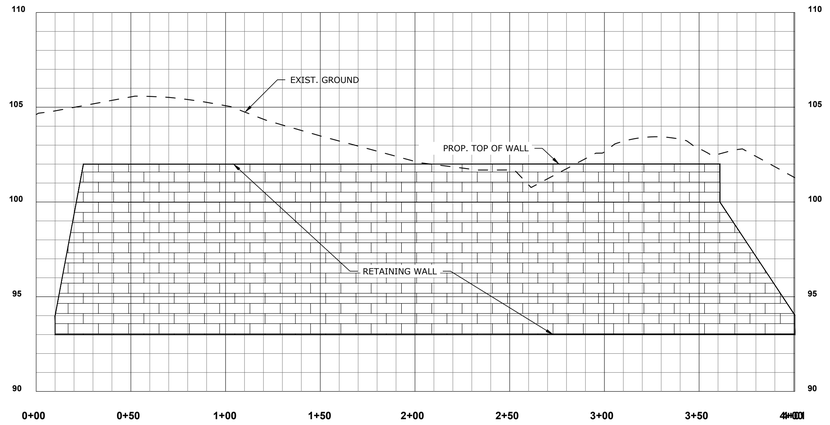
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SOUTHWEST RETAINING WALL SECTION A-A

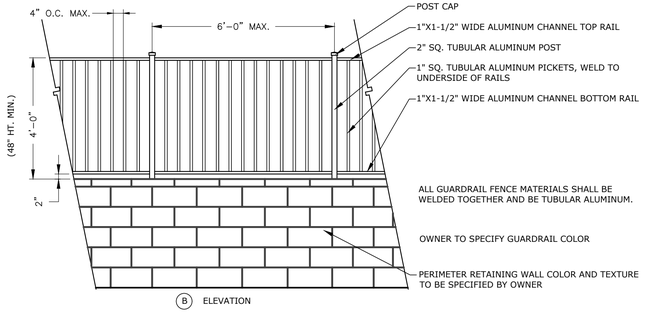
HOR SCALE: 1"=40'
VER SCALE: 1"=4'

NOTE:

FOR PERIMETER GUARDRAIL PLACED ATOP SITE RETAINING WALL, CONTRACTOR TO COORDINATE WITH WALL MANUFACTURER AND INSTALLER ON WALL STRENGTH TO SUPPORT FENCE POSTS. FILLING TOP THREE COURSES OF DRY STACK WALL WITH MORTAR MAY BE NECESSARY FOR POST SUPPORT. VERIFY WITH MANUFACTURER.

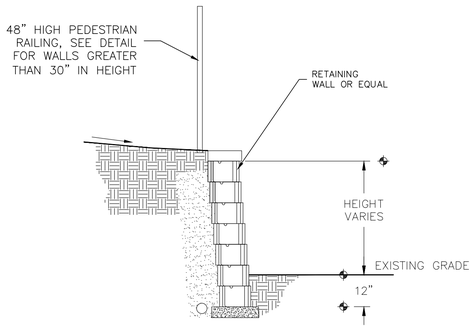
NOTE:

GENERAL CONTRACTOR TO PROVIDE STRUCTURAL ENGINEERING OF ALL GUARDRAIL FOOTINGS.



PROPOSED PEDESTRIAN GUARDRAIL DETAIL

NOT TO SCALE



TYPICAL SECTION

NTS

RETAINING WALL SCHEMATIC
STRUCTURAL DESIGN BY OTHERS
CONTRACTOR TO PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR APPROVAL
WALL TO BE PERMITTED THROUGH HERNANDO COUNTY BY THE CONTRACTOR

RETAINING WALL SECTIONS AND DETIALS

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PLANNING LICENSE
No. 59405
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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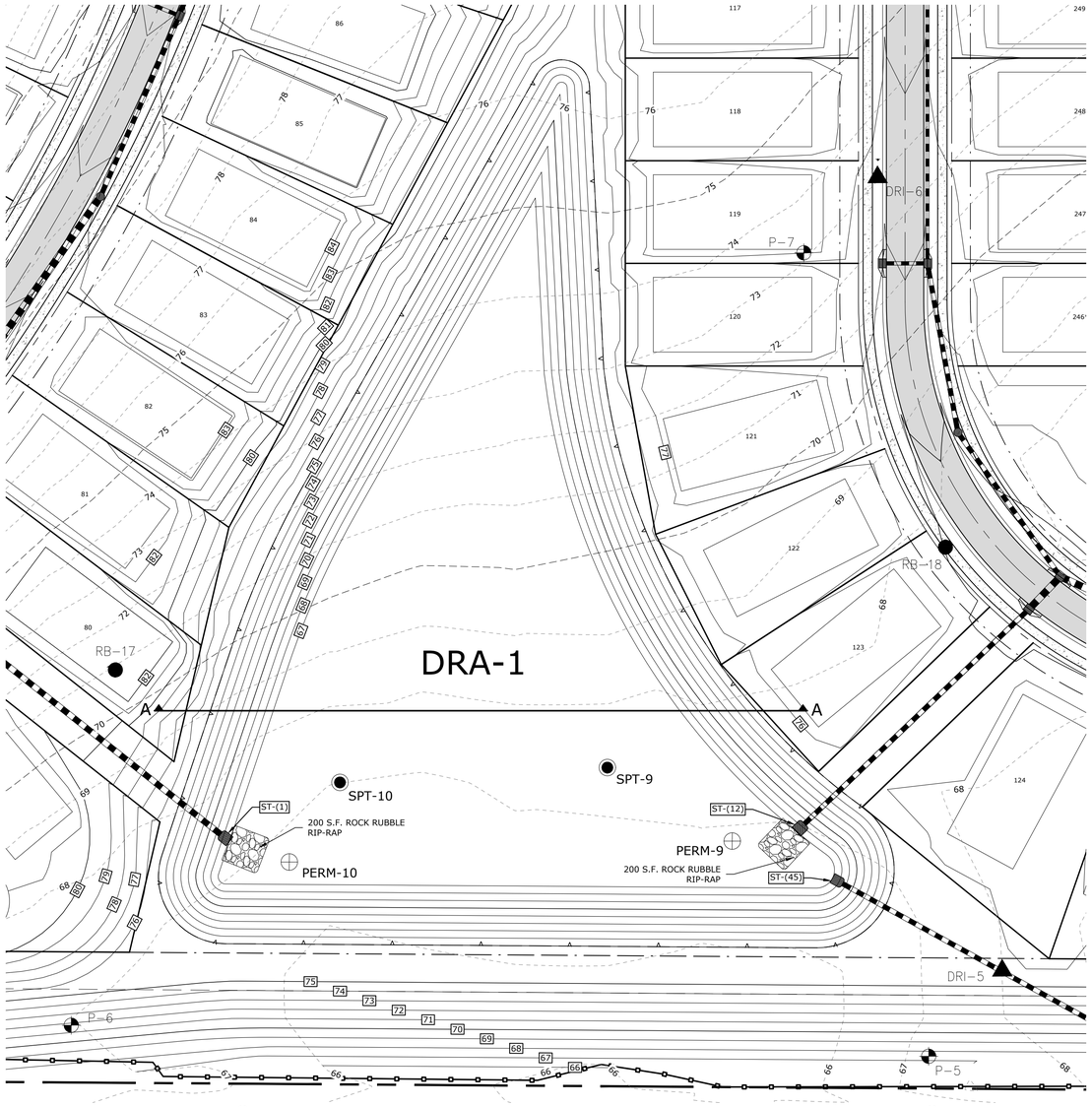
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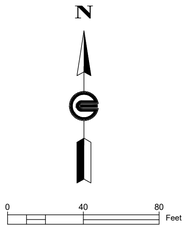
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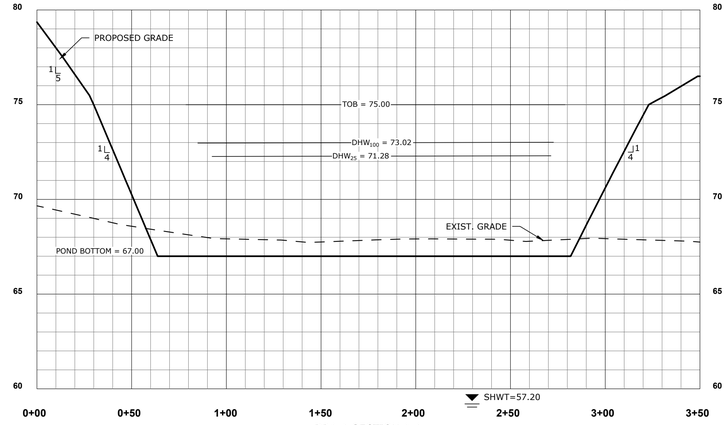
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DRA-1 SECTION A-A
1" = 40' H
1" = 4' V

SITE DRA-1 STORMWATER INFORMATION

DESCRIPTION			
MIN. BERM/T.O.B. ELEV.	75		
AREA AT TOP OF BANK (sq ft)	94,714		
BOTTOM ELEVATION	67		
AREA AT BOTTOM (sq ft)	52,896		
SIDE SLOPE	4:1		
SEASONAL HIGH WATER ELEV	57.2	≥ 10'	
25 YR DESIGN HIGH WATER ELEV.	71.28		
100 YR DESIGN HIGH WATER ELEV.	73.02	PRE	POST
25 YR DISCHARGE RATE (FT/SEC)		0	0
100 YR DISCHARGE VOLUME (AF)		0	0
OPEN END PIPE HYDRAULIC CONDUCTIVITY TEST RESULTS			0 PERM-9 10.4/20.8
TESTED PERFORMED 5'-7' BELOW GRADE AND MEASURED IN FT/DAY. VALUES SHOWN ARE NOT FACTORED.			40 PERM-10 1/2

NOTES:
1. ALL SLOPES 5: 1 OR STEEPER TO BE SODDED.
2. POND BOTTOMS TO BE LEFT AS INSITU MATERIAL. NO EXCAVATION OR MATERIAL REPLACEMENT SHALL BE PERMITTED IN THE POND BOTTOM WITHOUT ENGINEERING APPROVAL.
3. ALL DISTURBED AREAS TO BE SEED AND MULCHED. A MINIMUM OF 80% VEGETATIVE GROWTH ON SEED AND MULCHED AREAS WILL BE REQUIRED FOR ACCEPTANCE.

DRA SECTIONS AND DETAILS (1)

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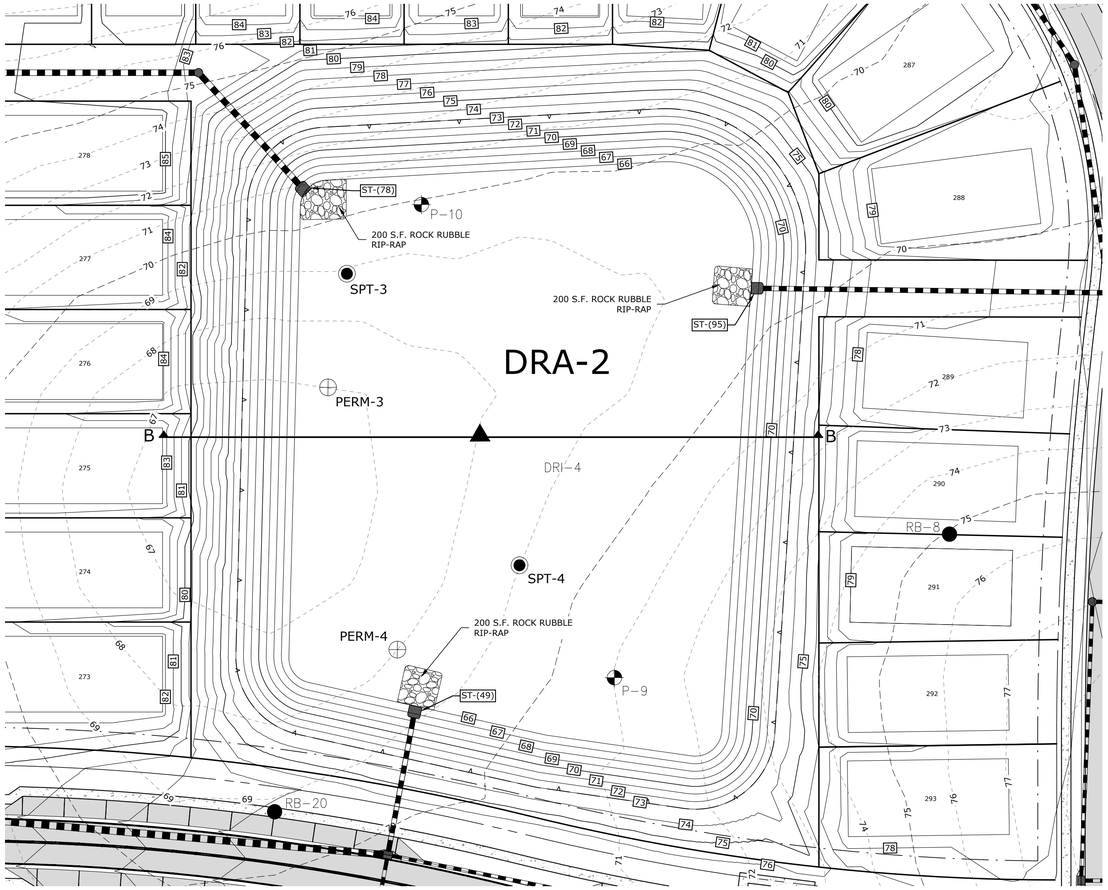
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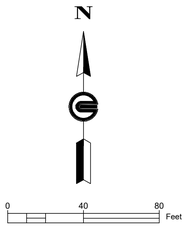
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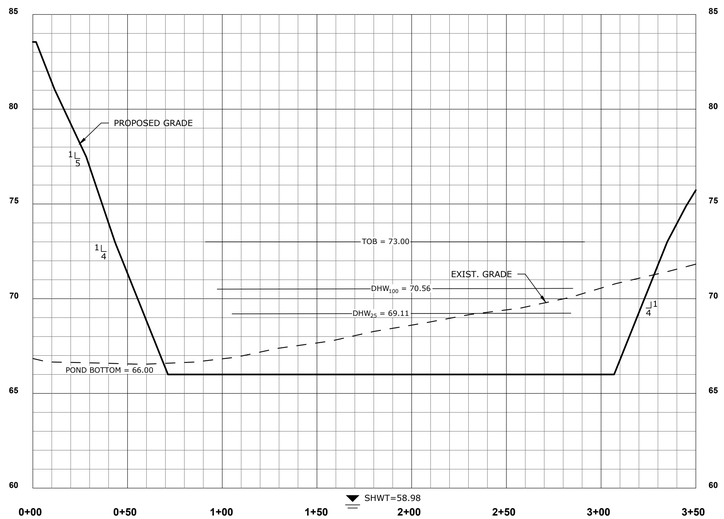
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DRA-2 SECTION B-B
1" = 40' H
1" = 4' V

SITE DRA-2 STORMWATER INFORMATION

DESCRIPTION			
MIN. BERM/T.O.B. ELEV.	73		
AREA AT TOP OF BANK (sq ft)	98,966		
BOTTOM ELEVATION	66		
AREA AT BOTTOM (sq ft)	68,173		
SIDE SLOPE	4:1		
SEASONAL HIGH WATER ELEV	58.98	≥ 10'	
25 YR DESIGN HIGH WATER ELEV.	69.11		
100 YR DESIGN HIGH WATER ELEV.	70.56	PRE	POST
25 YR DISCHARGE RATE (FT/SEC)		0	0
100 YR DISCHARGE VOLUME (AF)		0	0
OPEN END PIPE HYDRAULIC CONDUCTIVITY TEST RESULTS			0 PERM-3 9.4/18.8
TESTED PERFORMED 5'-7' BELOW GRADE AND MEASURED IN FT/DAY. VALUES SHOWN ARE NOT FACTORED.			40 PERM-4 1/2

NOTES:
1. ALL SLOPES 5: 1 OR STEEPER TO BE SODDED.
2. POND BOTTOMS TO BE LEFT AS INSITU MATERIAL. NO EXCAVATION OR MATERIAL REPLACEMENT SHALL BE PERMITTED IN THE POND BOTTOM WITHOUT ENGINEERING APPROVAL.
3. ALL DISTURBED AREAS TO BE SEED AND MULCHED. A MINIMUM OF 80% VEGETATIVE GROWTH ON SEED AND MULCHED AREAS WILL BE REQUIRED FOR ACCEPTANCE.

DRA SECTIONS AND DETAILS (2)

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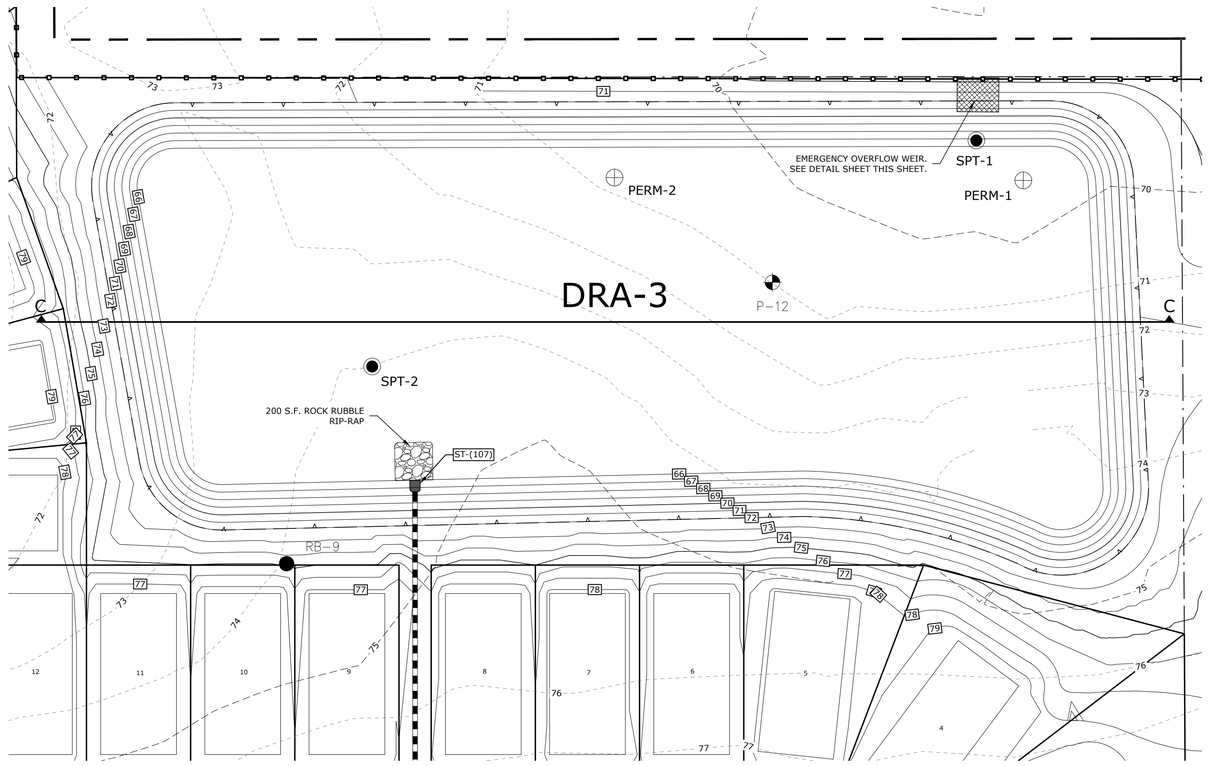
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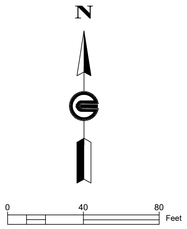
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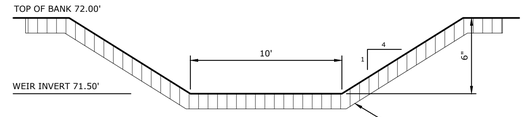
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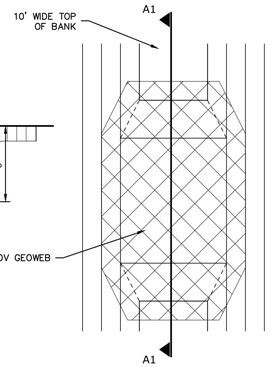
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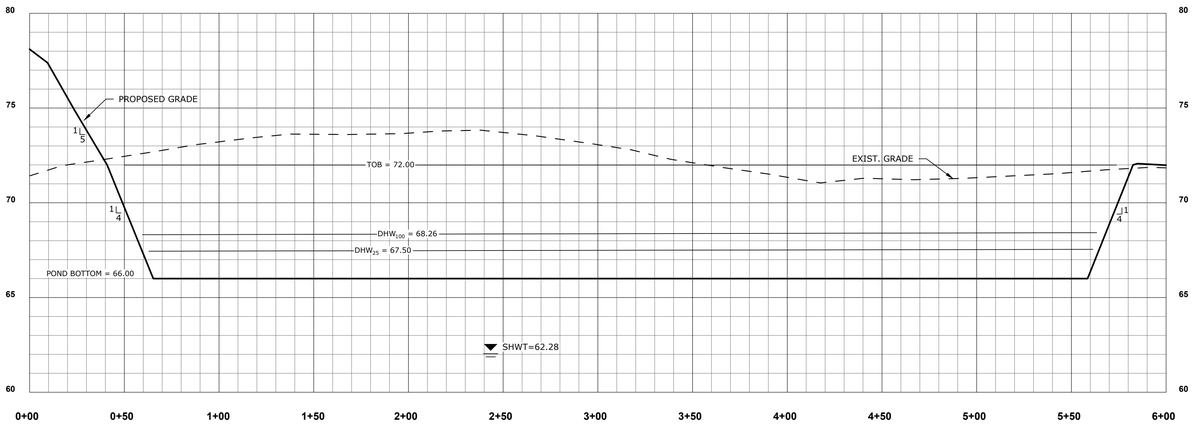
SECTION A1-A1



PLAN VIEW

NOTES:
1. ENTIRE OVERFLOW WEIR TO STABILIZED WITH PRESTO GEOWEB GW40V CELL SYSTEM OR EQUAL. GEOWEB TO BE STACKED AND EXTEND 4' BEYOND SLOPES IN ALL DIRECTIONS.
2. GEOBEW TO BE BACKFILLED AND COMPACTED TO MANUFACTURERS RECOMMENDATIONS.
3. SOD TO BE APPLIED OVER GEOWEB OUTFALL

DRA WEST GEOWEB OVERFLOW WEIR
N.T.S.



DRA-3 SECTION C-C
1" = 40' H
1" = 4' V

SITE DRA-3 STORMWATER INFORMATION

DESCRIPTION				
MIN. BERM/T.O.B. ELEV.	72			
AREA AT TOP OF BANK (sq ft)	121,470			
BOTTOM ELEVATION	66			
AREA AT BOTTOM (sq ft)	87,517			
SIDE SLOPE	4:1			
SEASONAL HIGH WATER ELEV	62.28	≥ 10'		
25 YR DESIGN HIGH WATER ELEV.	67.50			
100 YR DESIGN HIGH WATER ELEV.	68.26	PRE	POST	
25 YR DISCHARGE RATE (FT/SEC)		0	0	
100 YR DISCHARGE VOLUME (AF)		0	0	
OPEN END PIPE HYDRAULIC CONDUCTIVITY TEST RESULTS			0	PERM-1 .2/.4
TESTED PERFORMED 5'-7' BELOW GRADE AND MEASURED IN FT/DAY. VALUES SHOWN ARE NOT FACTORED.			40	PERM-2 5/10

NOTES:
1. ALL SLOPES 5: 1 OR STEEPER TO BE SODDED.
2. POND BOTTOMS TO BE LEFT AS INSITU MATERIAL. NO EXCAVATION OR MATERIAL REPLACEMENT SHALL BE PERMITTED IN THE POND BOTTOM WITHOUT ENGINEERING APPROVAL.
3. ALL DISTURBED AREAS TO BE SEED AND MULCHED. A MINIMUM OF 80% VEGETATIVE GROWTH ON SEED AND MULCHED AREAS WILL BE REQUIRED FOR ACCEPTANCE.

DRA SECTIONS AND DETAILS (3)

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STATE OF FLORIDA
REGISTERED PROFESSIONAL ENGINEER

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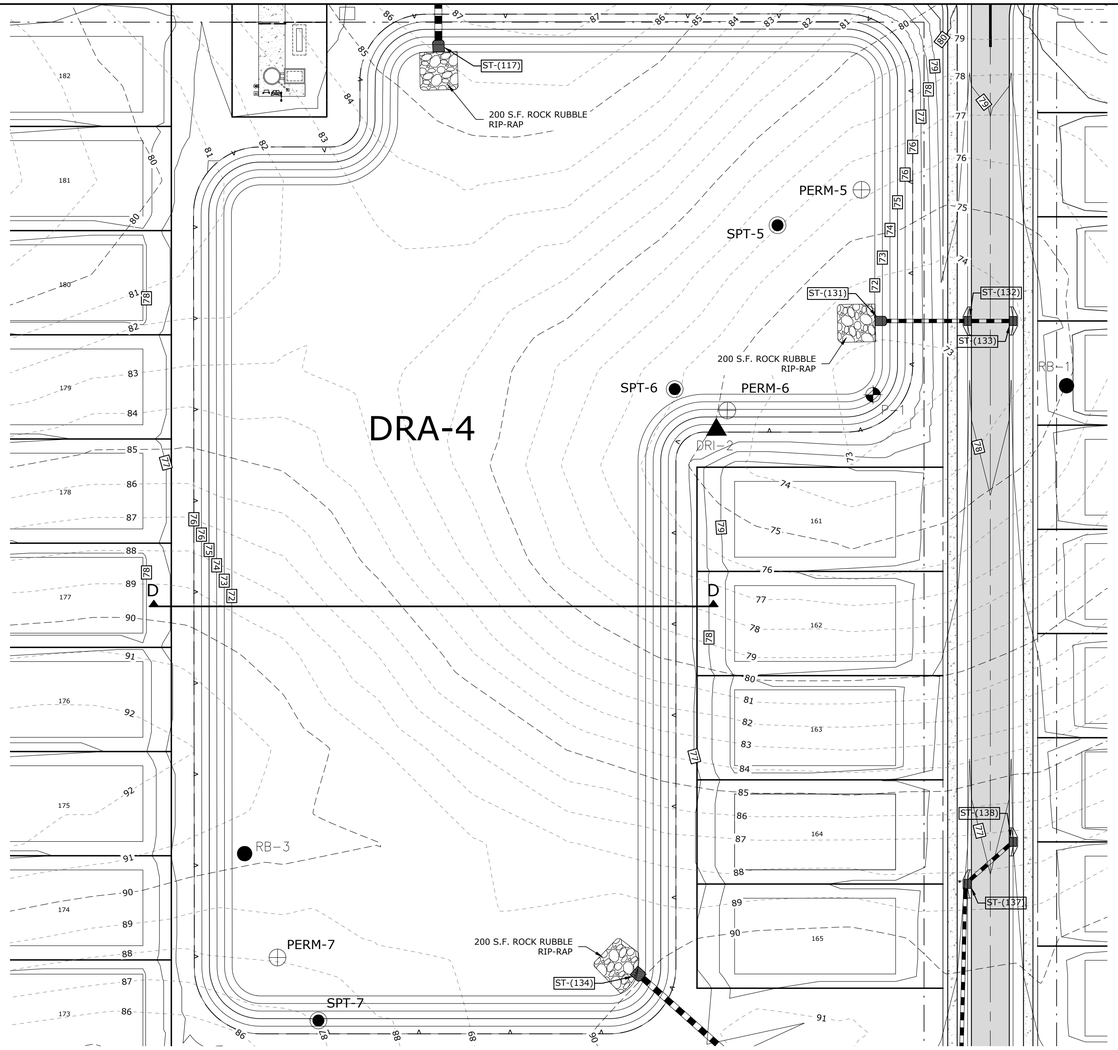
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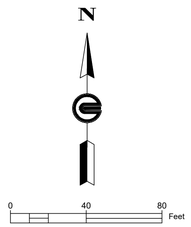
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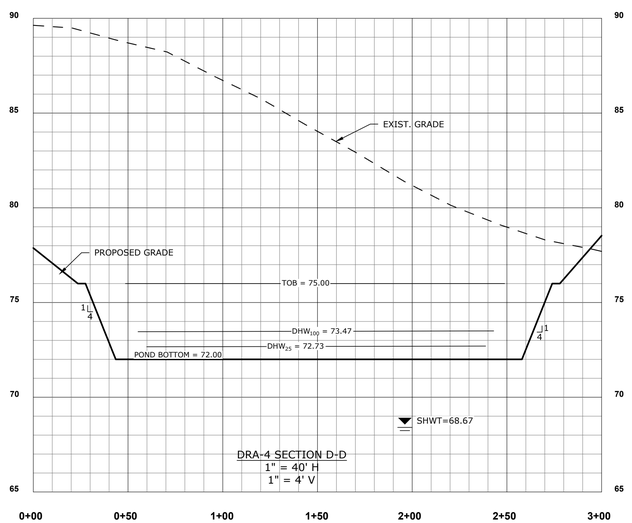
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DRA-4 SECTION D-D
1" = 40' H
1" = 4' V

SITE DRA-4 STORMWATER INFORMATION

DESCRIPTION			
MIN. BERM/T.O.B. ELEV.	75		
AREA AT TOP OF BANK (sq ft)	156,920		
BOTTOM ELEVATION	72		
AREA AT BOTTOM (sq ft)	123,527		
SIDE SLOPE	4:1		
SEASONAL HIGH WATER ELEV	68.67	≥ 10'	
25 YR DESIGN HIGH WATER ELEV.	72.73		
100 YR DESIGN HIGH WATER ELEV.	73.47	PRE	POST
25 YR DISCHARGE RATE (FT/SEC)		0	0
100 YR DISCHARGE VOLUME (AF)		0	0
OPEN END PIPE HYDRAULIC CONDUCTIVITY TEST RESULTS			0 PERM-5 20.6/41.2
TESTED PERFORMED 5'-7' BELOW GRADE AND MEASURED IN FT/DAY. VALUES SHOWN ARE NOT FACTORED.			40 PERM-6 11.6/23.2
			PERM-7 1.2/2.4

NOTES:
1. ALL SLOPES 5: 1 OR STEEPER TO BE SODDED.
2. POND BOTTOMS TO BE LEFT AS INSITU MATERIAL. NO EXCAVATION OR MATERIAL REPLACEMENT SHALL BE PERMITTED IN THE POND BOTTOM WITHOUT ENGINEERING APPROVAL.
3. ALL DISTURBED AREAS TO BE SEED AND MULCHED. A MINIMUM OF 80% VEGETATIVE GROWTH ON SEED AND MULCHED AREAS WILL BE REQUIRED FOR ACCEPTANCE.

DRA SECTIONS AND DETAILS (4)

VERONA HILLS

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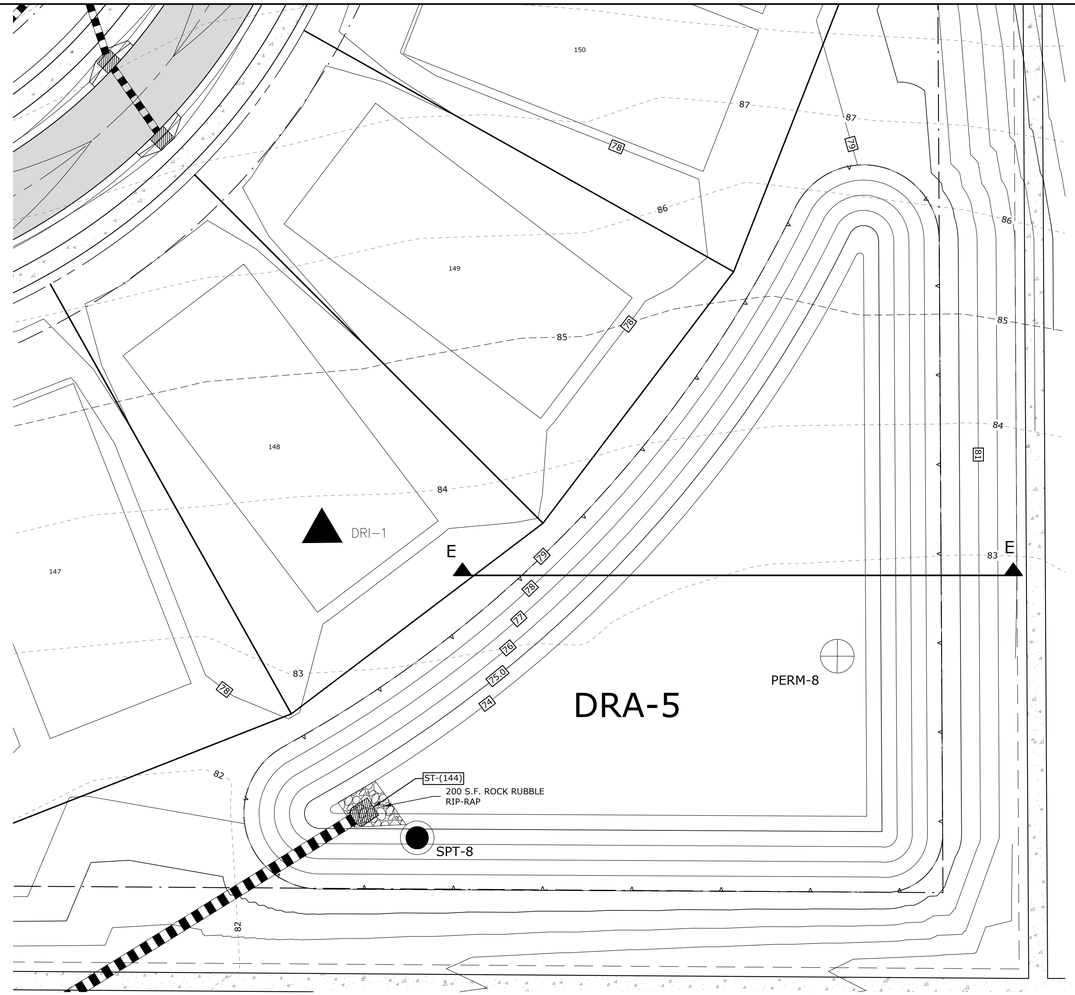
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02/02/26	DG	1	REVISED PER COUNTY COMMENTS

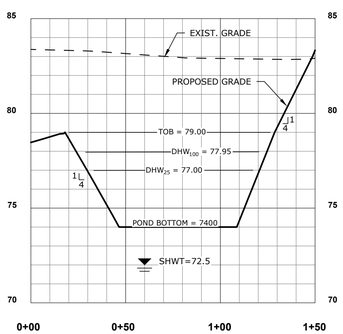
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C-43

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DRA-5 SECTION E-E
1" = 40' H
1" = 4' V

SITE DRA-5 STORMWATER INFORMATION

DESCRIPTION			
MIN. BERM/T.O.B. ELEV.	79		
AREA AT TOP OF BANK (sq ft)	20,168		
BOTTOM ELEVATION	74		
AREA AT BOTTOM (sq ft)	8,704		
SIDE SLOPE	4:1		
SEASONAL HIGH WATER ELEV	72.5	≥ 10'	
25 YR DESIGN HIGH WATER ELEV.	77.00		
100 YR DESIGN HIGH WATER ELEV.	77.95	PRE	POST
25 YR DISCHARGE RATE (FT/SEC)		0	0
100 YR DISCHARGE VOLUME (AF)		0	0
OPEN END PIPE HYDRAULIC CONDUCTIVITY TEST RESULTS			0
TESTED PERFORMED 5'-7' BELOW GRADE AND MEASURED IN FT/DAY. VALUES SHOWN ARE NOT FACTORED.			40

PERM-8 2.8/5.6

NOTES:
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DRA SECTIONS AND DETAILS (5)

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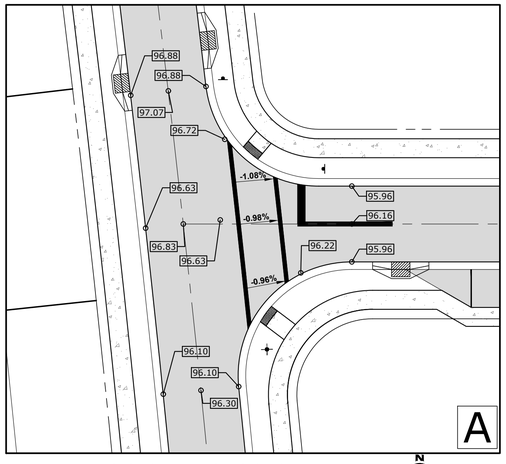
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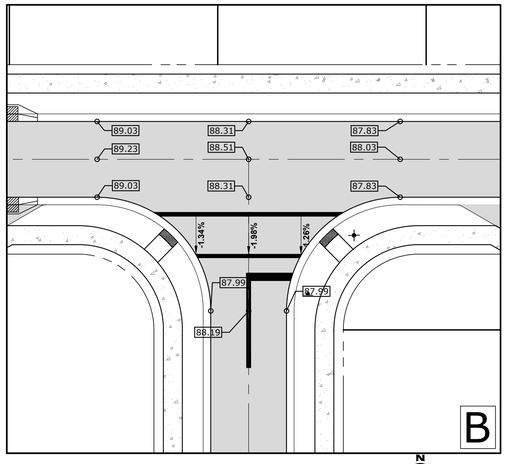
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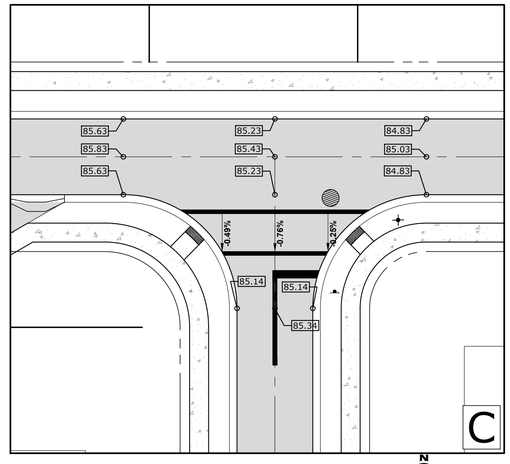
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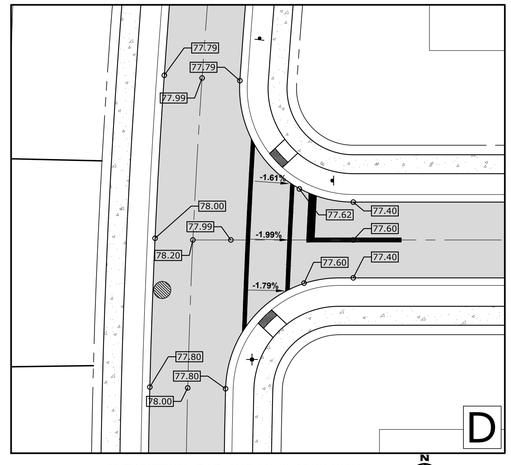
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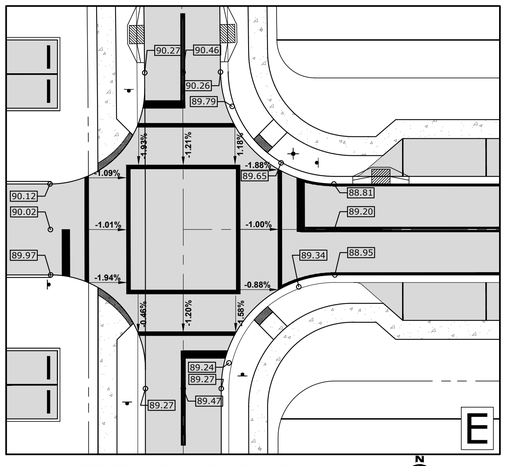
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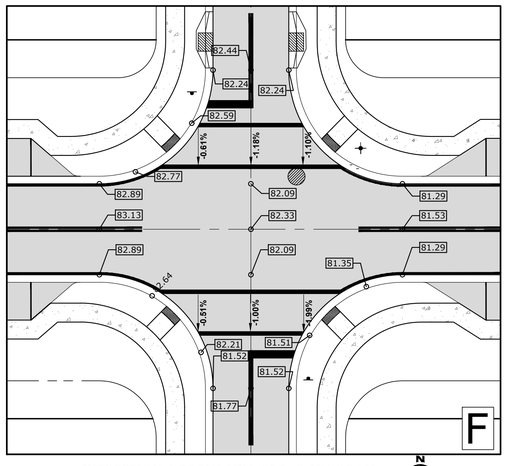
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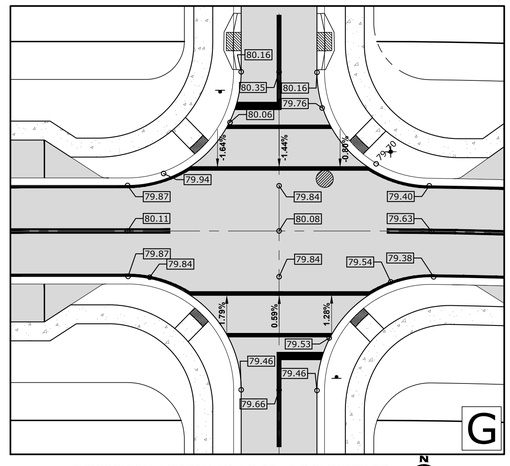
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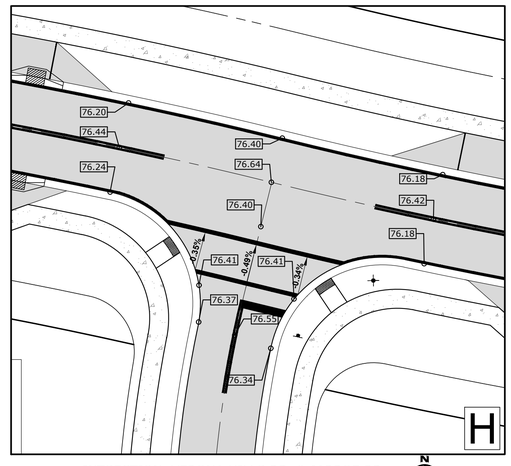
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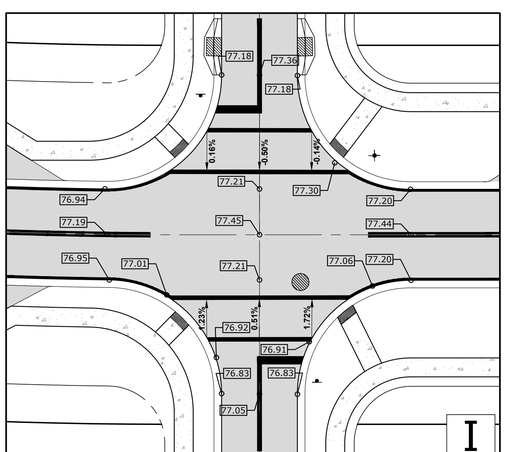
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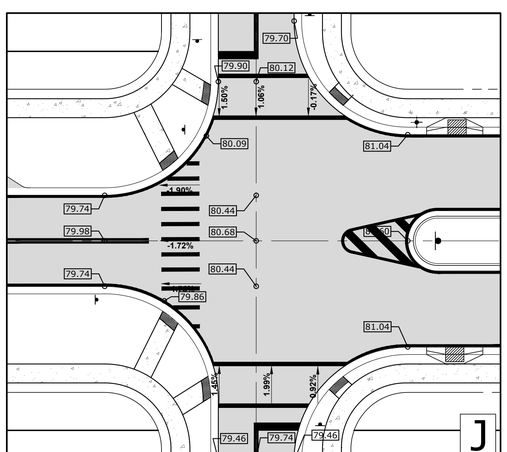
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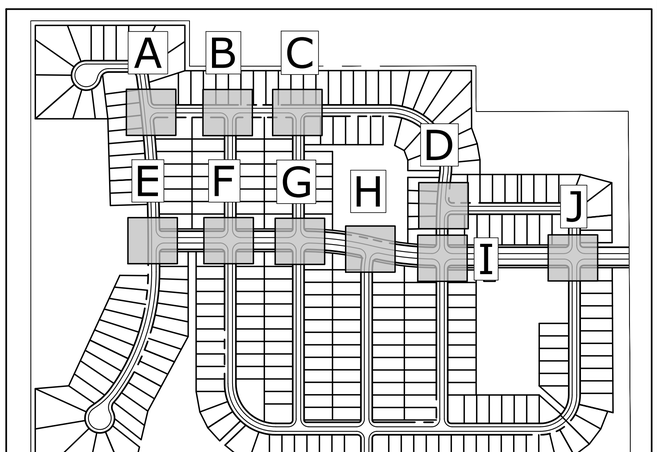
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VERONA HILLS RD. & BAD AXE LN.
SCALE: 1" =20'



INTSECTION VERONA HILLS RD. & JACK WAY
SCALE: 1" =20'



KEY MAP
NTS

INTERSECTION GRADING PLAN (1)

VERONA HILLS

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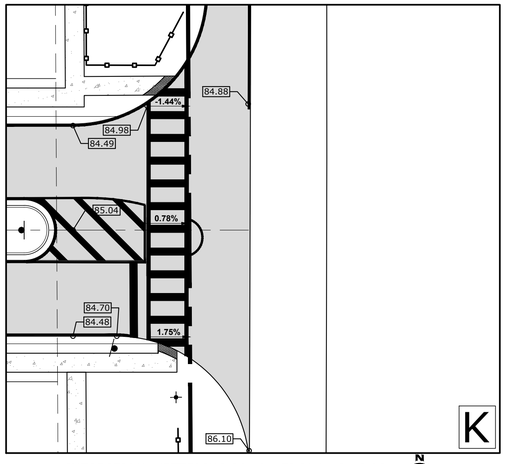
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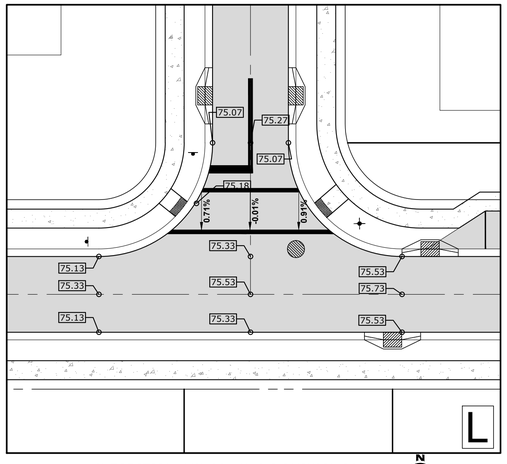
SHEET
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JOB No.: 24062

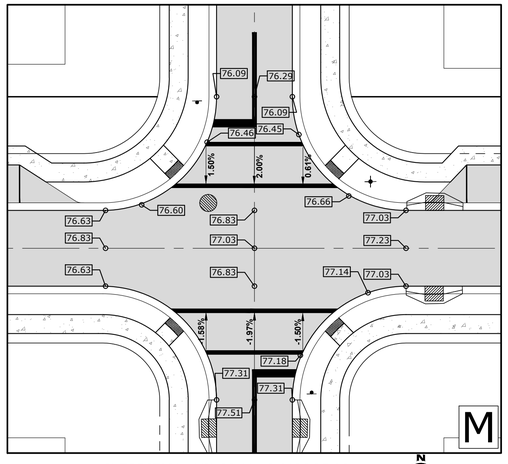
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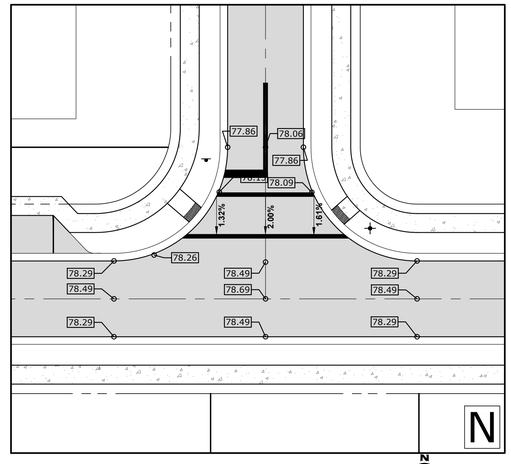
INTSECTION KETTERING RD. & VERONA HILLS RD.
SCALE: 1" =20'



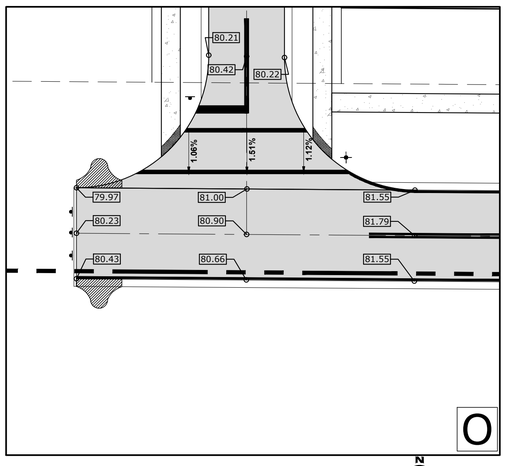
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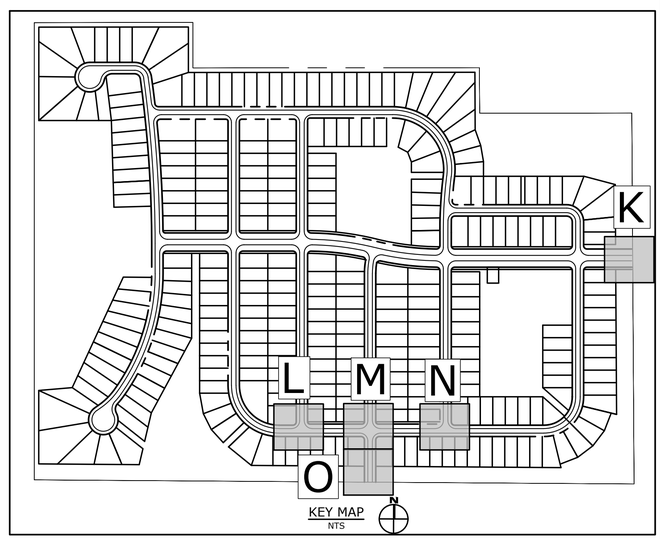
INTSECTION MINOR LN. & JARBOE RD.
SCALE: 1" =20'



INTSECTION MINOR LN. & BAD AXE RD.
SCALE: 1" =20'



INTSECTION DASHBACK ST. & JARBOE RD.
SCALE: 1" =20'



KEY MAP
NTS

INTERSECTION GRADING PLAN (2)

VERONA HILLS

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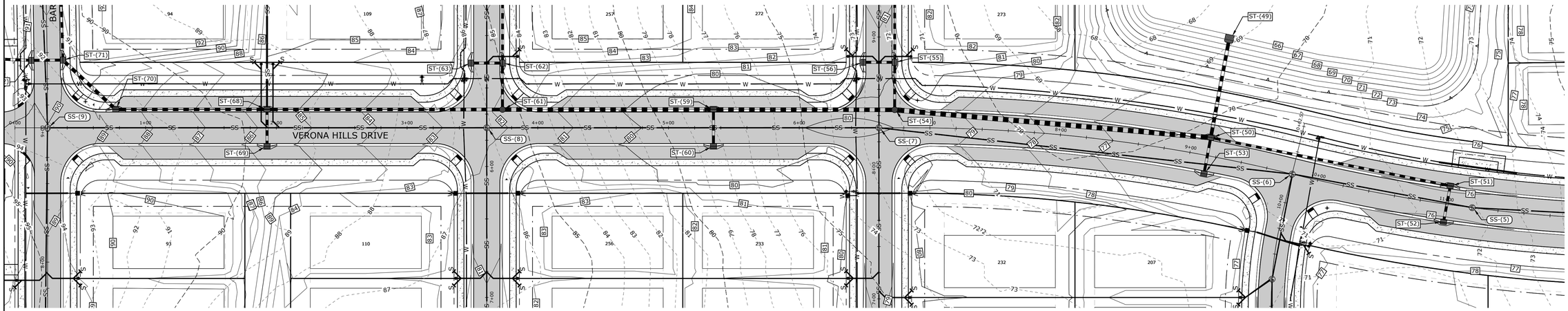
NOTE: CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS TO VERIFY PROPER SEPARATION.

NOTE: ALL PVC W.M. SHALL HAVE 36" MIN. COVER IN ACCORDANCE WITH HCUD SPECIFICATION #3.4.6

NOTE: MANHOLES WITH DEPTH OF 12' OR GREATER TO BE COATED PER HCUD REQUIREMENTS, ADDENDUM 2017 SECTION 9 (REVISED OR MONOLITHIC FIBERGLASS REINFORCED PLASTIC).

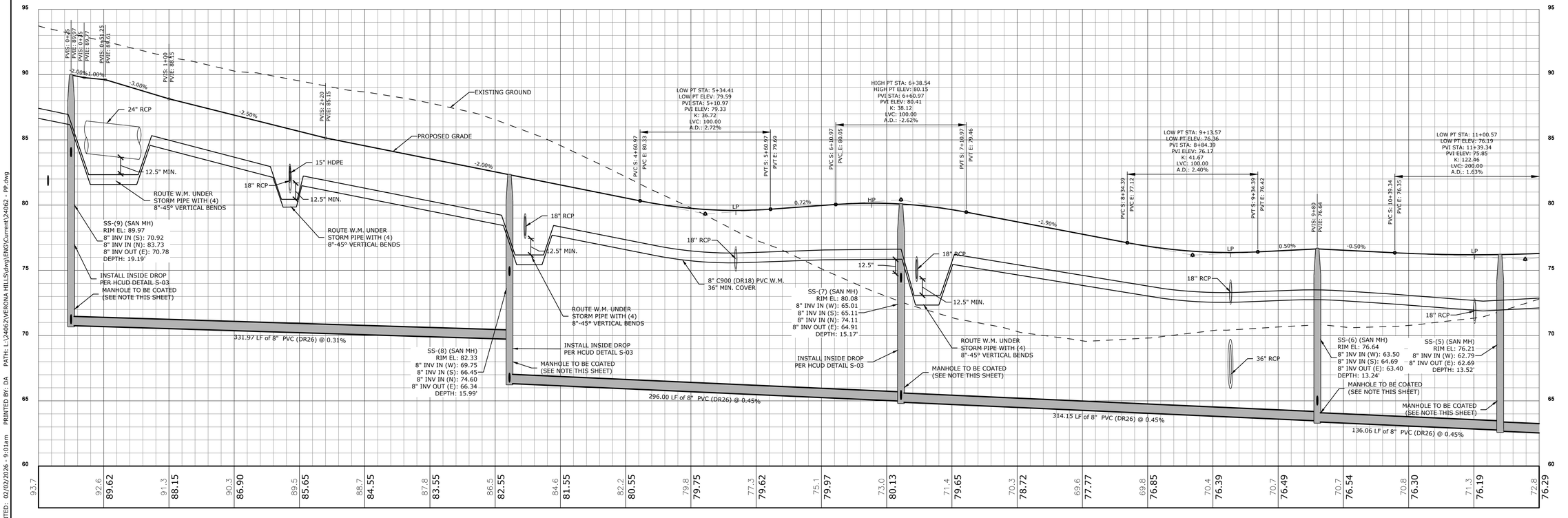
N

0 40 80 Feet



VERONA HILLS DRIVE STA 0+00- STA 11+50

HOR SCALE: 1"=40'
VER SCALE: 1"=4'



VERONA HILLS DRIVE PLAN AND PROFILE (1)

VERONA HILLS

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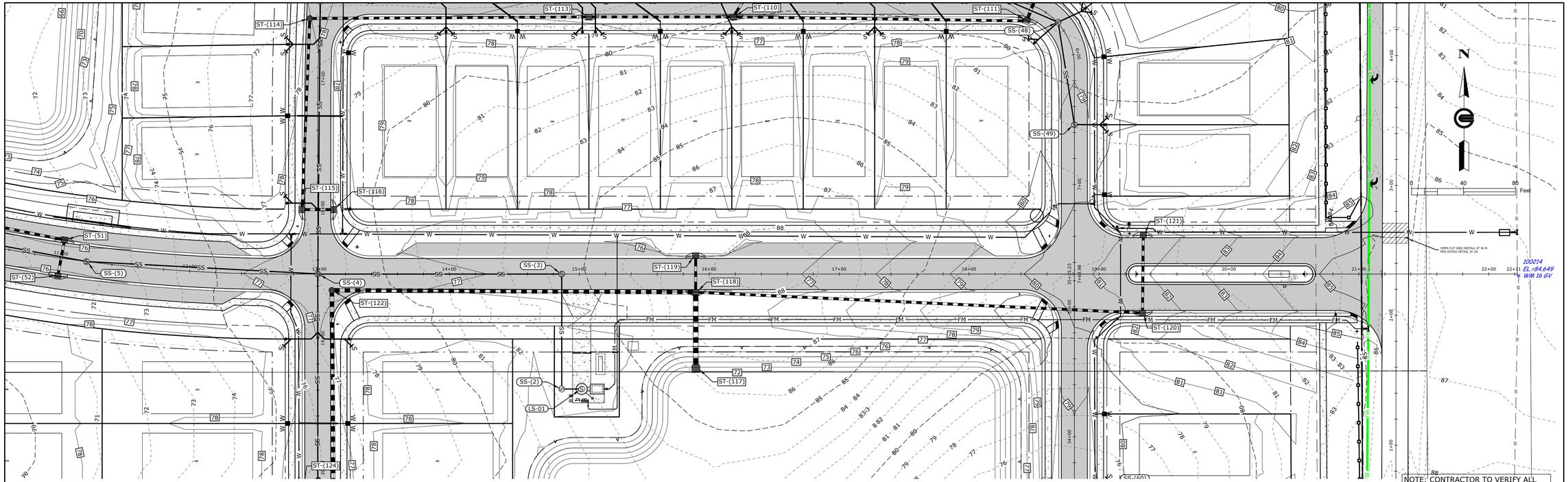
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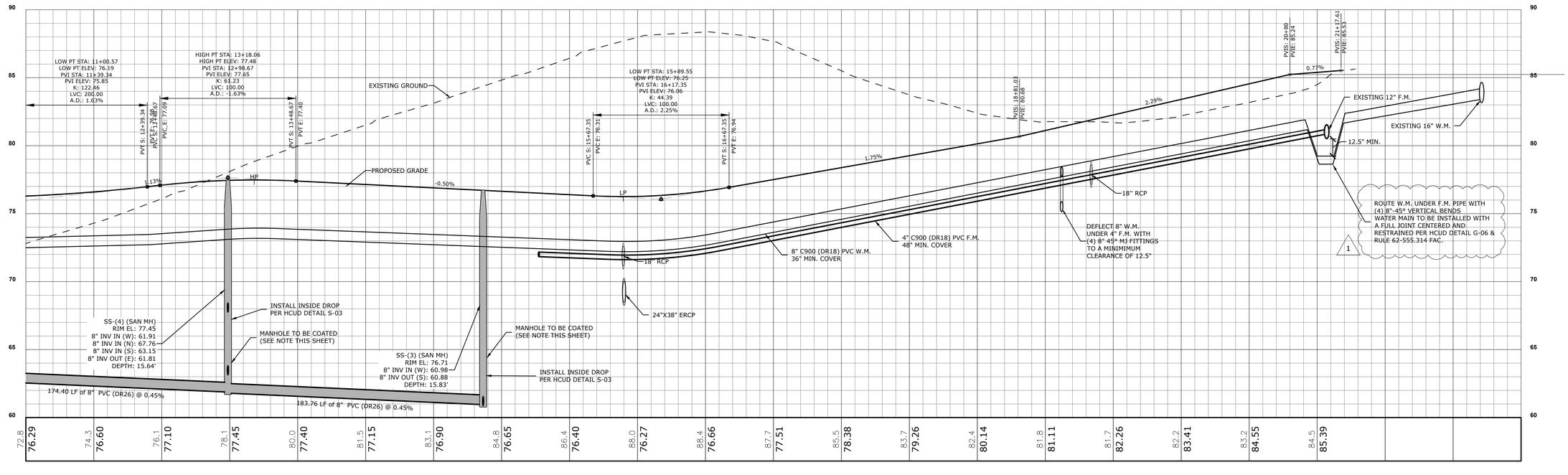
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NOTE: MANHOLES WITH DEPTH OF 12' OR GREATER TO BE COATED PER HCUD REQUIREMENTS, ADDENDUM 2017 SECTION 9 (REVISED OR MONOLITHIC FIBERGLASS REINFORCED PLASTIC).

VERONA HILLS DRIVE STA 11+50- STA 21+25

HOR SCALE: 1"=40'
VER SCALE: 1"=4'



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VERONA HILLS DRIVE
PLAN AND PROFILE (2)

VERONA HILLS

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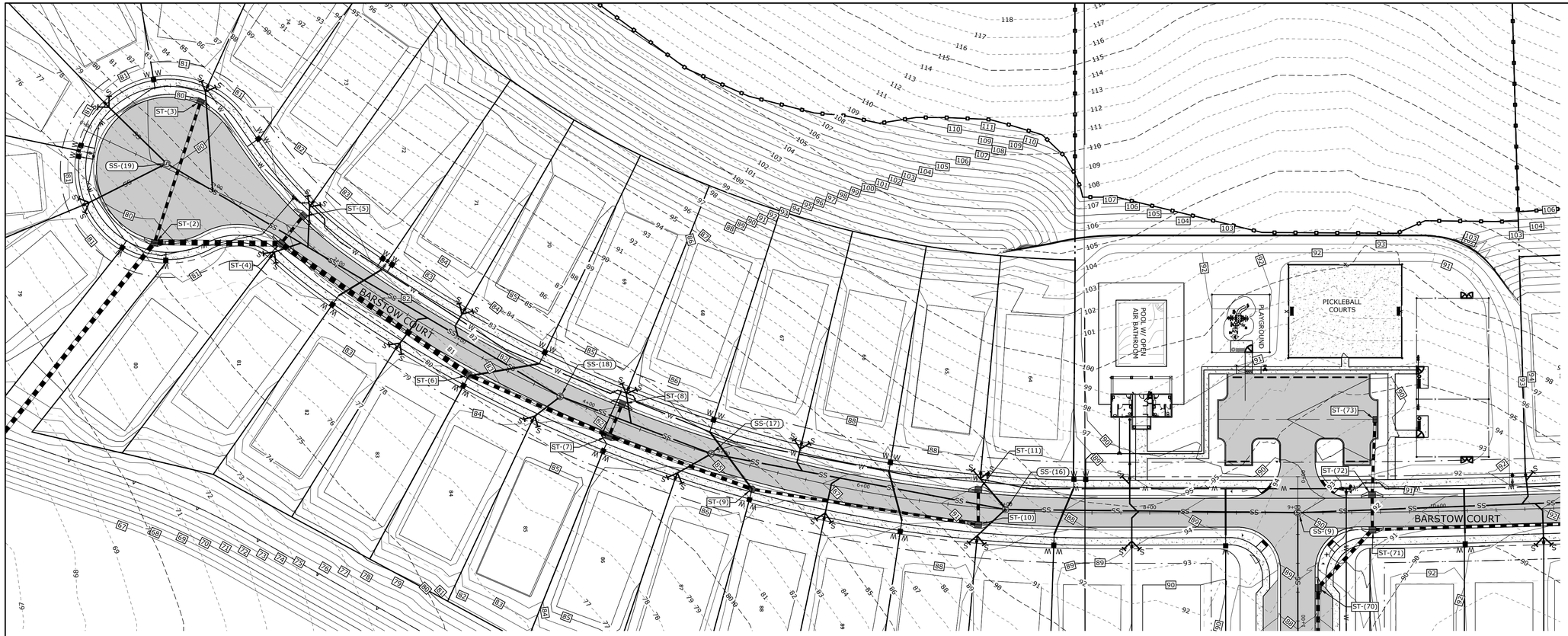
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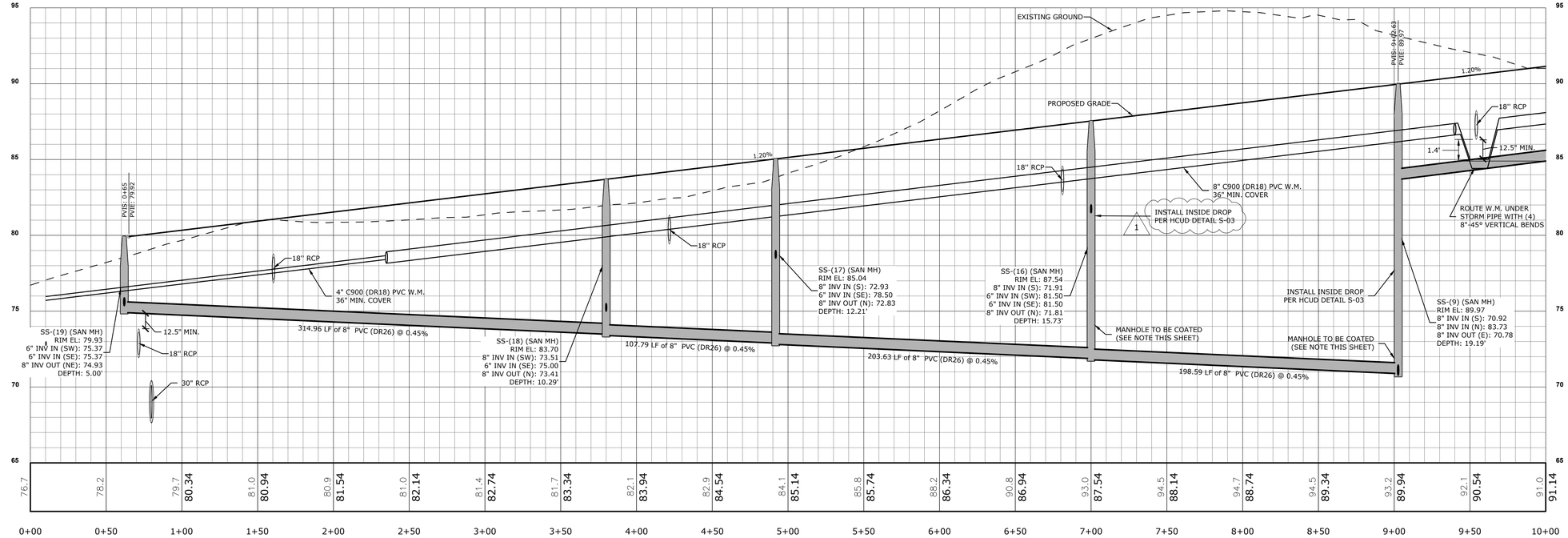
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BARSTOW CT. STA 0+00- STA 10+00

HOR SCALE: 1"=40'
VER SCALE: 1"=4'



NOTE: CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS TO VERIFY PROPER SEPARATION.

NOTE: ALL PVC W.M. SHALL HAVE 36" MIN. COVER IN ACCORDANCE WITH HCUD SPECIFICATION #3.4.6

NOTE: MANHOLES WITH DEPTH OF 12' OR GREATER TO BE COATED PER HCUD REQUIREMENTS, ADDENDUM 2017 SECTION 9 (REVISED OR MONOLITHIC FIBERGLASS REINFORCED PLASTIC).

BARSTOW CT PLAN AND PROFILE (1)

VERONA HILLS

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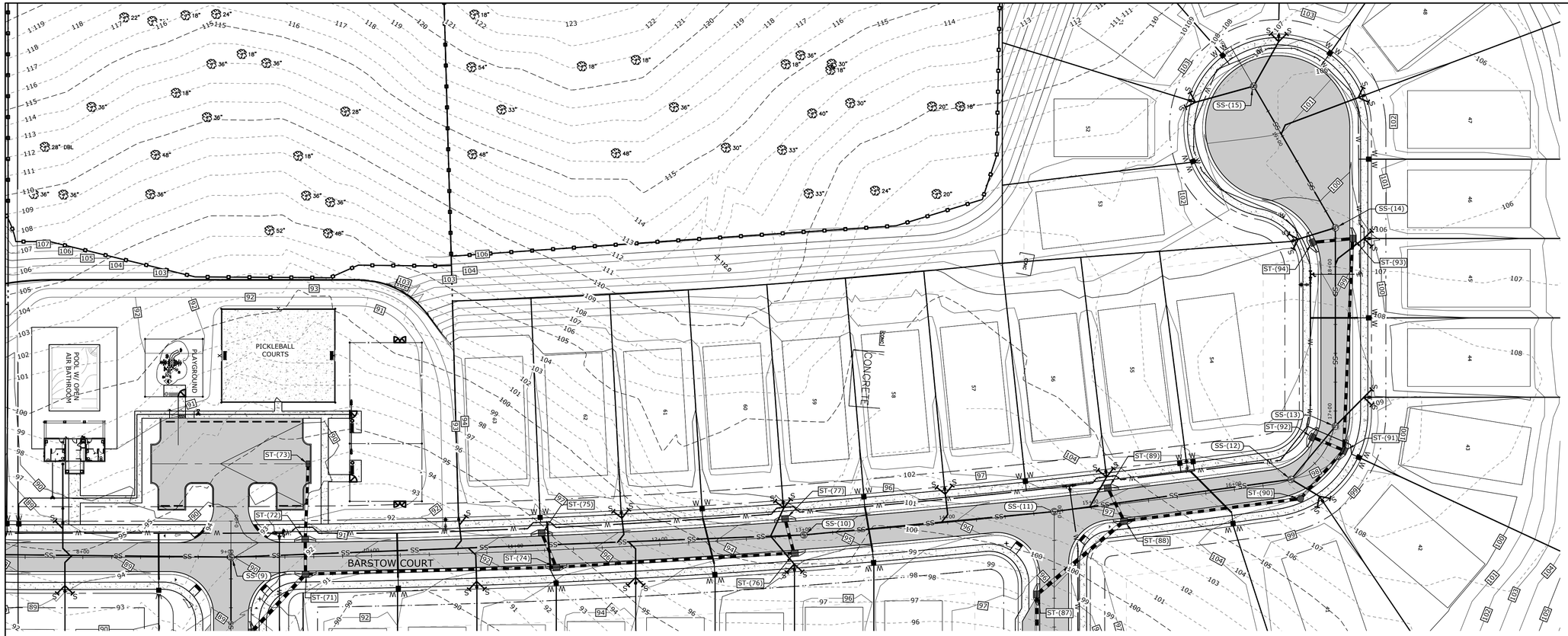
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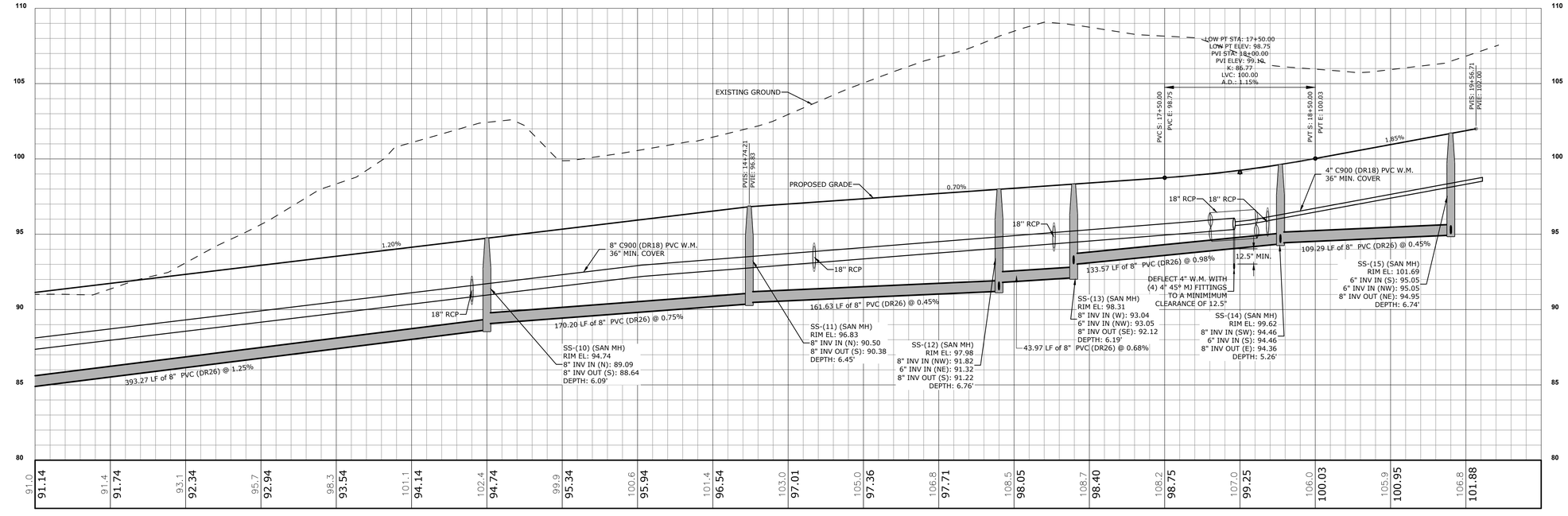
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BARSTOW CT. STA 10+00- STA 20+00

HOR SCALE: 1"=40'
VER SCALE: 1"=4'



NOTE: CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS TO VERIFY PROPER SEPARATION.

NOTE: ALL PVC W.M. SHALL HAVE 36" MIN. COVER IN ACCORDANCE WITH HCUD SPECIFICATION #3.4.6

NOTE: MANHOLES WITH DEPTH OF 12' OR GREATER TO BE COATED PER HCUD REQUIREMENTS, ADDENDUM 2017 SECTION 9 (REVISED OR MONOLITHIC FIBERGLASS REINFORCED PLASTIC).

BARSTOW CT PLAN AND PROFILE (2)

VERONA HILLS

PLAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER

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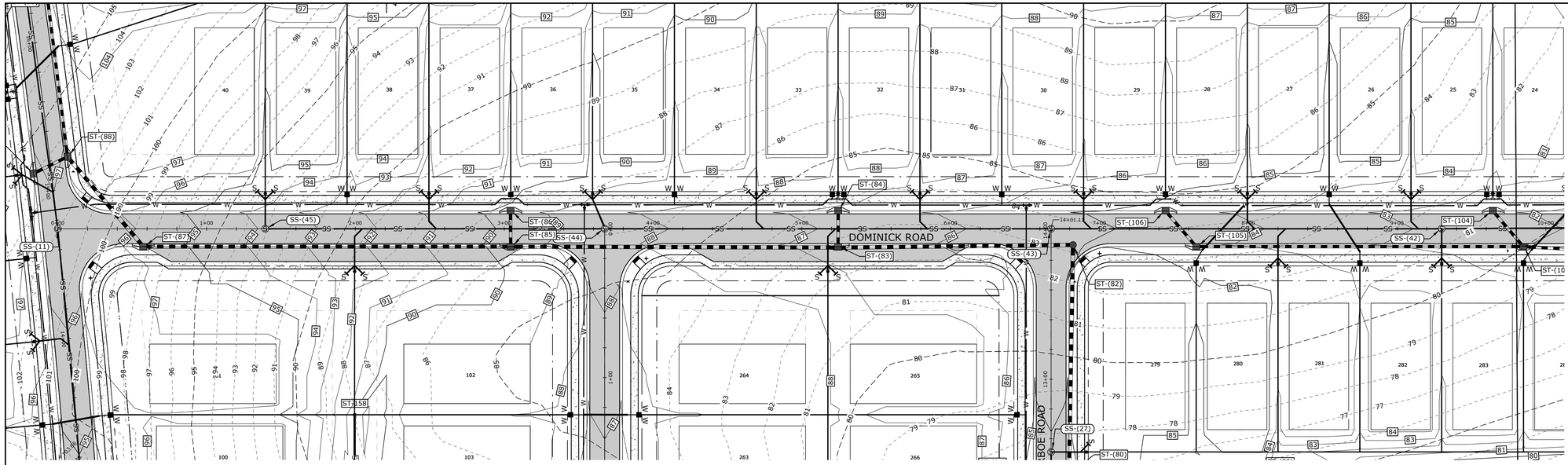
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02/02/26	DG	1	REVISED PER COUNTY COMMENTS

WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
C-50

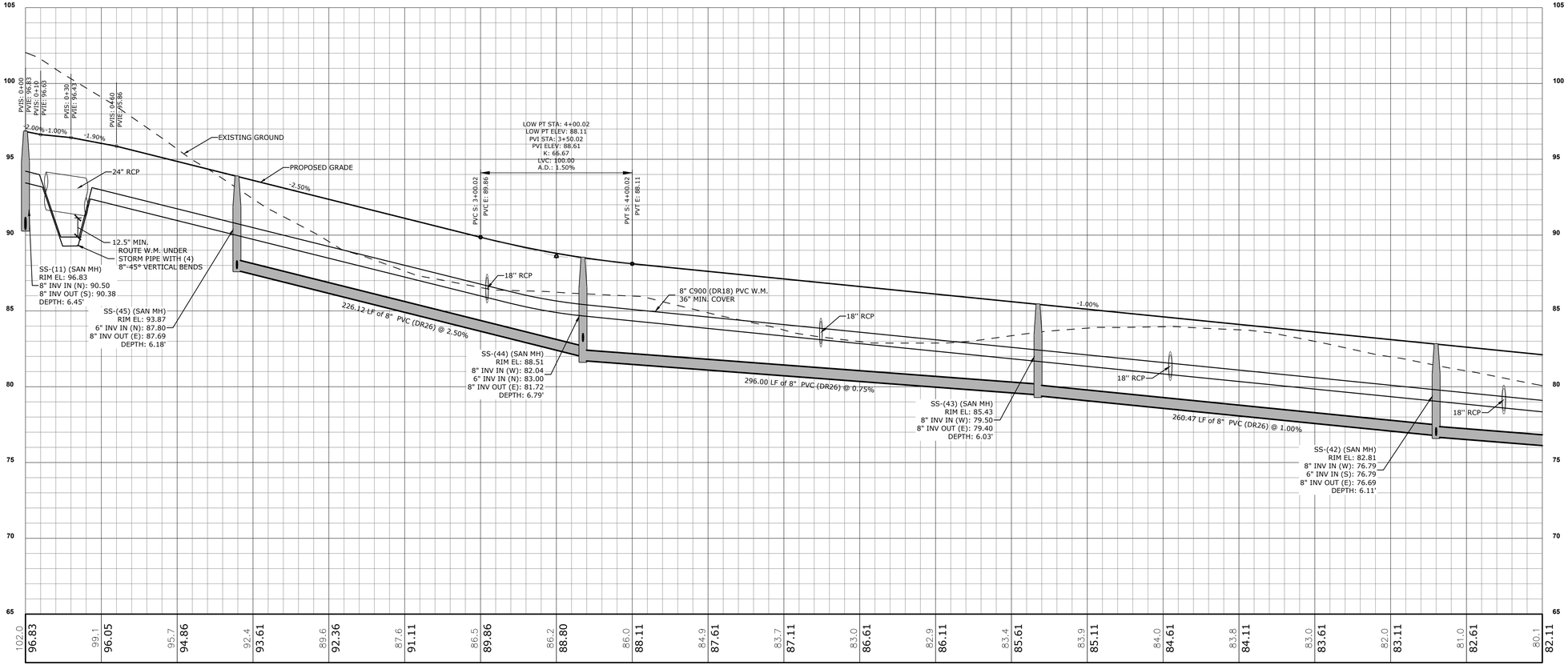
JOB No.: 24062

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DOMINICK ROAD STA 0+00- STA 10+00

HOR SCALE: 1"=40'
VER SCALE: 1"=4'



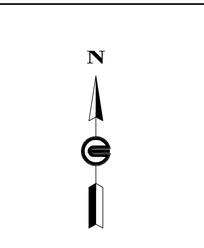
NOTE: CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS TO VERIFY PROPER SEPARATION.

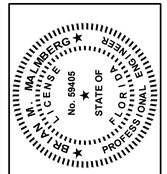
NOTE: ALL PVC W.M. SHALL HAVE 36" MIN. COVER IN ACCORDANCE WITH HCUD SPECIFICATION #3.4.6

NOTE: MANHOLES WITH DEPTH OF 12' OR GREATER TO BE COATED PER HCUD REQUIREMENTS, ADDENDUM 2017 SECTION 9 (REVISED OR MONOLITHIC FIBERGLASS REINFORCED PLASTIC).

DOMINICK ROAD PLAN AND PROFILE (1)

VERONA HILLS





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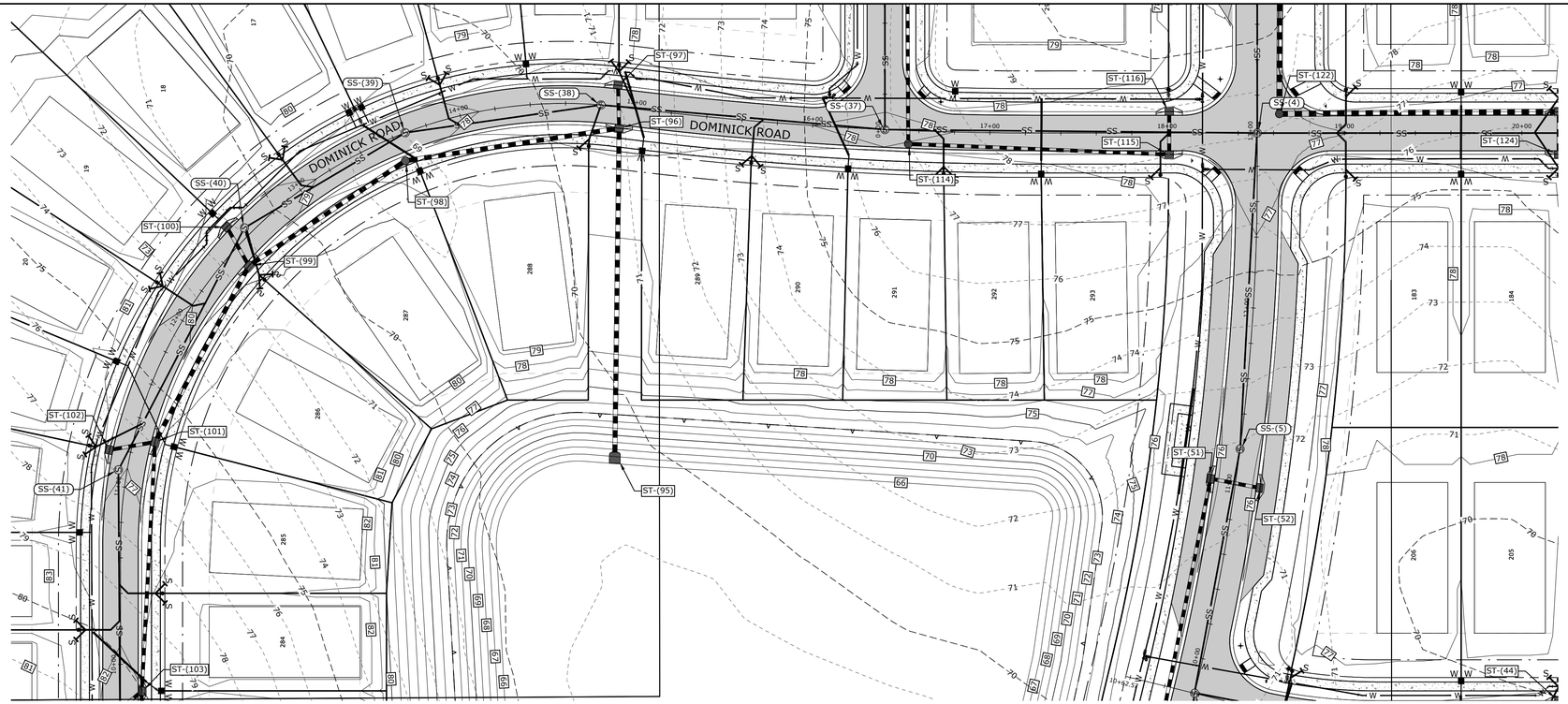
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02/02/26	DG	1	REVISED PER COUNTY COMMENTS

WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
C-51

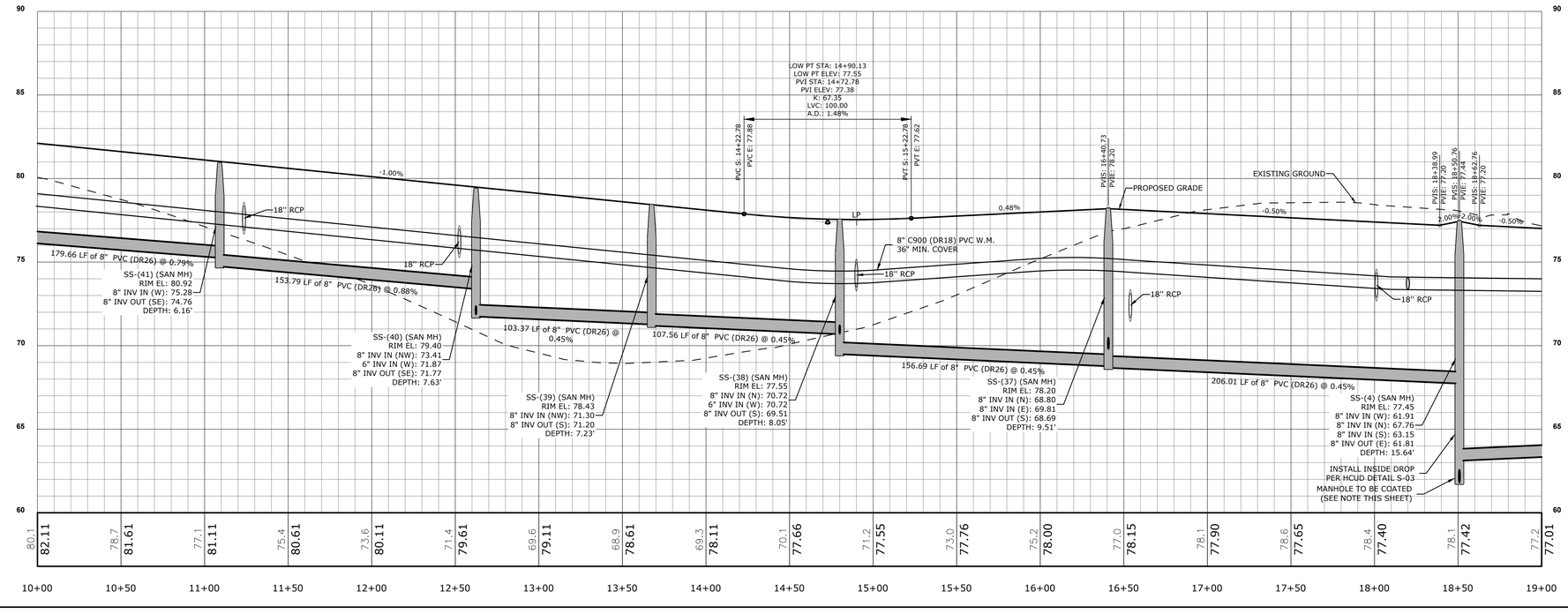
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DOMINICK ROAD STA 10+00- STA 19+00

HOR SCALE: 1"=40'
VER SCALE: 1"=4'



NOTE: CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS TO VERIFY PROPER SEPARATION.

NOTE: ALL PVC W.M. SHALL HAVE 36" MIN. COVER IN ACCORDANCE WITH HCUD SPECIFICATION #3.4.6

NOTE: MANHOLES WITH DEPTH OF 12' OR GREATER TO BE COATED PER HCUD REQUIREMENTS, ADDENDUM 2017 SECTION 9 (REVISED OR MONOLITHIC FIBERGLASS REINFORCED PLASTIC).

DOMINICK ROAD PLAN AND PROFILE (2)

VERONA HILLS

PLAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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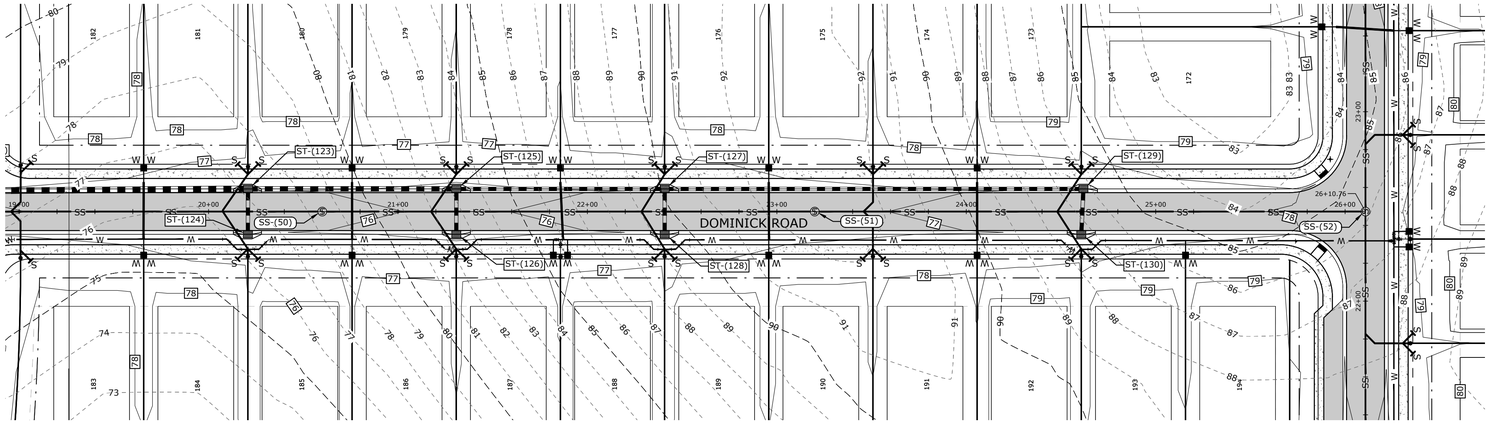
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SHEET
C-52

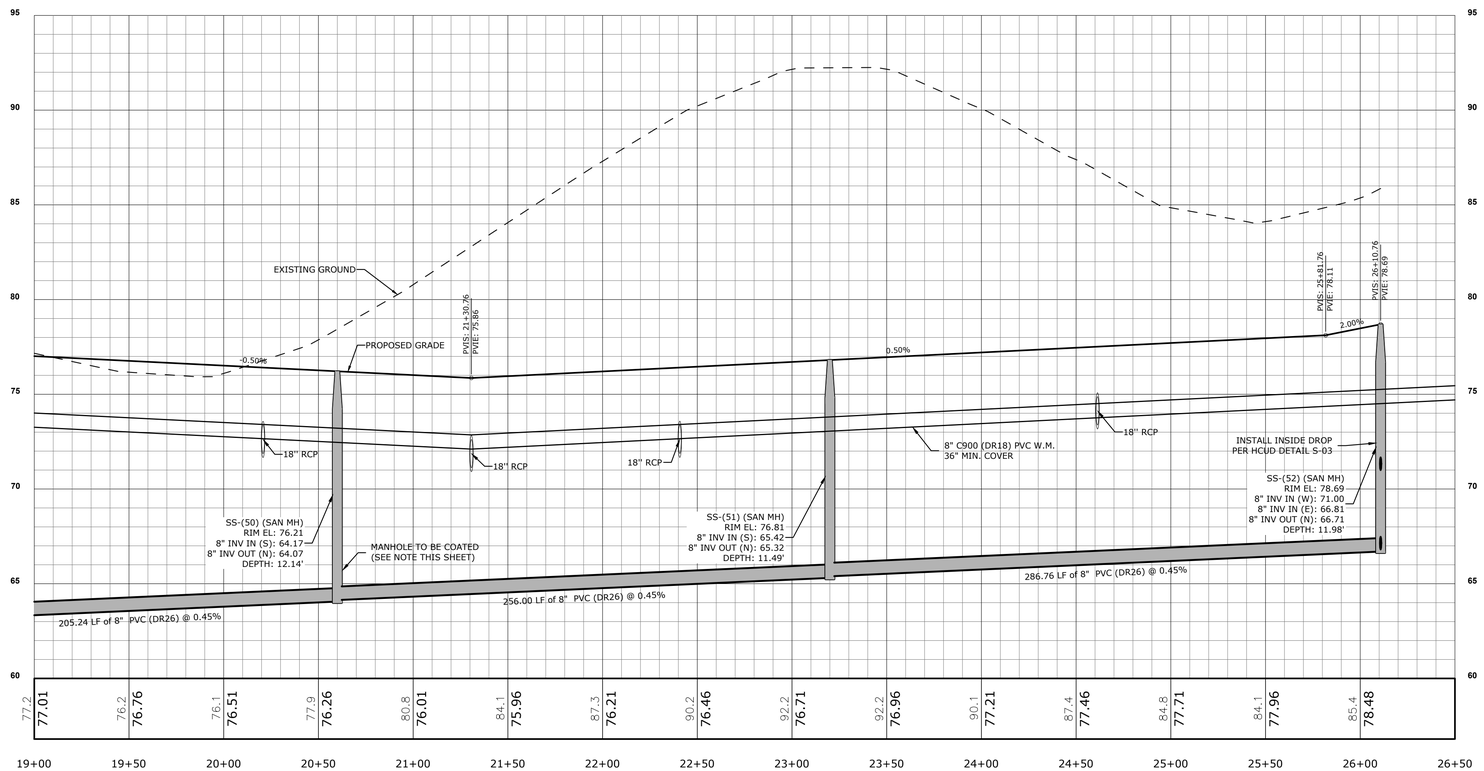
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DOMINICK ROAD STA 19+00- STA 26+50

HOR SCALE: 1"=40'
VER SCALE: 1"=4'



NOTE: CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS TO VERIFY PROPER SEPARATION.

NOTE: ALL PVC W.M. SHALL HAVE 36" MIN. COVER IN ACCORDANCE WITH HCUD SPECIFICATION #3.4.6

NOTE: MANHOLES WITH DEPTH OF 12' OR GREATER TO BE COATED PER HCUD REQUIREMENTS, ADDENDUM 2017 SECTION 9 (REVISED OR MONOLITHIC FIBERGLASS REINFORCED PLASTIC).

DOMINICK ROAD PLAN AND PROFILE (3)

VERONA HILLS

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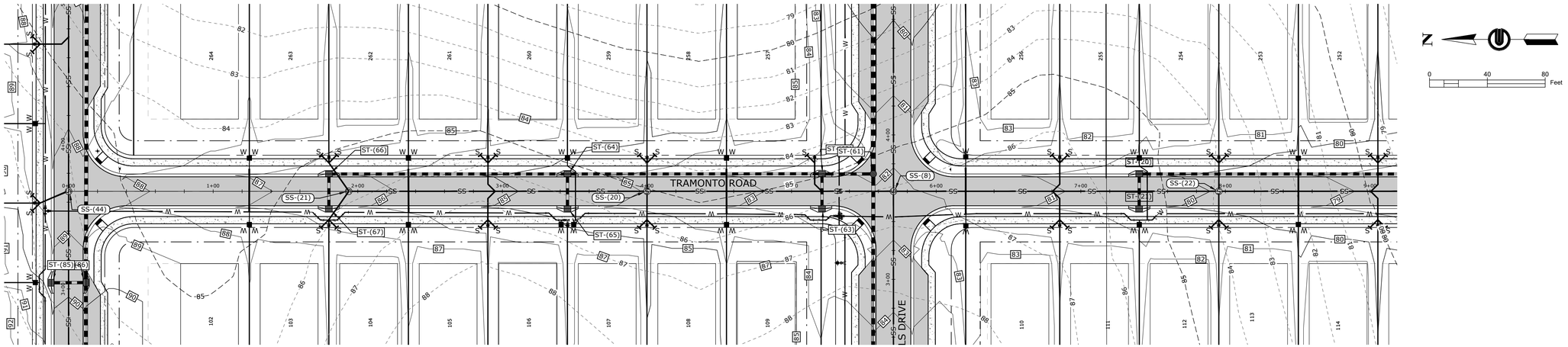
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WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
C-53

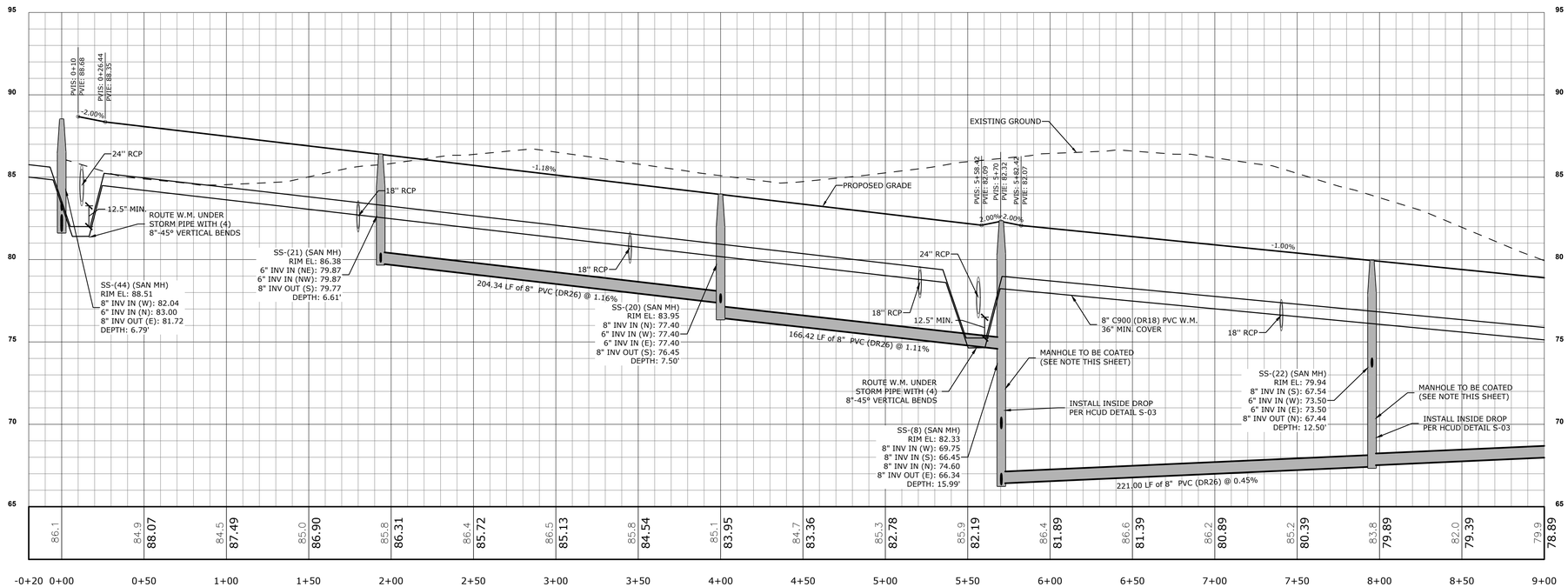
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TRAMONTO ROAD STA 0+00- STA 9+00

HOR SCALE: 1"=40'
VER SCALE: 1"=4'



NOTE: CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS TO VERIFY PROPER SEPARATION.

NOTE: ALL PVC W.M. SHALL HAVE 36" MIN. COVER IN ACCORDANCE WITH HCUD SPECIFICATION #3.4.6

NOTE: MANHOLES WITH DEPTH OF 12' OR GREATER TO BE COATED PER HCUD REQUIREMENTS, ADDENDUM 2017 SECTION 9 (REVISED OR MONOLITHIC FIBERGLASS REINFORCED PLASTIC).

TRAMONTO ROAD
PLAN AND PROFILE (1)

VERONA HILLS

BRIAN M. MALMBERG
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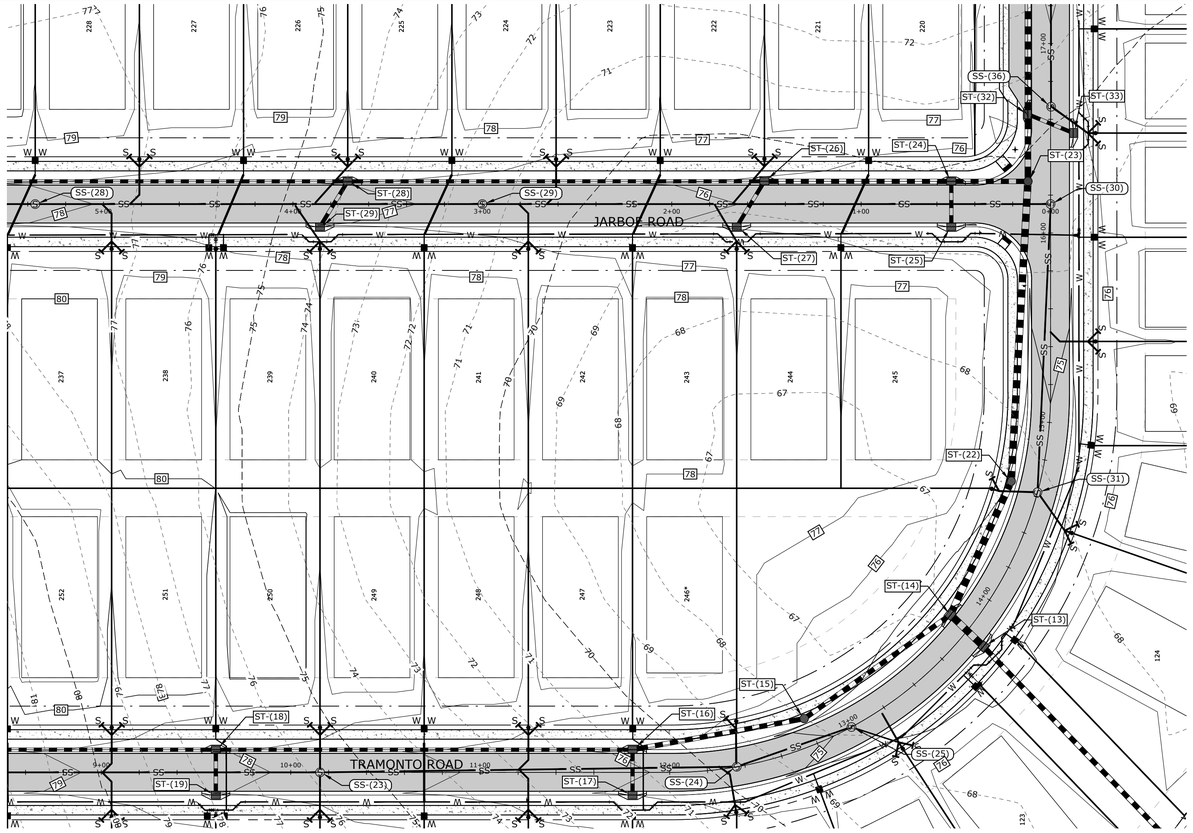
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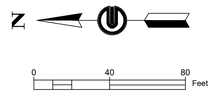
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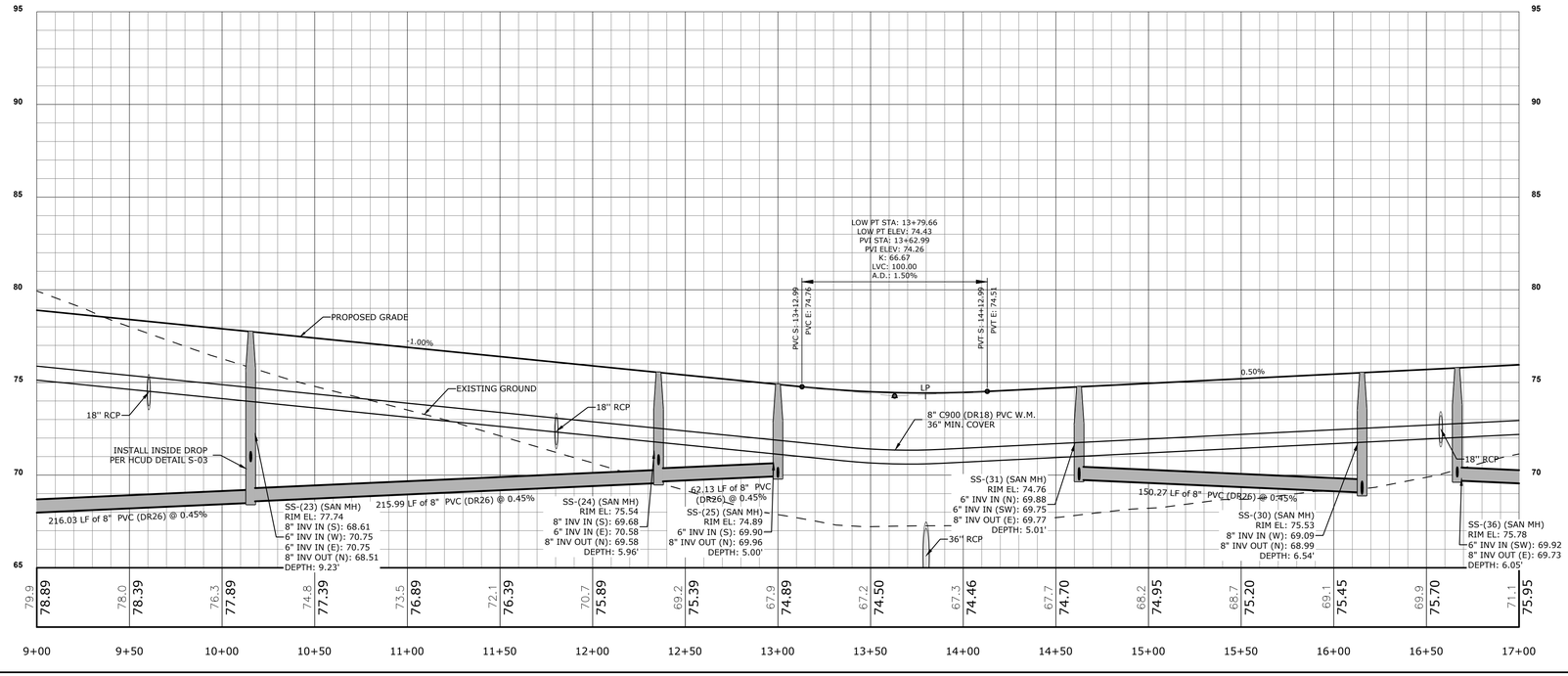
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TRAMONTO ROAD STA 9+00- STA 17+00



HOR SCALE: 1"=40'
VER SCALE: 1"=4'



NOTE: CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS TO VERIFY PROPER SEPARATION.

NOTE: ALL PVC W.M. SHALL HAVE 36" MIN. COVER IN ACCORDANCE WITH HCUD SPECIFICATION #3.4.6

NOTE: MANHOLES WITH DEPTH OF 12' OR GREATER TO BE COATED PER HCUD REQUIREMENTS, ADDENDUM 2017 SECTION 9 (REVISED OR MONOLITHIC FIBERGLASS REINFORCED PLASTIC).

TRAMONTO ROAD
PLAN AND PROFILE (2)

VERONA HILLS

BRIAN M. MALMBERG
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No. 59405
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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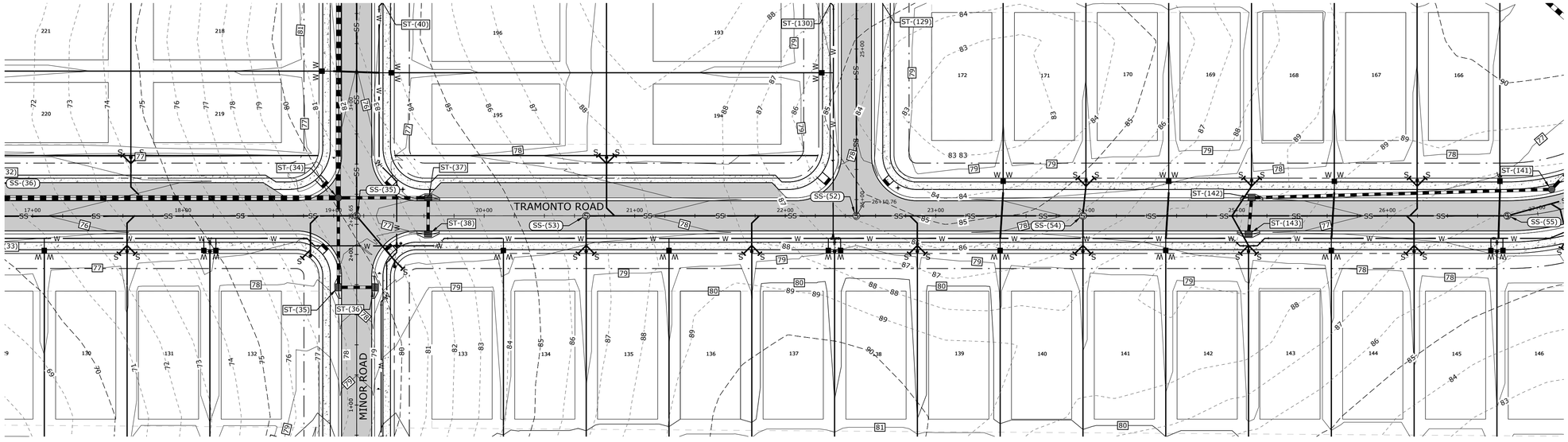
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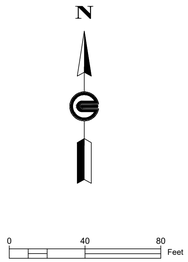
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SHEET
C-55

JOB No.: 24062

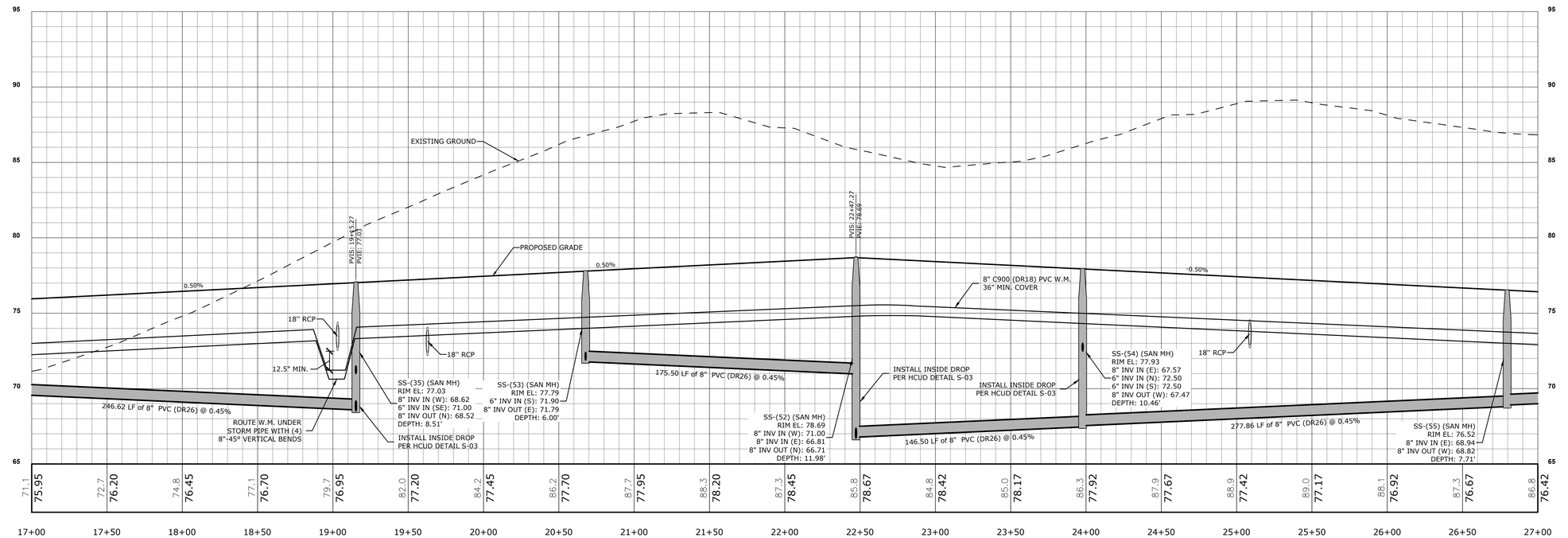
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TRAMONTO ROAD STA 17+00- STA 27+00

HOR SCALE: 1"=40'
VER SCALE: 1"=4'



NOTE: CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS TO VERIFY PROPER SEPARATION.

NOTE: ALL PVC W.M. SHALL HAVE 36" MIN. COVER IN ACCORDANCE WITH HCUD SPECIFICATION #3.4.6

NOTE: MANHOLES WITH DEPTH OF 12' OR GREATER TO BE COATED PER HCUD REQUIREMENTS, ADDENDUM 2017 SECTION 9 (REVISED OR MONOLITHIC FIBERGLASS REINFORCED PLASTIC).

TRAMONTO ROAD PLAN AND PROFILE (3)

VERONA HILLS

BRIAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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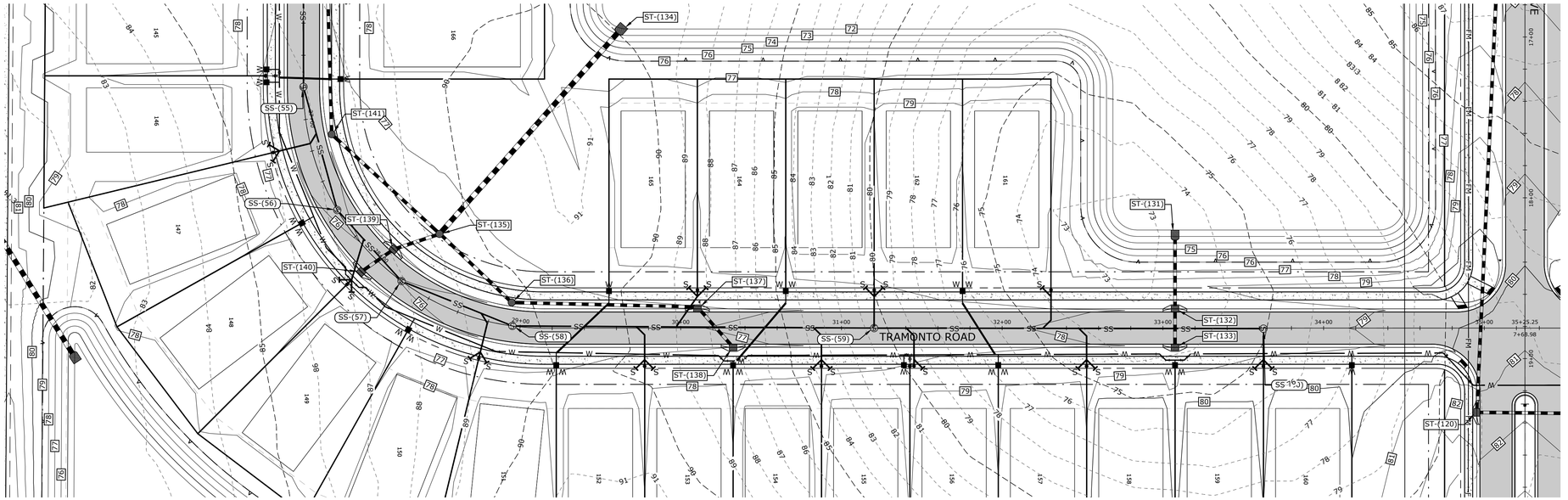
DATE	REV. BY	REV. NO.	REVISION
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WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
C-56

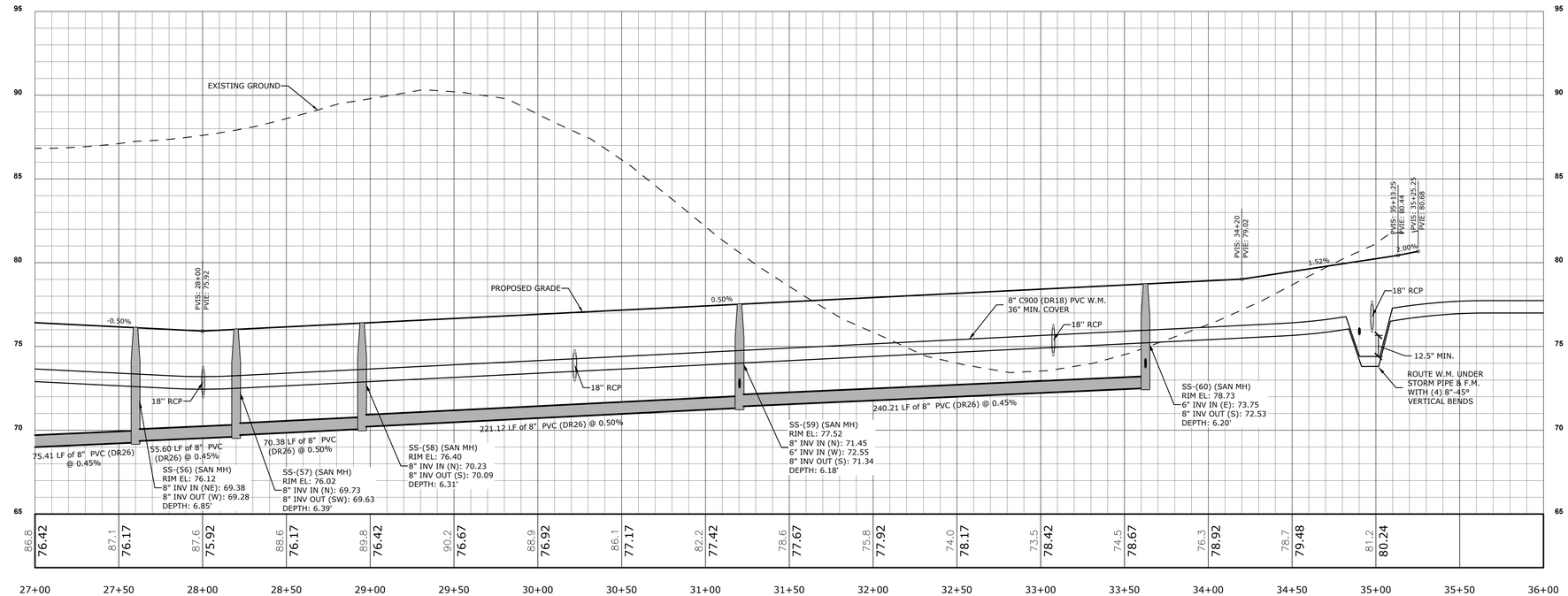
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TRAMONTO ROAD STA 27+00- STA 36+00

HOR SCALE: 1"=40'
VER SCALE: 1"=4'



NOTE: CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS TO VERIFY PROPER SEPARATION.

NOTE: ALL PVC W.M. SHALL HAVE 36" MIN. COVER IN ACCORDANCE WITH HCUD SPECIFICATION #3.4.6

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TRAMONTO ROAD
PLAN AND PROFILE
(4)

VERONA HILLS

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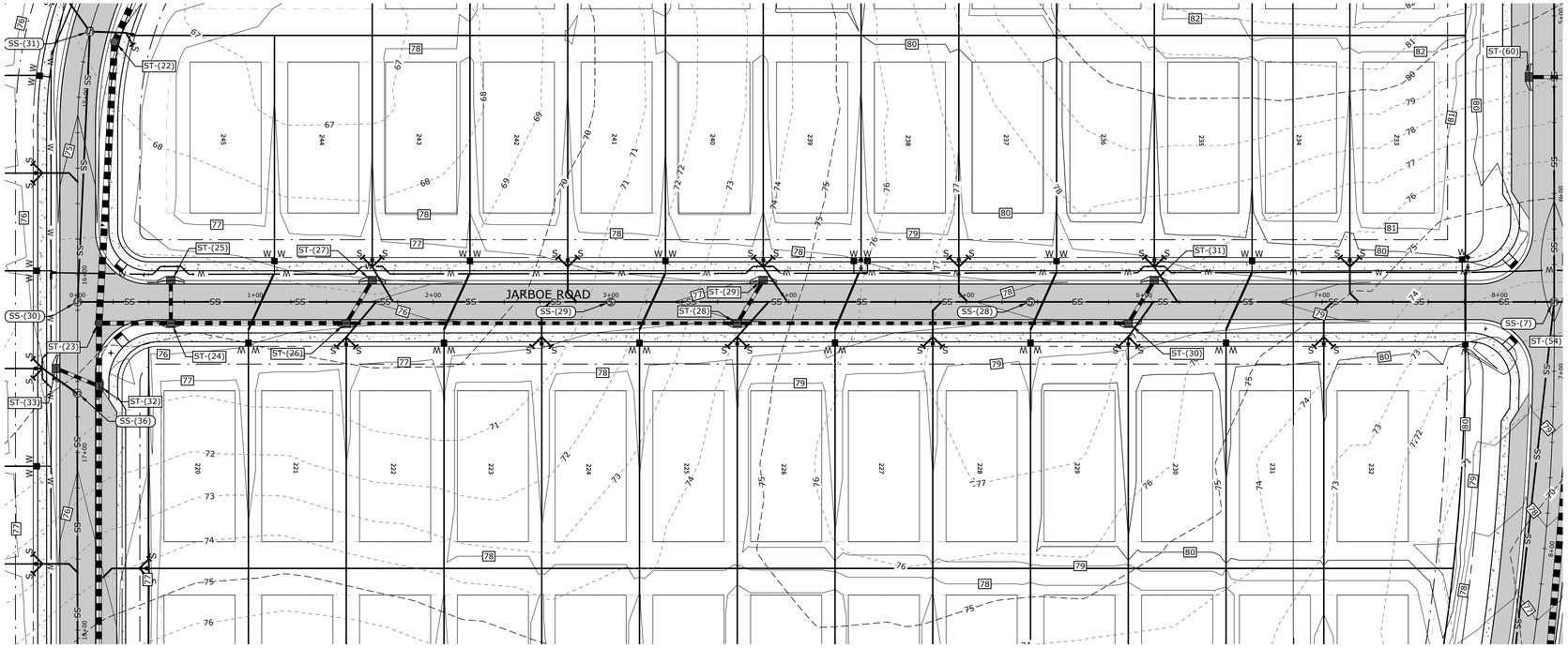
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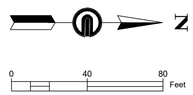
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SHEET
C-57

JOB No.: 24062

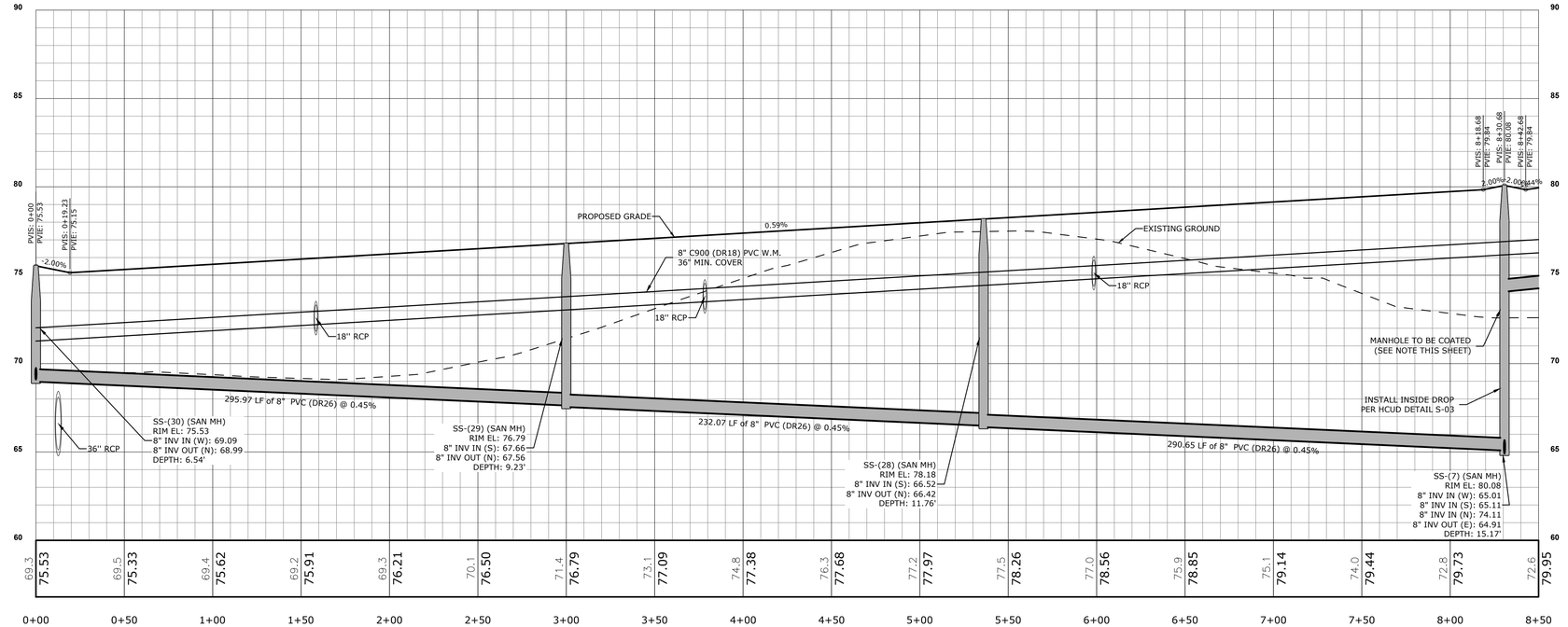
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JARBOE ROAD STA 0+00- STA 8+00

HOR SCALE: 1"=40'
VER SCALE: 1"=4'



NOTE: CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS TO VERIFY PROPER SEPARATION.

NOTE: ALL PVC W.M. SHALL HAVE 36" MIN. COVER IN ACCORDANCE WITH HCUD SPECIFICATION #3.4.6

NOTE: MANHOLES WITH DEPTH OF 12' OR GREATER TO BE COATED PER HCUD REQUIREMENTS, ADDENDUM 2017 SECTION 9 (REVISED OR MONOLITHIC FIBERGLASS REINFORCED PLASTIC).

JARBOE RD PLAN AND PROFILE (1)

VERONA HILLS

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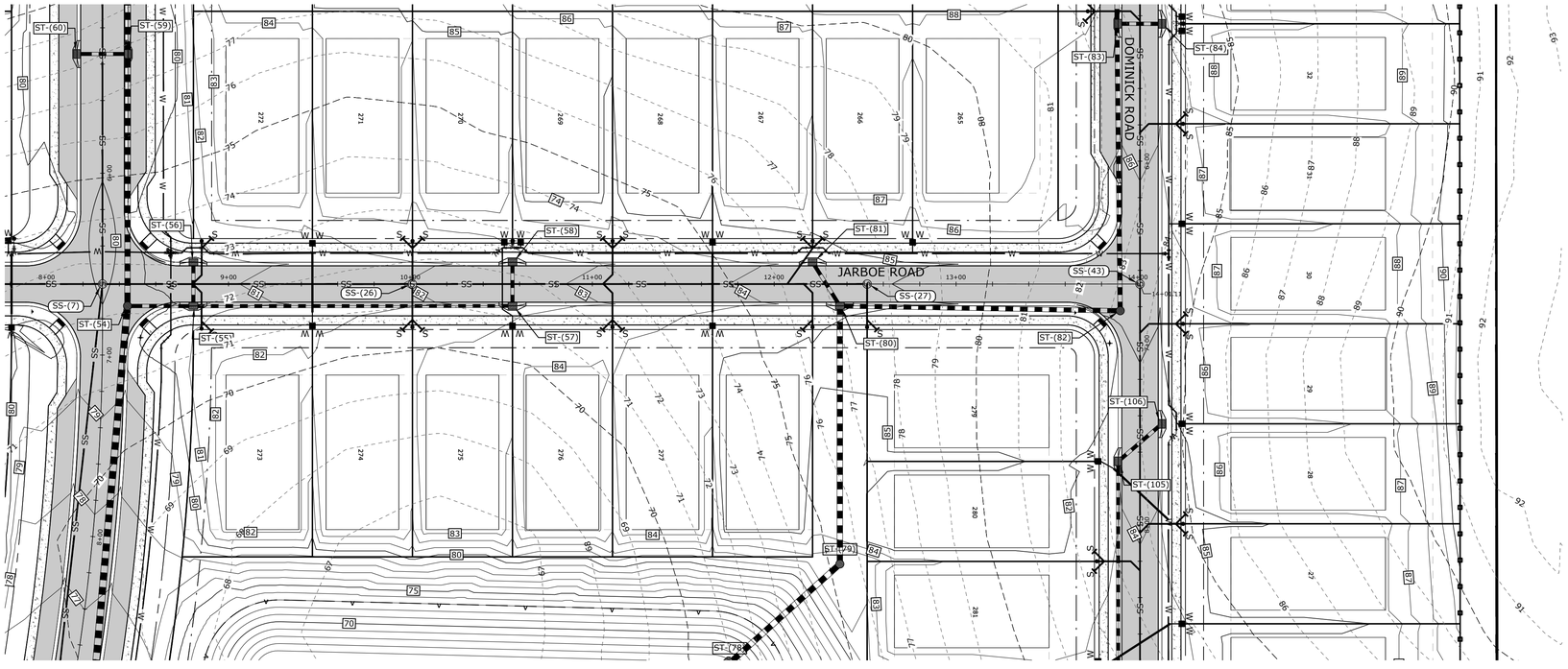
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02/02/26	DG	1	REVISED PER COUNTY COMMENTS

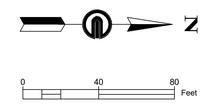
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C-58

JOB No.: 24062

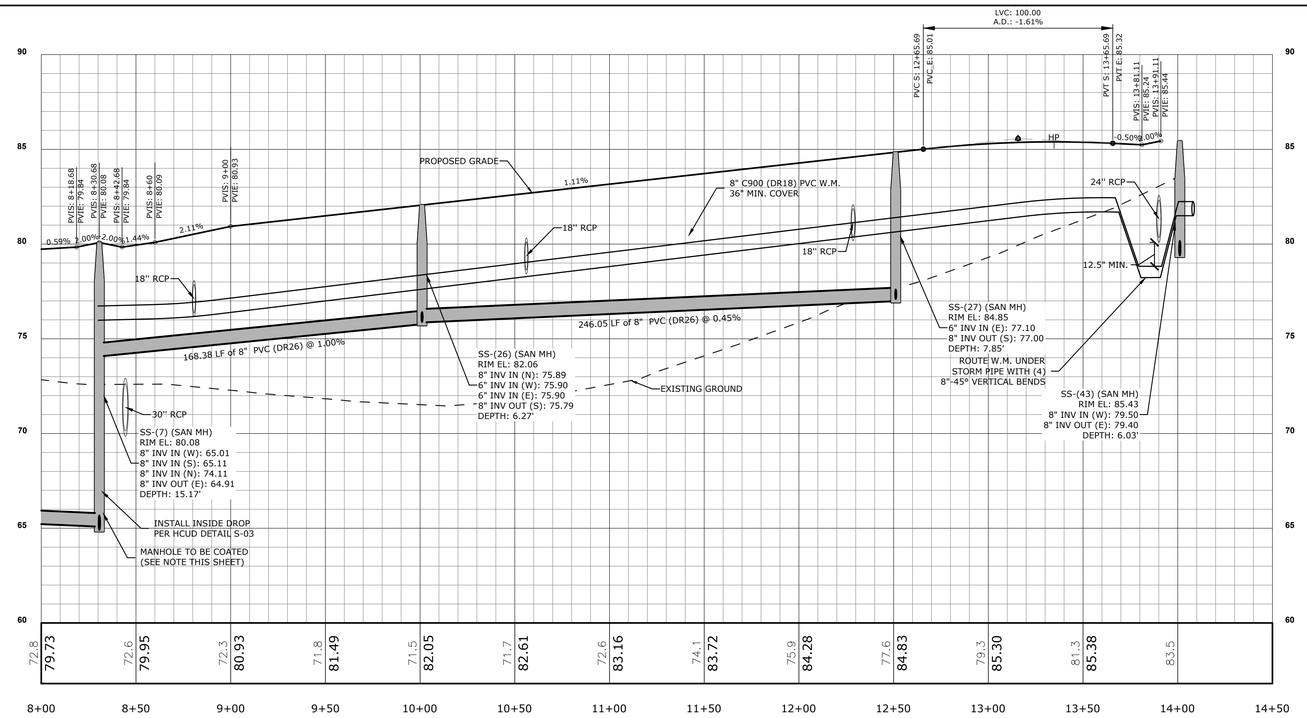
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JARBOE ROAD STA 8+00- STA 14+50

HOR SCALE: 1"=40'
VER SCALE: 1"=4'



NOTE: CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS TO VERIFY PROPER SEPARATION.

NOTE: ALL PVC W.M. SHALL HAVE 36" MIN. COVER IN ACCORDANCE WITH HCUD SPECIFICATION #3.4.6

NOTE: MANHOLES WITH DEPTH OF 12' OR GREATER TO BE COATED PER HCUD REQUIREMENTS, ADDENDUM 2017 SECTION 9 (REVISED OR MONOLITHIC FIBERGLASS REINFORCED PLASTIC).

JARBOE RD PLAN AND PROFILE (2)

VERONA HILLS

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C-59

JOB No.: 24062

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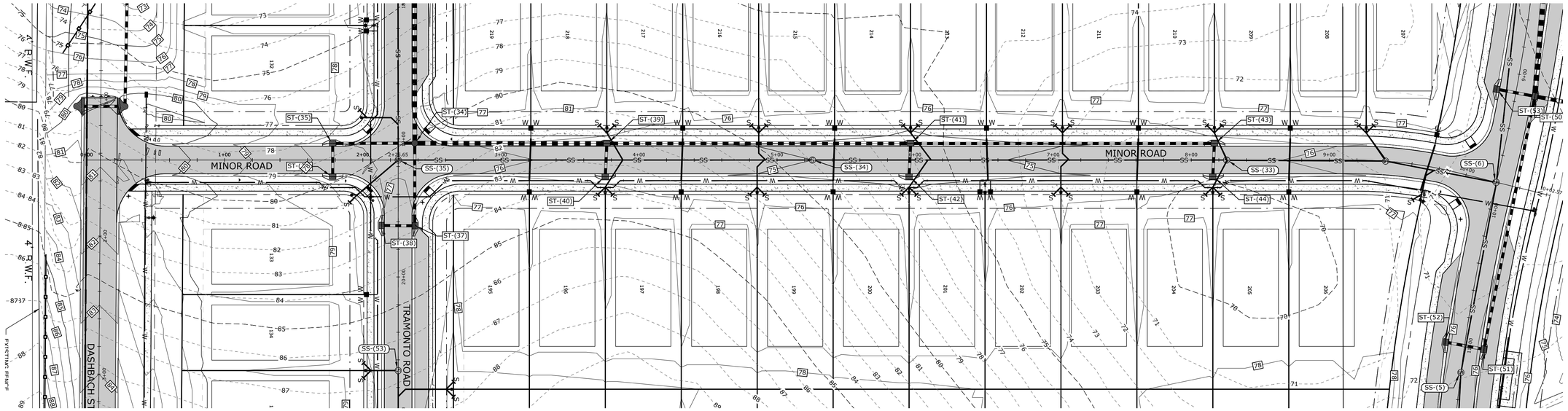
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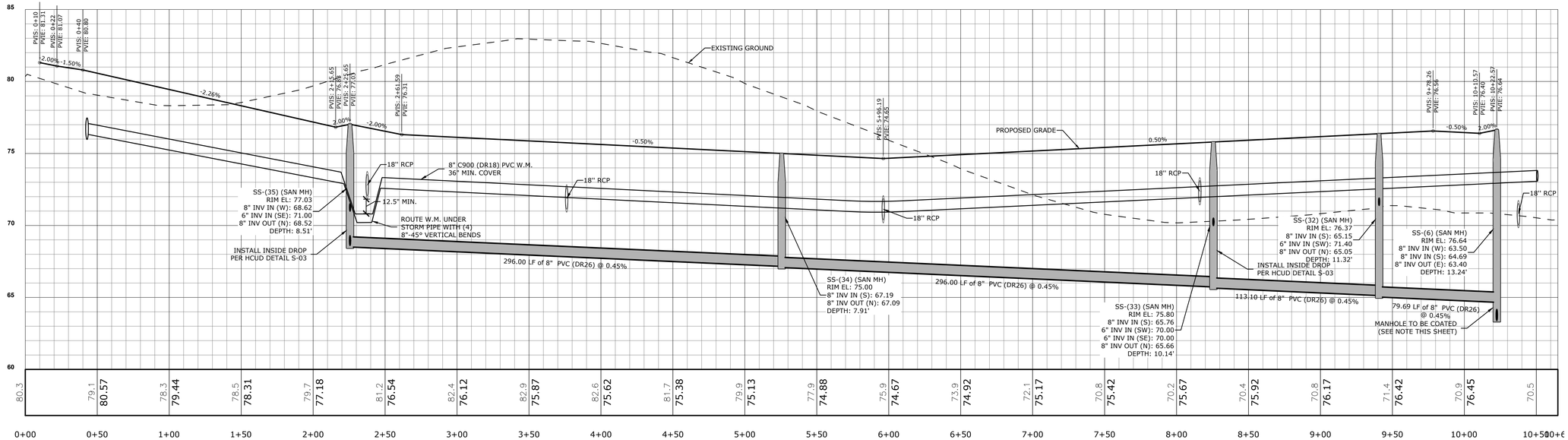
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0 40 80 Feet



MINOR ROAD STA 0+00- STA 8+00

HOR SCALE: 1"=40'
VER SCALE: 1"=4'



MINOR RD PLAN AND PROFILE

VERONA HILLS

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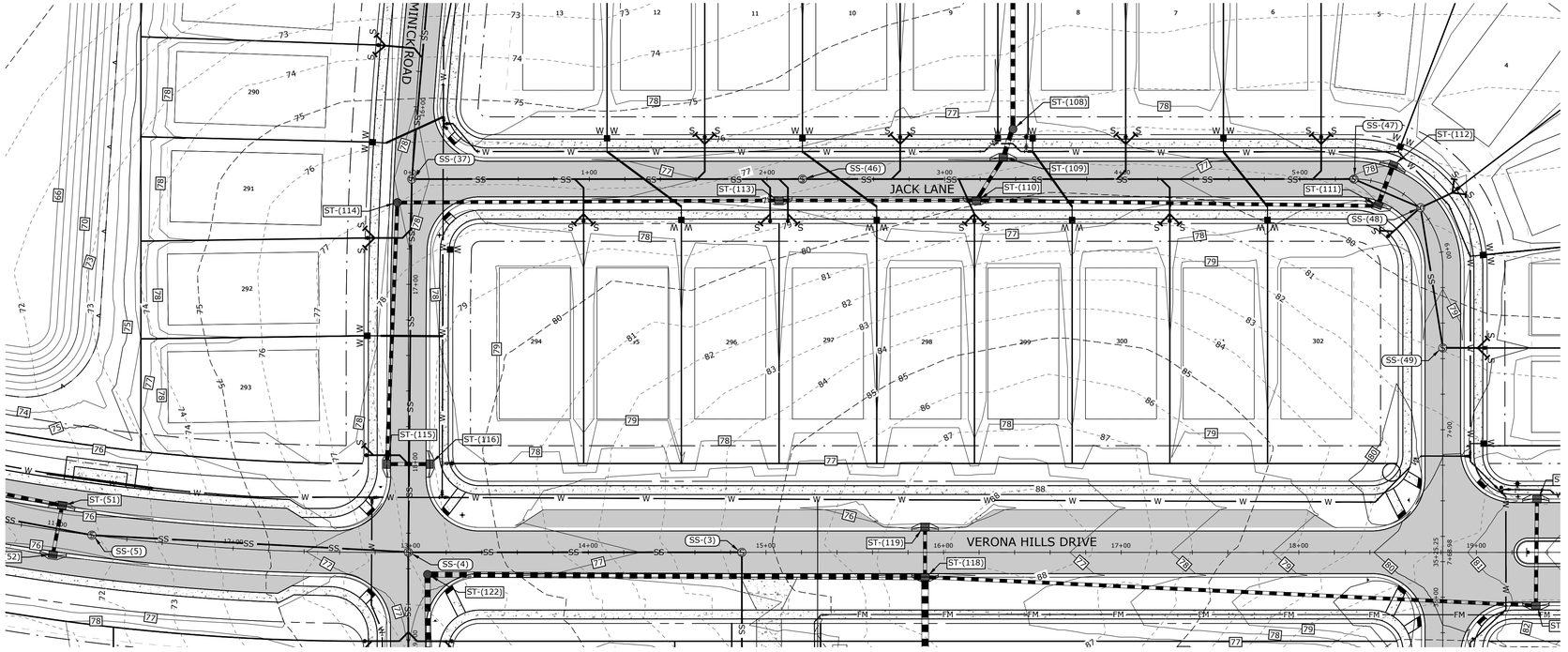
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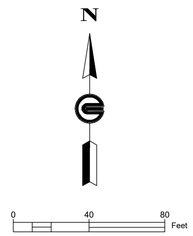
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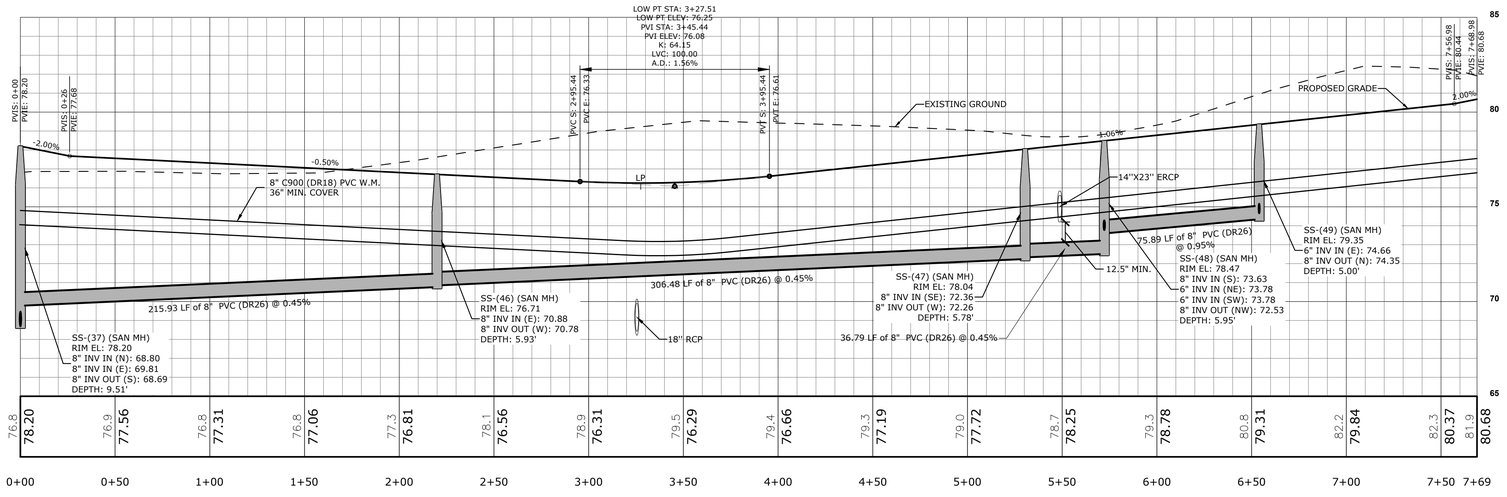
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JACK LANE STA 0+00- STA 7+69



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JACK LANE PLAN AND PROFILE

VERONA HILLS

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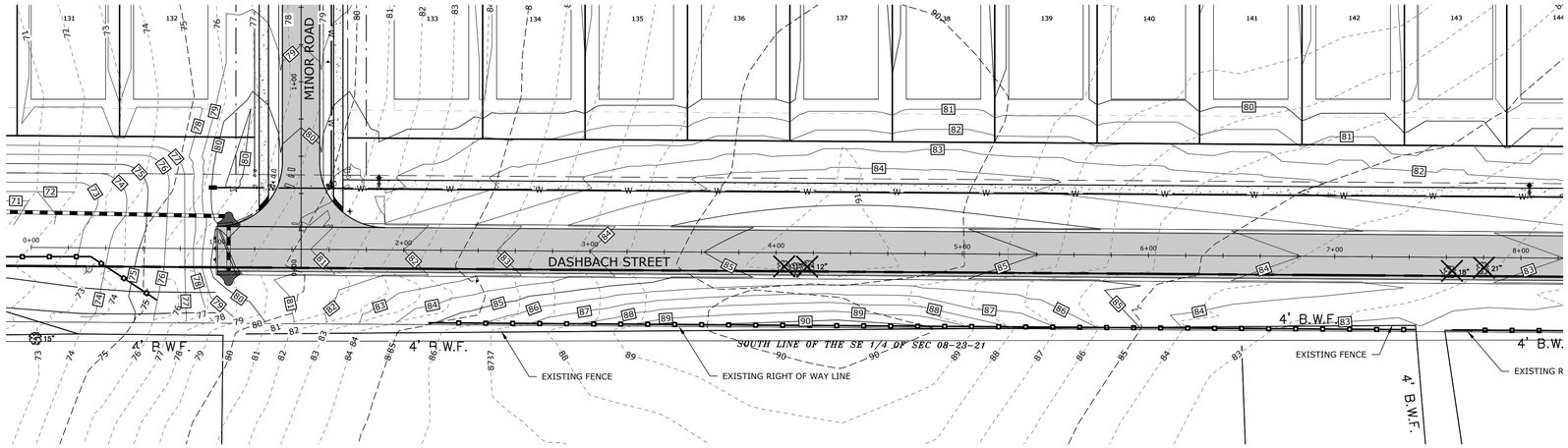
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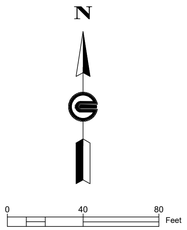
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C-61

JOB No.: 24062

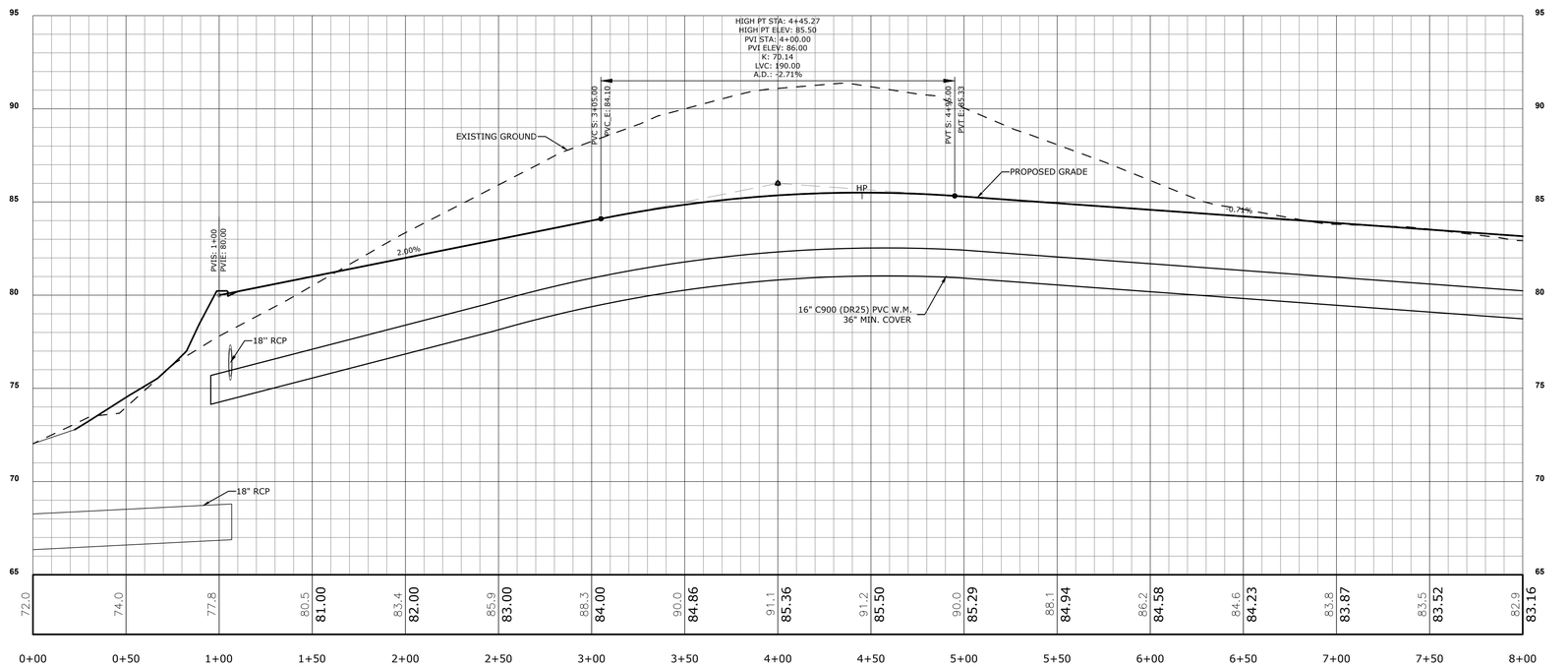
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DASHBACH STREET STA 0+00- STA 8+00

HOR SCALE: 1"=40'
VER SCALE: 1"=4'



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DASHBACH STREET
PLAN AND PROFILE (1)

VERONA HILLS

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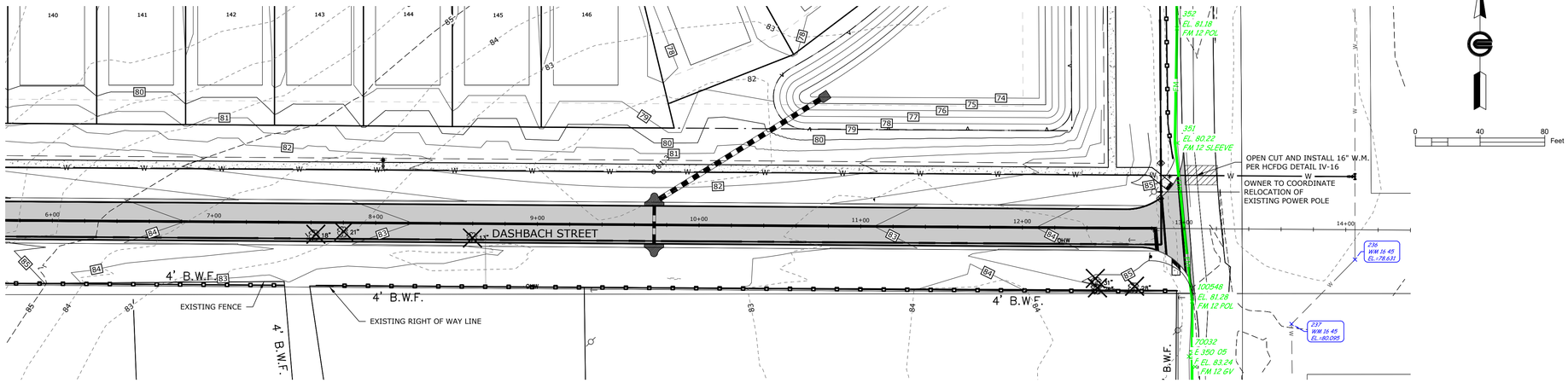
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02/02/26	DG	1	REVISED PER COUNTY COMMENTS

WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
C-62

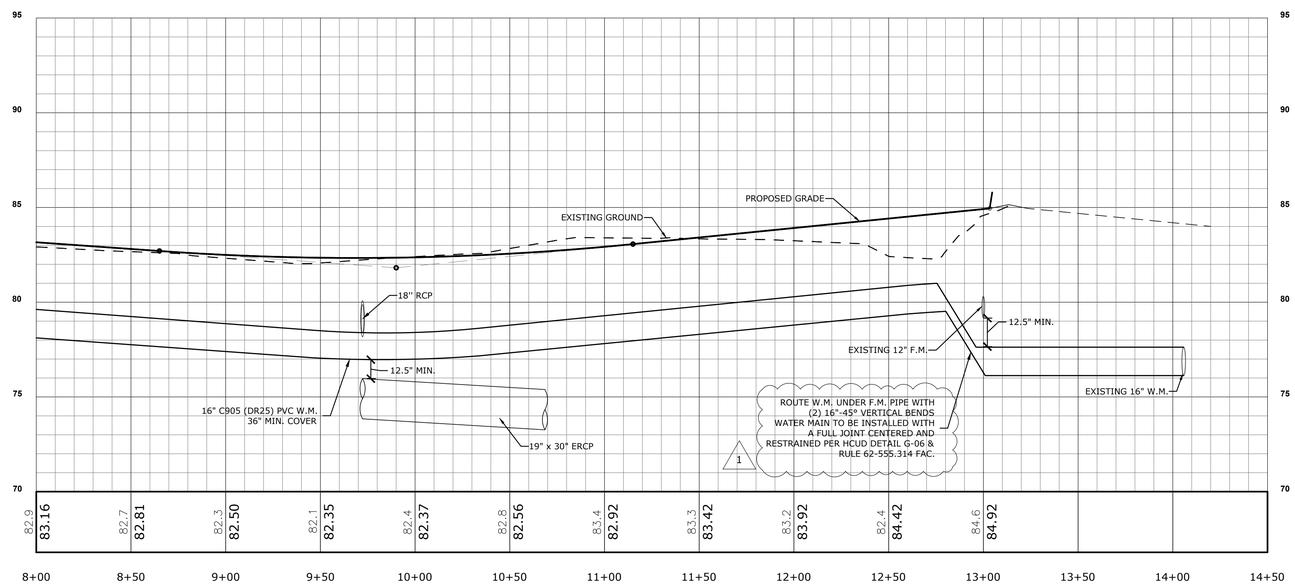
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DASHBACH STREET STA 8+00- STA 14+50

HOR SCALE: 1"=40'
VER SCALE: 1"=4'



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DASHBACH STREET
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VERONA HILLS

BRIAN M. MALMBERG
LICENSE
No. 59405
STATE OF FLORIDA
REGISTERED PROFESSIONAL ENGINEER

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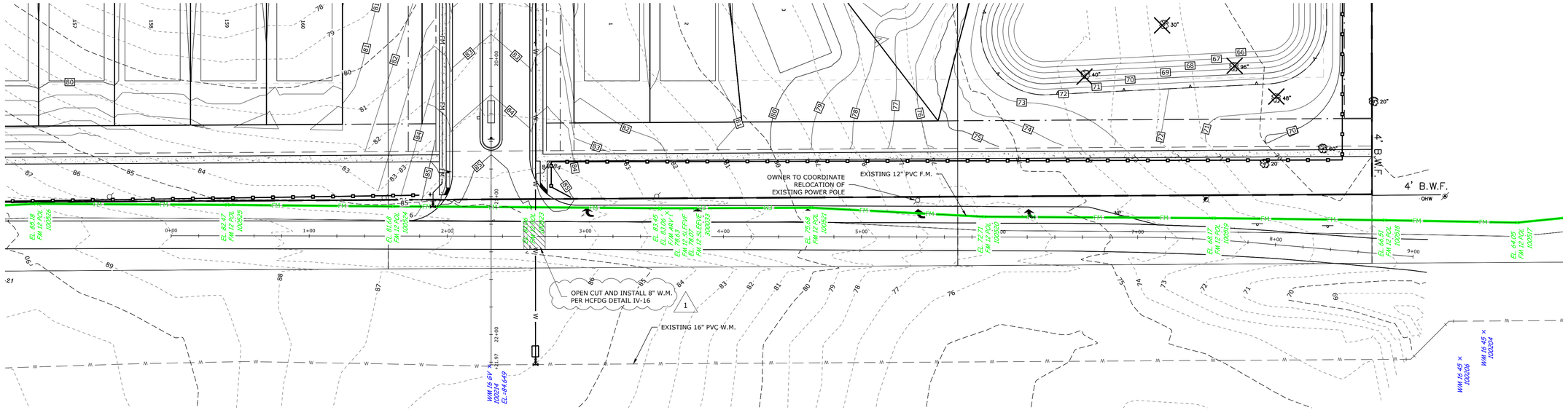
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C-63

JOB No.: 24062

NOTE: CONTRACTOR TO VERIFY ALL UTILITY CROSSINGS TO VERIFY PROPER SEPARATION.

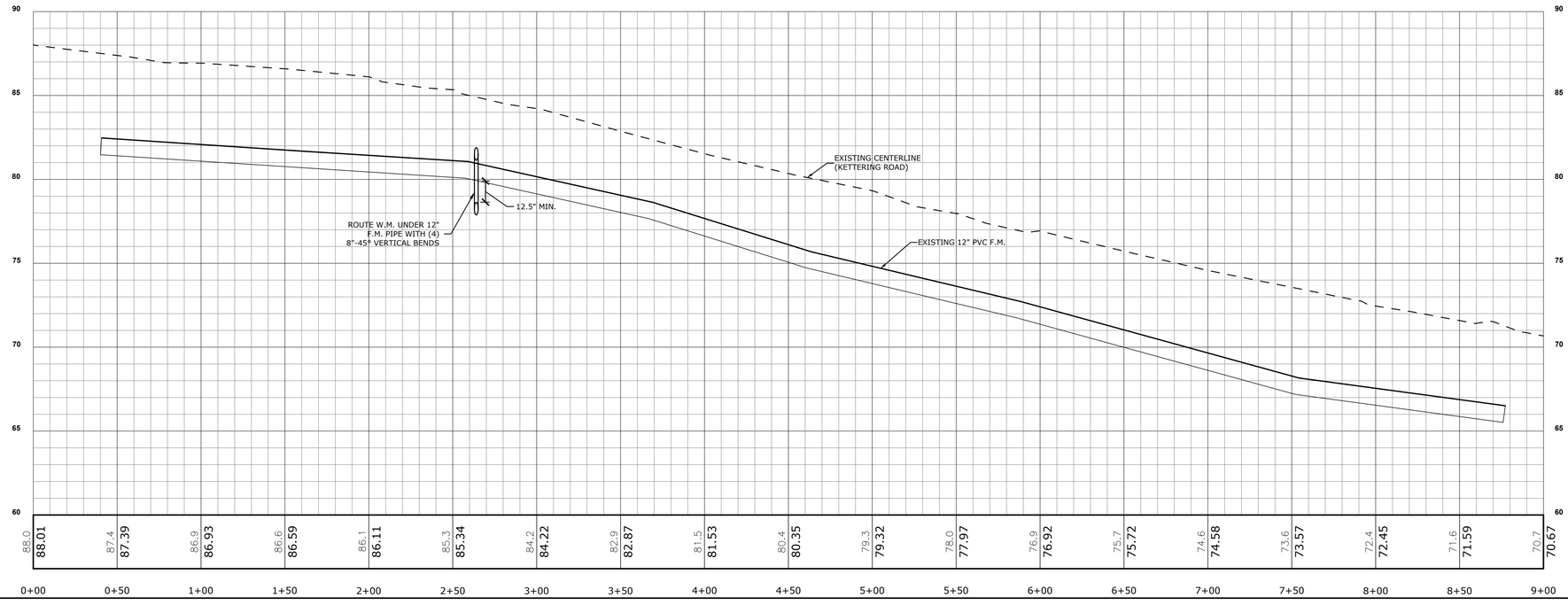
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KETTERING ROAD STA 0+00- STA 9+00

HOR SCALE: 1"=40'
VER SCALE: 1"=4'



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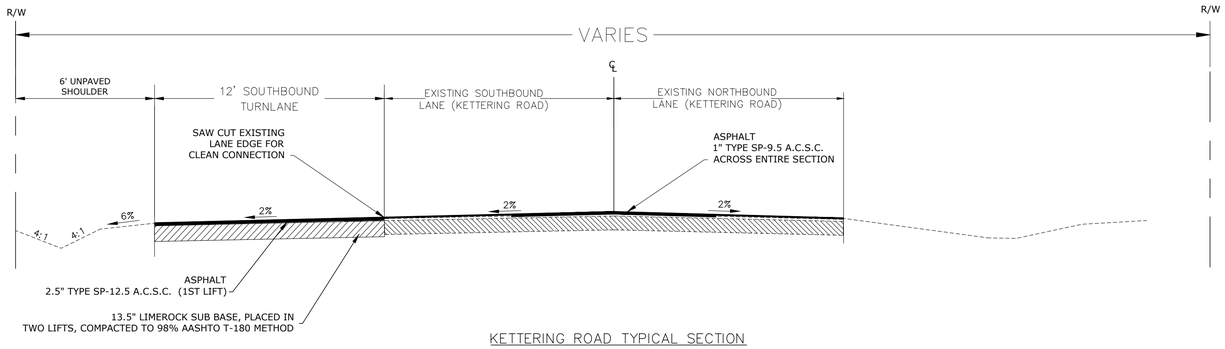
KETTERING ROAD
PLAN AND PROFILE

VERONA HILLS

SHEET
C-64

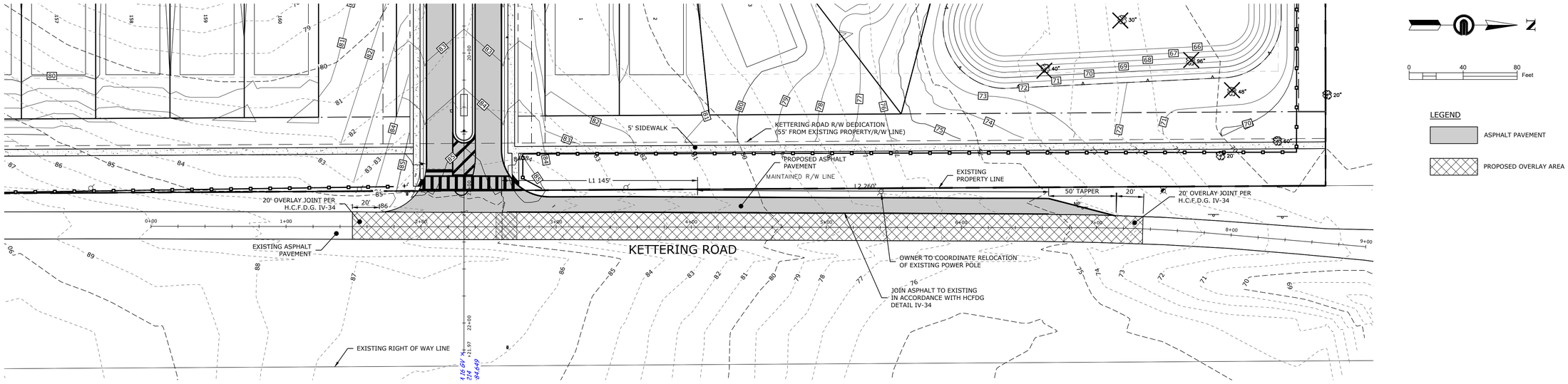
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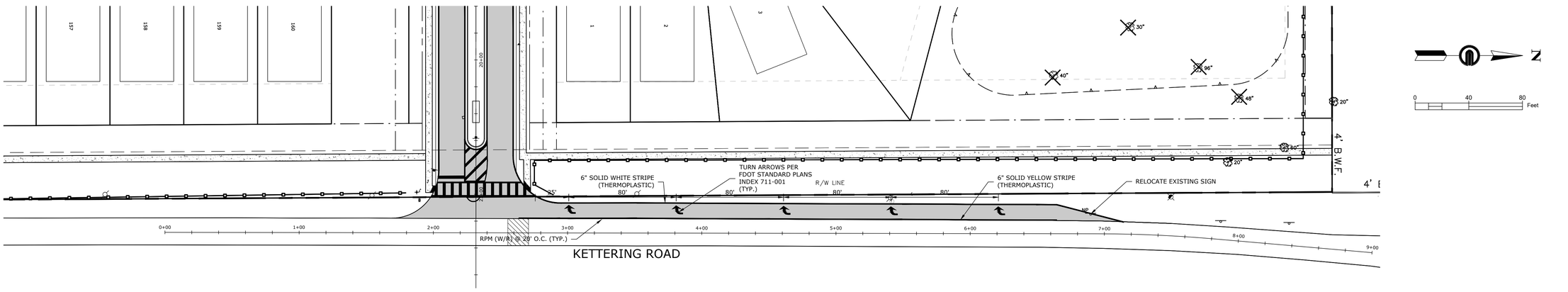


KETTERING ROAD TYPICAL SECTION

NOT TO SCALE



KETTING ROAD PAVING PLAN



KETTING ROAD PAVEMENT MARKING PLAN

0 40 80 Feet

LEGEND

ASPHALT PAVEMENT

PROPOSED OVERLAY AREA

KETTERING ROAD IMPROVEMENT PLANS

VERONA HILLS

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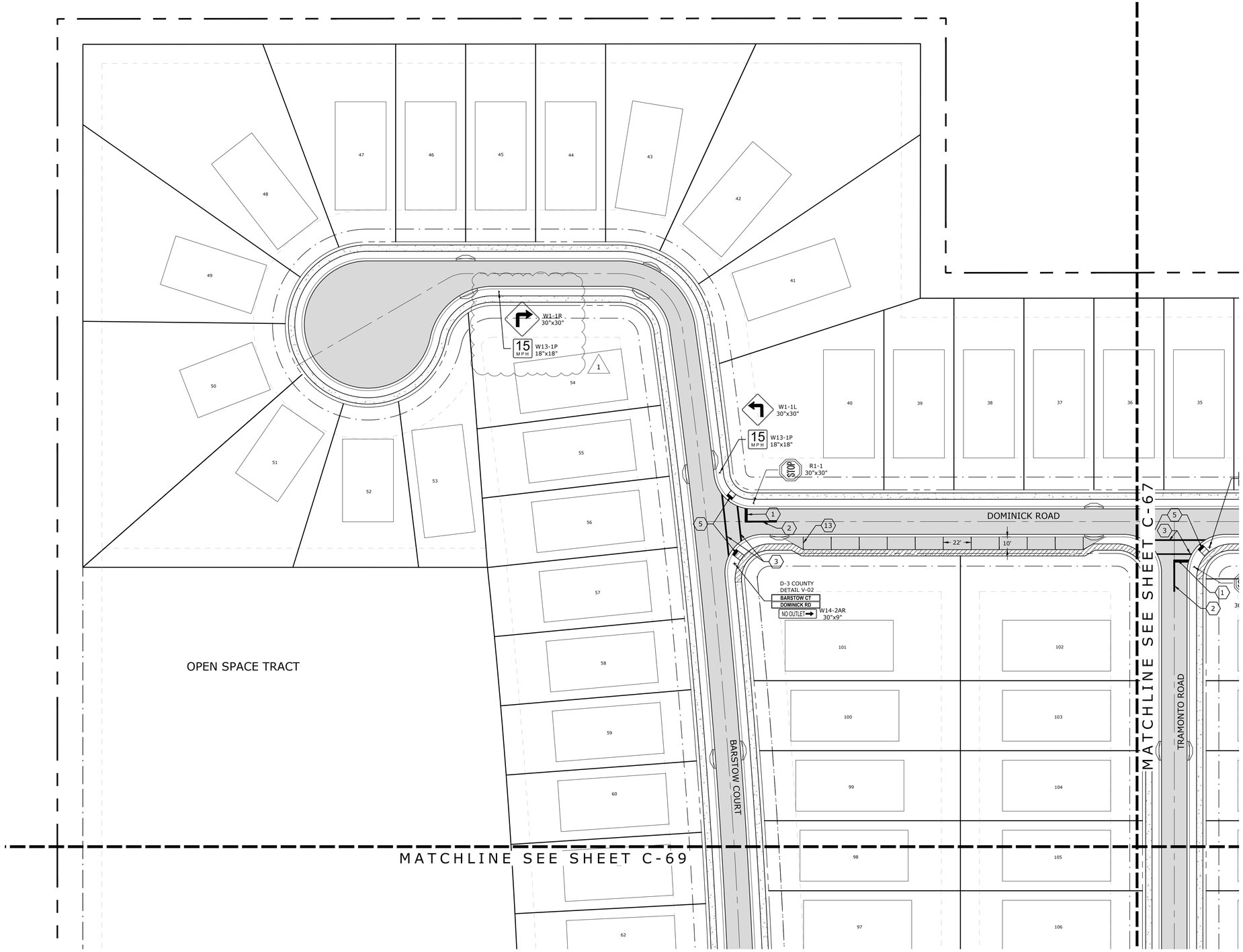
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JOB No.: 24062

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N

0 40 80 Feet

LEGEND

PHASE LINE

SIDEWALK LEGEND

= SIDEWALK TO BE DEVELOPER INSTALLED

= SIDEWALK TO BE HOME BUILDER INSTALLED

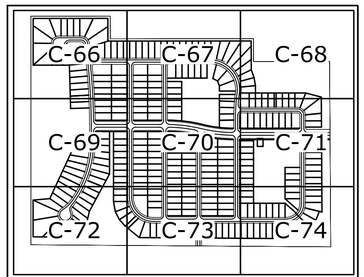
NOTE: ALL STRIPING TO BE THERMOPLASTIC

KEY NOTES:

1. 24" WHITE STOP BAR
2. 25 LF 6" SOLID DOUBLE YELLOW
3. 12" WHITE STANDARD CROSSWALK MARKINGS PER COUNTY DETAILS V-11 & V-17
4. 12" SPECIAL EMPHASIS CROSSWALK MARKINGS PER COUNTY DETAILS V-11 & V-17
5. ADA RAMP 12:1 MAX. SLOPE, 6" RISE MAX. 8' LONG UNLESS NOTED OTHERWISE WITH DETECTABLE WARNING STRIP INSTALLED BY DEVELOPER
6. " PEDESTRIAN CROSSING SIGNS" W11-2 30"x30" / W16-7P 21"x15"
7. STANDARD CROSSWALK PER FDOT INDEX 711-001 (THERMO)
8. HANDICAP PARKING AND SIGNAGE PER HCFDG DETAIL V-09 (THERMO)
9. TYPE "D" CONCRETE CURB PER FDOT INDEX NO: 520-001
10. TYPE "F" CONCRETE CURB PER FDOT INDEX NO: 520-001 .
11. CONCRETE WHEEL STOPS
12. 4" SOLID WHITE STRIPE (PAINT)
13. 6" SOLID WHITE STRIPE (THERMO)
14. 6" SOLID DOUBLE YELLOW STRIPE (THERMO)
15. 6" SOLID YELLOW STRIPE (THERMO)
16. 18" SOLID WHITE STRIPE (THERMO)

SIGNAGE AND STRIPING NOTES:

1. ALL STRIPING WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE THERMOPLASTIC.
2. STOP BARS TO BE LOCATED 4' BEHIND CROSSWALKS WHERE APPLICABLE. REFER TO HC DETAIL V-01 AND V-07 OF HERNANDO COUNTY FACILITIES DESIGN GUIDELINES.



KEY MAP

SIDEWALK SIGNAGE AND STRIPING PLAN (1)

VERONA HILLS

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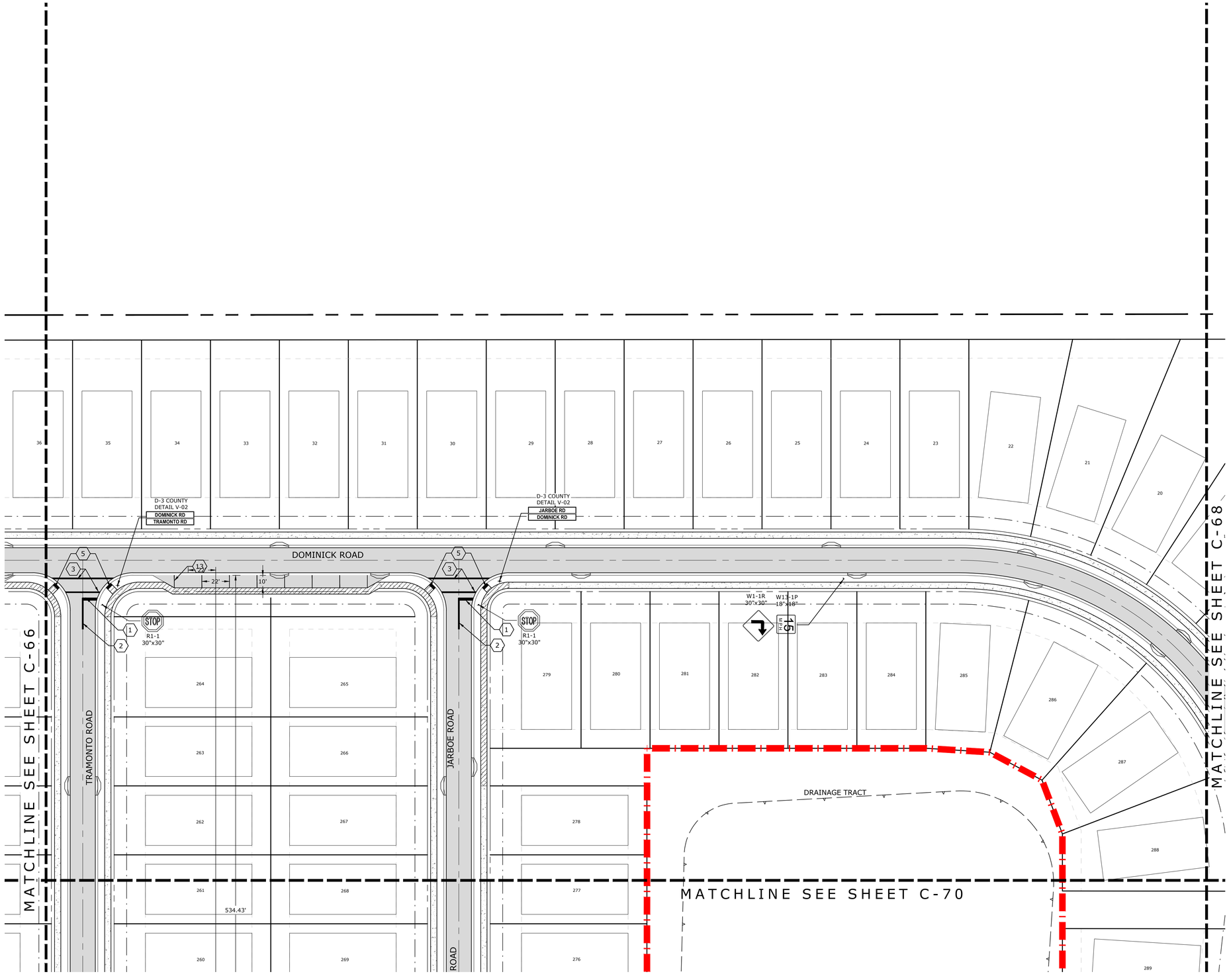
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WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET

C-66

JOB No.: 24062



N

0 40 80 Feet

LEGEND

PHASE LINE

SIDEWALK LEGEND

= SIDEWALK TO BE DEVELOPER INSTALLED

= SIDEWALK TO BE HOME BUILDER INSTALLED

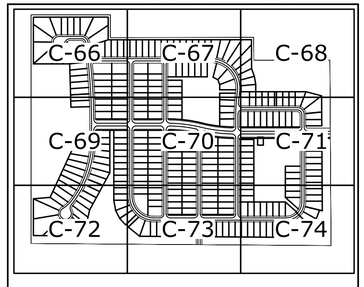
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8. HANDICAP PARKING AND SIGNAGE PER HCFDG DETAIL V-09 (THERMO)
9. TYPE "D" CONCRETE CURB PER FDOT INDEX NO: 520-001
10. TYPE "F" CONCRETE CURB PER FDOT INDEX NO: 520-001 .
11. CONCRETE WHEEL STOPS
12. 4" SOLID WHITE STRIPE (PAINT)
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15. 6" SOLID YELLOW STRIPE (THERMO)
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SIGNAGE AND STRIPING NOTES:

1. ALL STRIPING WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE THERMOPLASTIC.
2. STOP BARS TO BE LOCATED 4' BEHIND CROSSWALKS WHERE APPLICABLE. REFER TO HC DETAIL V-01 AND V-07 OF HERNANDO COUNTY FACILITIES DESIGN GUIDELINES.



KEY MAP

SIDEWALK SIGNAGE AND STRIPING PLAN (2)

VERONA HILLS

BRIAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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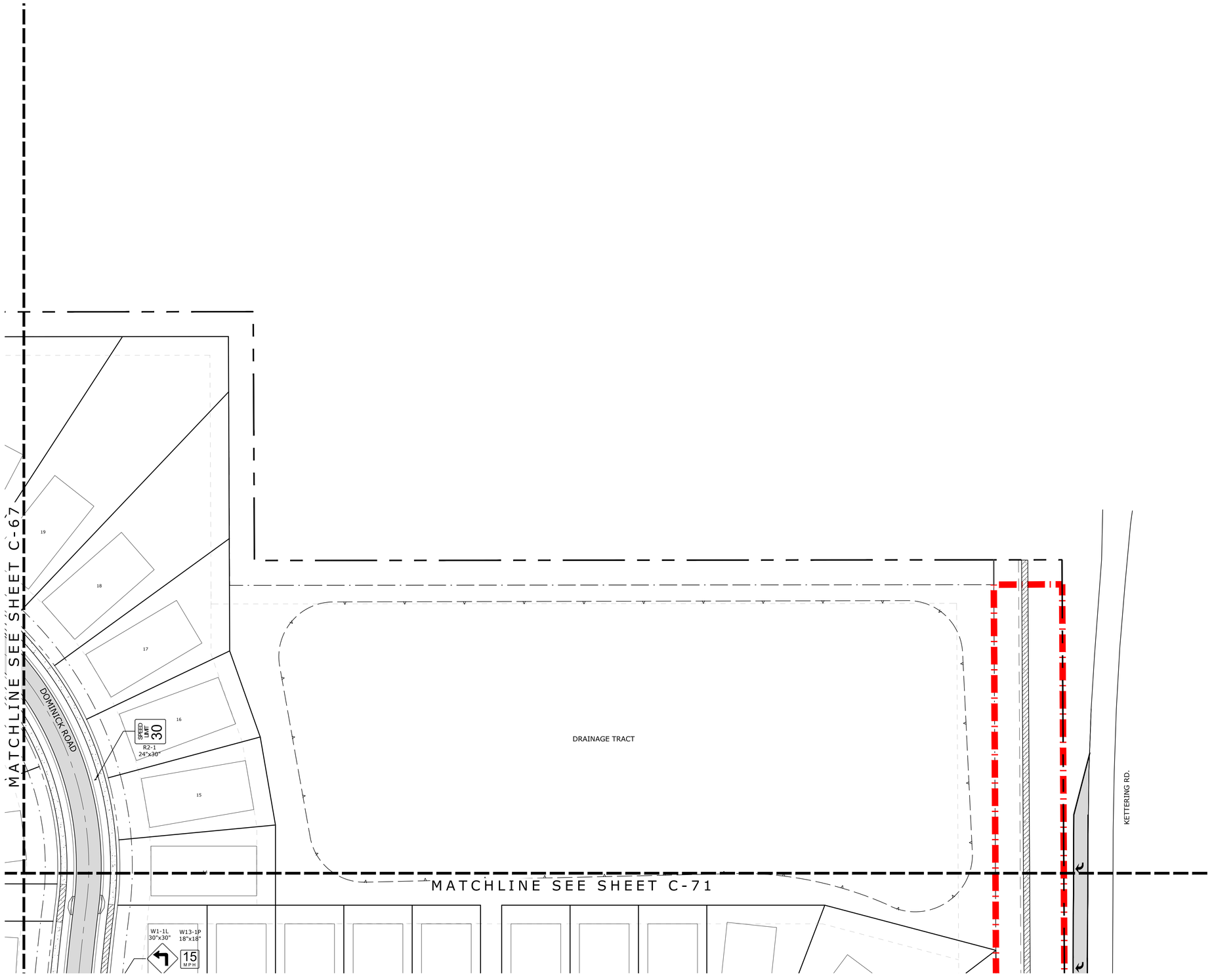
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C-67

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N

0 40 80 Feet

LEGEND

PHASE LINE

SIDEWALK LEGEND

= SIDEWALK TO BE DEVELOPER INSTALLED

= SIDEWALK TO BE HOME BUILDER INSTALLED

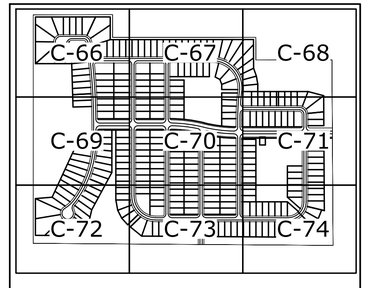
NOTE: ALL STRIPING TO BE THERMOPLASTIC

KEY NOTES:

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2. 25 LF 6" SOLID DOUBLE YELLOW
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KEY MAP

SIDEWALK SIGNAGE AND STRIPING PLAN (3)

VERONA HILLS

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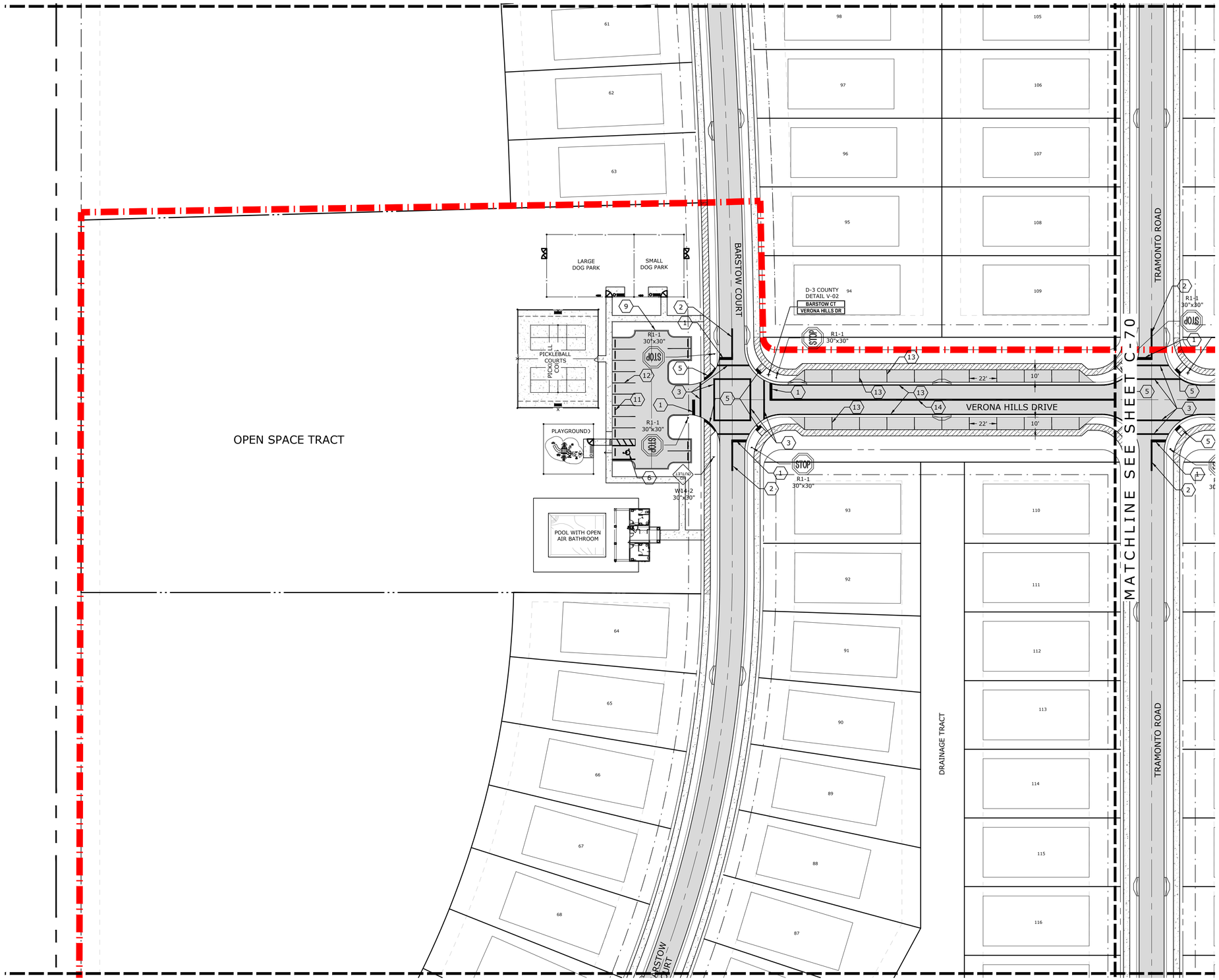
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SHEET
C-68

JOB No.: 24062

MATCHLINE SEE SHEET C-66



MATCHLINE SEE SHEET C-70

MATCHLINE SEE SHEET C-72

N

0 40 80 Feet

LEGEND

PHASE LINE

SIDEWALK LEGEND

= SIDEWALK TO BE DEVELOPER INSTALLED

= SIDEWALK TO BE HOME BUILDER INSTALLED

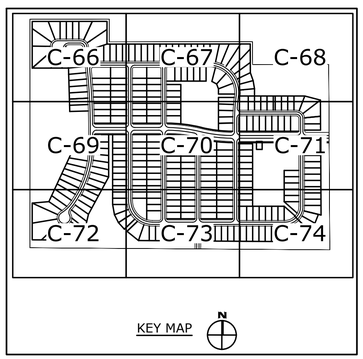
NOTE: ALL STRIPING TO BE THERMOPLASTIC

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KEY MAP

SIDEWALK SIGNAGE AND STRIPING PLAN (4)

VERONA HILLS

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SHEET

C-69

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MATCHLINE SEE SHEET C-67

MATCHLINE SEE SHEET C-69

MATCHLINE SEE SHEET C-71

MATCHLINE SEE SHEET C-73

TRAMONTO ROAD

JARBOE ROAD

MINOR ROAD

VERONA HILLS DRIVE

534.43'

DRAINAGE TRACT

10' TREE TRACT

D-3 COUNTY DETAIL V-02
TRAMONTO RD
VERONA HILLS DR

D-3 COUNTY DETAIL V-02
JARBOE RD
VERONA HILLS DR

D-3 COUNTY DETAIL V-02
MINOR RD
VERONA HILLS DR

R1-1 30"x30"

STOP

22'

10'

N

0 40 80 Feet

LEGEND

PHASE LINE

SIDEWALK LEGEND

= SIDEWALK TO BE DEVELOPER INSTALLED

= SIDEWALK TO BE HOME BUILDER INSTALLED

NOTE: ALL STRIPING TO BE THERMOPLASTIC

KEY NOTES:

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KEY MAP

C-66 C-67 C-68
C-69 C-70 C-71
C-72 C-73 C-74

SIDEWALK SIGNAGE AND STRIPING PLAN (5)

VERONA HILLS

BRIAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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SHEET
C-70

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MATCHLINE SEE SHEET C-68

MATCHLINE SEE SHEET C-70

MATCHLINE SEE SHEET C-74

JACK LANE

VERONA HILLS DRIVE

KETTERING RD.

DOMINICK ROAD

TRAMONTO ROAD

W1-1L 30"x30" W13-1P 18"x18" 15 MPH

R1-1 30"x30" STOP

W1-1R 30"x30" W13-1P 18"x18" 15 MPH

D-3 COUNTY DETAIL V-02 BAD AXE LN JACK WAY

D-3 COUNTY DETAIL V-02 DOMINICK RD VERONA HILLS DR

D-3 COUNTY DETAIL V-02 JACK WAY VERONA HILLS DR

D-3 COUNTY DETAIL V-02 KETTERING RD VERONA HILLS DR

SPEED LIMIT 30

R2-1 24"x30"

55' R/W DEDICATION

22' 10' 22' 10'

TYPE "1" OBJECT MARKER 18"x18"

MONUMENT SIGN

LIFT STATION TRACT

DRAINAGE TRACT

294 295 296 297 298 299 300 301 302

182 181 180 179 178 177

160 159 158 157 156 161 162

N

0 40 80 Feet

LEGEND

PHASE LINE

SIDEWALK LEGEND

= SIDEWALK TO BE DEVELOPER INSTALLED

= SIDEWALK TO BE HOME BUILDER INSTALLED

NOTE: ALL STRIPING TO BE THERMOPLASTIC

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KEY MAP

C-66 C-67 C-68 C-69 C-70 C-71 C-72 C-73 C-74

SIDEWALK SIGNAGE AND STRIPING PLAN (6)

VERONA HILLS

PLAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER

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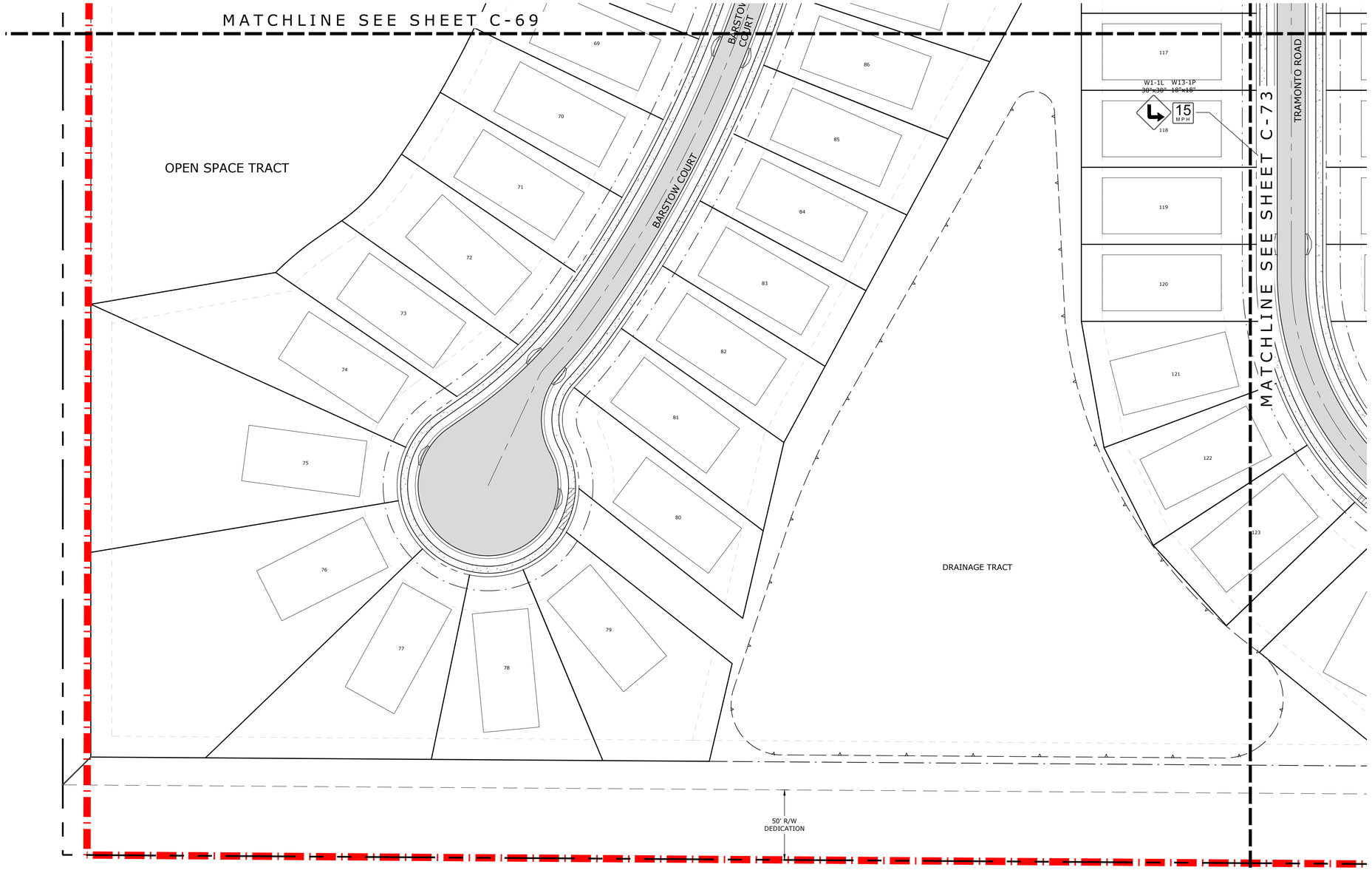
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N

0 40 80 Feet

LEGEND

PHASE LINE

SIDEWALK LEGEND

= SIDEWALK TO BE DEVELOPER INSTALLED

= SIDEWALK TO BE HOME BUILDER INSTALLED

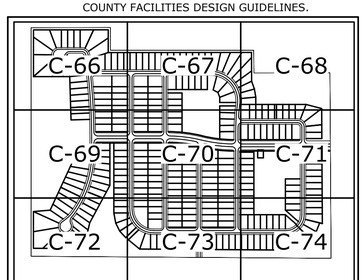
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KEY MAP N

SIDEWALK SIGNAGE AND STRIPING PLAN (7)

VERONA HILLS

PLAT LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER
M. MALMBERG

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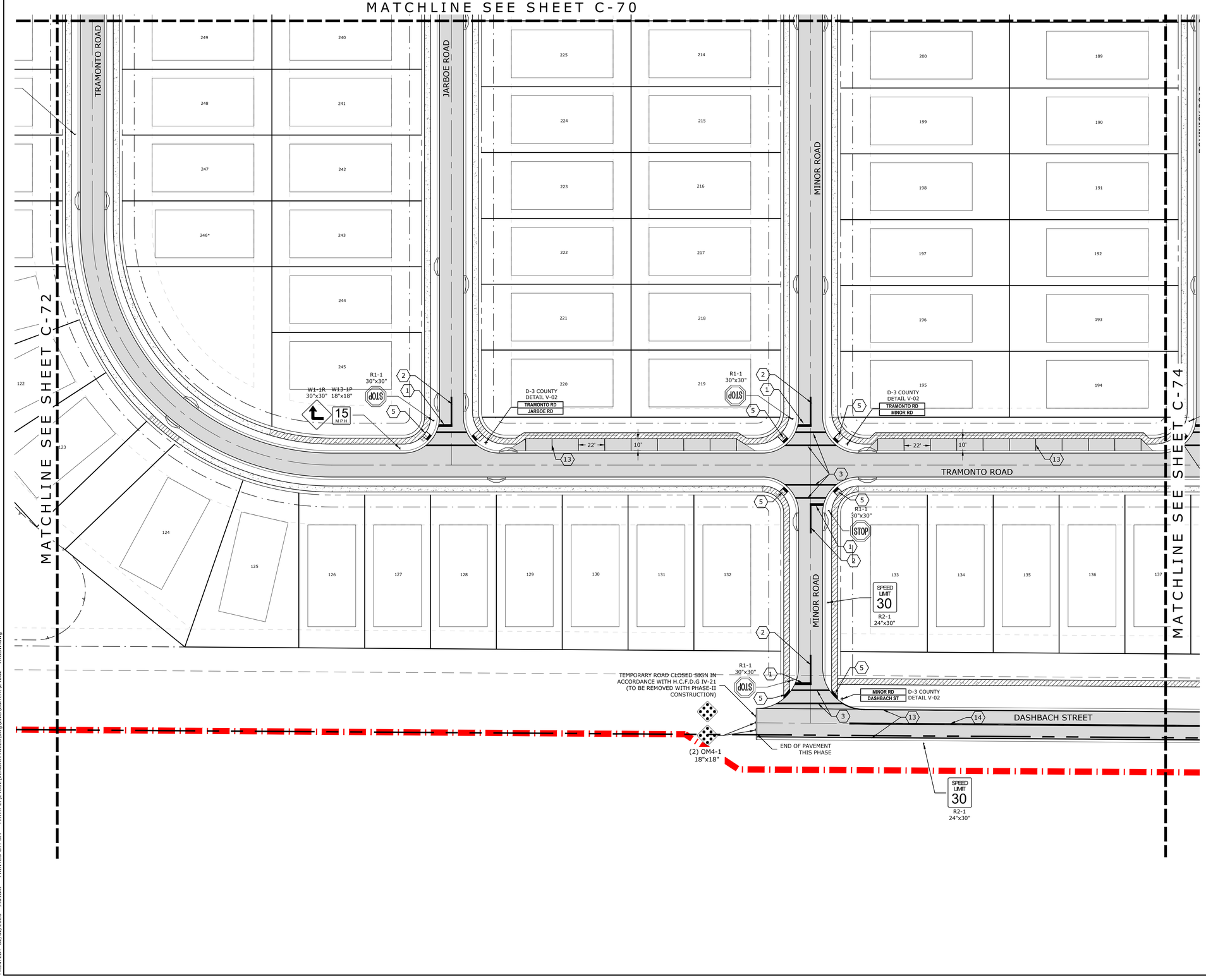
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SHEET
C-72

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N

0 40 80 Feet

LEGEND

PHASE LINE

SIDEWALK LEGEND

= SIDEWALK TO BE DEVELOPER INSTALLED

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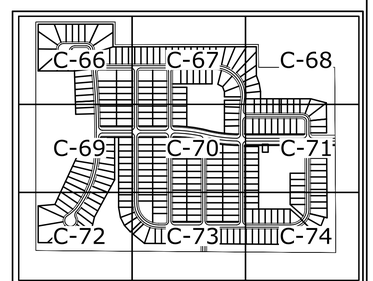
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KEY MAP

SIDEWALK SIGNAGE AND STRIPING PLAN (8)

VERONA HILLS

BRIAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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EB-0000142

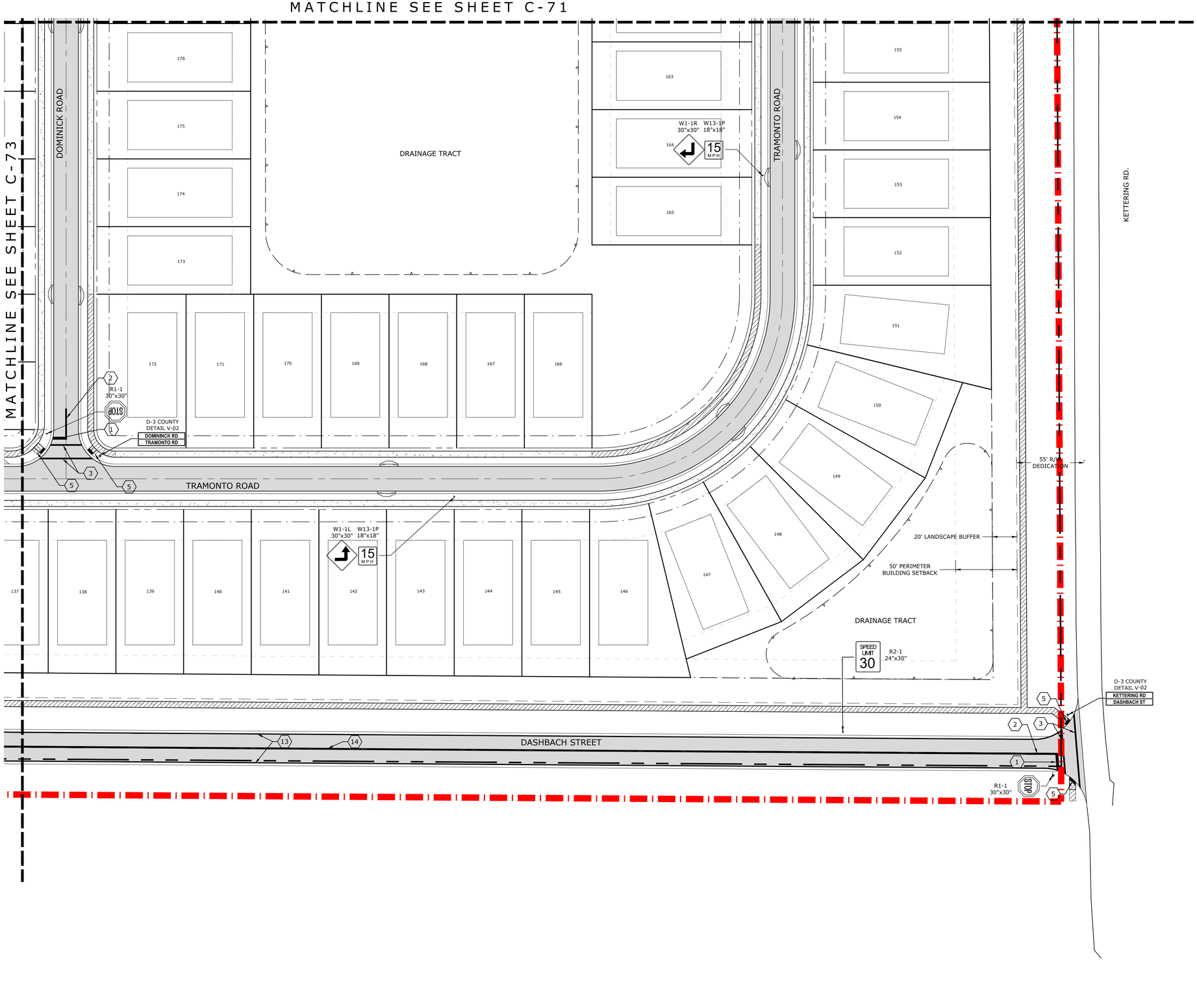
DATE	REV. BY	REV. NO.	REVISION
02/02/26	DG	1	REVISED PER COUNTY COMMENTS

WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
C-73

JOB No.: 24062

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LEGEND

PHASE LINE

SIDEWALK LEGEND

= SIDEWALK TO BE DEVELOPER INSTALLED

= SIDEWALK TO BE HOME BUILDER INSTALLED

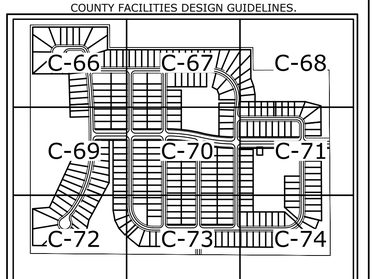
NOTE: ALL STRIPING TO BE THERMOPLASTIC

KEY NOTES:

1. 24" WHITE STOP BAR
2. 25 LF 6" SOLID DOUBLE YELLOW
3. 12" WHITE STANDARD CROSSWALK MARKINGS PER COUNTY DETAILS V-11 & V-17
4. 12" SPECIAL EMPHASIS CROSSWALK MARKINGS PER COUNTY DETAILS V-11 & V-17
5. ADA RAMP 12:1 MAX. SLOPE, 6" RISE MAX. 8' LONG UNLESS NOTED OTHERWISE WITH DETECTABLE WARNING STRIP INSTALLED BY DEVELOPER
6. " PEDESTRIAN CROSSING SIGNS" W11-2 30"x30" W16-7P 21"x15"
7. STANDARD CROSSWALK PER FDOT INDEX 711-001 (THERMO)
8. HANDICAP PARKING AND SIGNAGE PER HCFDG DETAIL V-09 (THERMO)
9. TYPE "D" CONCRETE CURB PER FDOT INDEX NO: 520-001
10. TYPE "F" CONCRETE CURB PER FDOT INDEX NO: 520-001 .
11. CONCRETE WHEEL STOPS
12. 4" SOLID WHITE STRIPE (PAINT)
13. 6" SOLID WHITE STRIPE (THERMO)
14. 6" SOLID DOUBLE YELLOW STRIPE (THERMO)
15. 6" SOLID YELLOW STRIPE (THERMO)
16. 18" SOLID YELLOW STRIPE (THERMO)

SIGNAGE AND STRIPING NOTES:

1. ALL STRIPING WITHIN THE COUNTY RIGHT-OF-WAY SHALL BE THERMOPLASTIC.
2. STOP BARS TO BE LOCATED 4' BEHIND CROSSWALKS WHERE APPLICABLE. REFER TO HC DETAIL V-01 AND V-07 OF HERNANDO COUNTY FACILITIES DESIGN GUIDELINES.



KEY MAP

SIDEWALK SIGNAGE AND STRIPING PLAN (9)

VERONA HILLS

PRELIMINARY NOT FOR CONSTRUCTION
M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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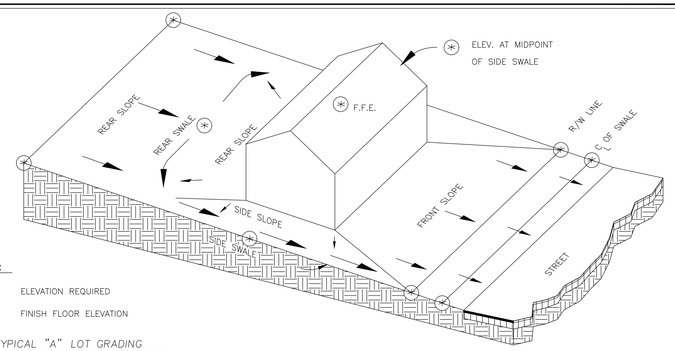
DATE	REV. BY	REV. NO.	REVISION
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SHEET
C-74

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LEGEND:

⊛ ELEVATION REQUIRED

F.F.E. FINISH FLOOR ELEVATION

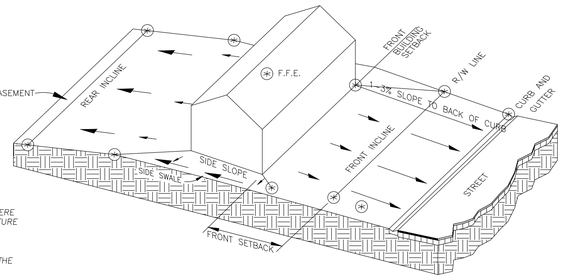
TYPICAL "A" LOT GRADING

NOTES:

1. *USE WITH SHEET III–15, LOT GRADING RULES.*
2. *TYPICAL " A " REPRESENTS REAR SLOPING SITES. WHERE THE SITE IS SLOPED, THE STRUCTURE WILL BE ELEVATED AT LEAST 12" ABOVE THE HIGHEST ELEVATION THE HOUSE SITS ON. DRAINAGE WILL BE AWAY FROM AND AROUND THE STRUCTURE.*
3. *REAR SWALE MINIMUM DEPTH 12" BELOW FINISH FLOOR ELEVATION REAR SWALE SHALL DIRECT RUNOFF TO SIDE SWALE FLOWING INTO COUNTY RIGHT–OF–WAY.*

TITLE: DRAINAGE / EROSION STANDARD
LOT AND BLOCK GRADING " A "
APPROVED BY: C. G. WIXSON, P.E.
DATE: 10-01-08
NO.: III-12

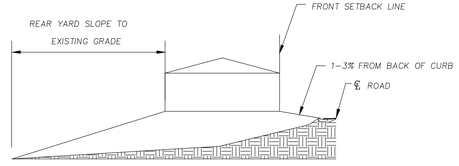
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DEPARTMENT OF PUBLIC WORKS
ENGINEERING DIVISION
1525 E. JEFFERSON ST.
BROOKSVILLE, FLORIDA 34601
PH. (352)754-4062 FAX. (352)754-4423



NOTES:

1. *USE WITH SHEET III–16, LOT GRADING RULES.*
2. *TYPICAL "D" REPRESENTS SLOPING SITES WHERE THE SITE IS SLOPED TO THE REAR, THE STRUCTURE WILL BE ELEVATED FROM ONE (1) TO THREE (3) PERCENT ABOVE THE ADJACENT STREET @ THE UPGRADIENT LOT LINE AND STREET PROTECTED INTERSECTION. DRAINAGE WILL BE AWAY FROM THE STRUCTURE.*
   FRONT: 1–3% TO BACK OF CURB
   SIDE: MAXIMUM 5:1 AWAY FROM STRUCTURE TO SIDE CENTERLINE.
   REAR: SLOPE TO EXISTING GRADE @ REAR LOT LINE.

TYPICAL "D" LOT GRADING



DRIVEWAY CROSS SECTION

TITLE: DRAINAGE / EROSION STANDARD
LOT AND BLOCK GRADING " D "
APPROVED BY: C. G. WIXSON, P.E.
DATE: 10-01-08
NO.: III-15

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LEGEND:

⊛ ELEVATION REQUIRED

F.F.E. FINISH FLOOR ELEVATION

TYPICAL "B" LOT GRADING

NOTES:

1. *USE WITH SHEET III–15, LOT GRADING RULES.*
2. *TYPICAL " B " REPRESENTS FLAT OR DEPRESSED SITES. IF THE SITE IS FLAT OR DEPRESSED, THE FIRST FLOOR OF THE STRUCTURE SHALL BE AT LEAST 12" ABOVE THE CROWN OF THE ROAD, MEASURED AT THE MID–POINT OF THE FRONT OF THE HOUSE PAD.*
3. *FINISH FLOOR ELEVATION TO BE A MIN. 12" ABOVE ℄ OF ROAD GRADE AND BE AT OR ABOVE THE 100 YEAR FLOOD PLAIN.*

TITLE: DRAINAGE / EROSION STANDARD
LOT AND BLOCK GRADING " B "
APPROVED BY: C. G. WIXSON, P.E.
DATE: 10-01-08
NO.: III-13

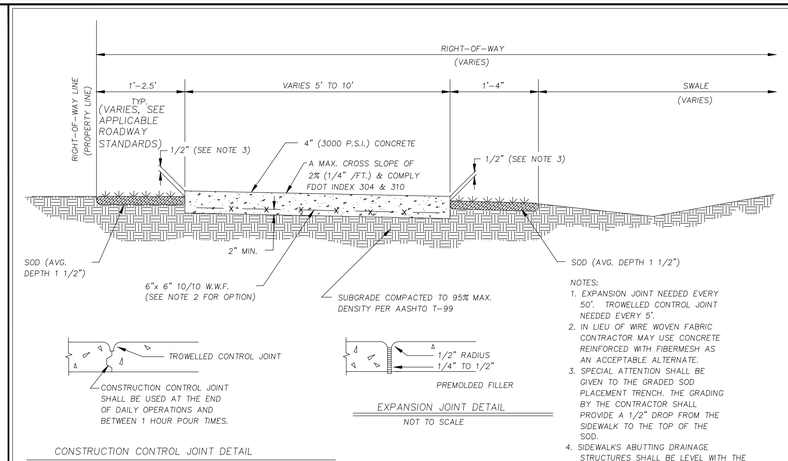
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LOT GRADING RULES FOR ALL LOTS

1. *THIS STANDARD IS INTENDED TO MEET THE PROVISIONS OF THE FLORIDA BUILDING CODE REQUIRING DRAINAGE BE DESIGNED TO CARRY WATER AWAY FROM STRUCTURE. IT IS NOT INTENDED TO AND DOES NOT NECESSARILY PREVENT FLOODING CAUSED BY THE STRUCTURE BEING LOCATED IN A FLOOD PRONE AREA.*
2. *THE FINISHED FLOOR ELEVATION SHOULD BE SHOWN ON SUBDIVISION FINAL CONSTRUCTION PLANS TO THE NEAREST 1/TENTH (0.1) FOOT.*
3. *PROVISIONS SHOULD BE MADE TO RECEIVE RUNOFF FROM HIGHER ADJACENT LOTS, AND TO DISCHARGE TO LOWER LOTS AT AN APPROPRIATE LOCATION*
4. *FINISHED FLOOR ELEVATIONS OF ADJACENT STRUCTURES, IF EXISTING, SHALL BE PROVIDED.*
5. *ELEVATION OF SWALE ℄ AT EACH PROPERTY LINE PROJECTION AND BOTH CULVERT INVERTS, IF EXISTING, SHALL BE PROVIDED.*
6. *FILL OR CUTS 30" OR GREATER SHALL REQUIRE AN ENGINEERED SITE PLAN TO ADDRESS DRAINAGE AND SLOPE STABILITY.*
7. *FRONT, SIDE, AND REAR SLOPES SHALL NOT BE STEEPER THAN 3:1.*
8. *NO STRUCTURE, BUILDING, OR IMPROVEMENT CAN ENCROACH, OR BE CONSTRUCTED WITHIN EASEMENTS.*
9. *IF SIDE AND/OR REAR EASEMENTS EXIST, AND IF RETAINING WALL CONSTRUCTION IS REQUIRED ALONG SIDE AND/OR REAR OF LOT, THE SIDE AND/OR REAR LOT EASEMENTS MUST FIRST BE VACATED AND THE RETAINING WALL(s) MUST THEN BE CONSTRUCTED ADJACENT TO THE PROPERTY LINE.*
10. *LOTS WITH 5' SIDE SETBACKS/EASEMENTS REQUIRE AN ENGINEERED SITE PLAN FOR ANY CONSTRUCTION.*
11. *LOTS WITH A 5' SETBACK THAT EXCEED 8" DIFFERENCE IN F.F.E. BETWEEN THEM REQUIRE A STEM WALL OR RETAINING WALL BETWEEN THEM, (LOCATIONS TO BE SHOWN ON PLANS). LOTS WITH 7.5' SETBACK THAT EXCEED 18" DIFFERENCE IN F.F.E. BETWEEN THEM REQUIRE A STEM WALL OR RETAINING WALL BETWEEN THEM, (LOCATIONS TO BE SHOWN ON PLANS). LOTS WITH A 10' SETBACK THAT EXCEED 28" DIFFERENCE IN F.F.E. BETWEEN THEM REQUIRE A STEM WALL OR RETAINING WALL BETWEEN THEM, (LOCATIONS TO BE SHOWN ON PLANS).*
12. *ALL SINGLE FAMILY RESIDENTIAL AND ACCESSORY STRUCTURES SHALL RECEIVE A FINAL GRADE AND DRAINAGE INSPECTION PRIOR TO ISSUANCE OF THE CERTIFICATE OF OCCUPANCY.*
13. *ALL FINISHED FLOOR ELEVATIONS SHALL BE AT OR ABOVE THE 100 YEAR FLOOD PLAIN ELEVATION.*
14. *THE HOUSE SHALL BE 12" HIGHER THAN THE FLOW LINE OF THE SWALE ALL AROUND THE HOUSE.*
15. *LOTS WITHIN THE VELOCITY ZONE, THE 100–YEAR FLOOD ZONE, AND INFILL LOTS SHALL REQUIRE KNOCKOUT WALLS, STEM WALLS, AND/OR RETAINING WALLS AS NECESSARY TO PROVIDE ADEQUATE DRAINAGE AND ACCEPTABLE GRADE TRANSITIONS TO ADJACENT LOT ELEVATIONS.*
16. *LOT GRADING SHALL MAINTAIN HISTORICAL FLOW PATHS AND PREVENT ACCUMULATION OF WATER OR EXCESSIVE RUNOFF ONTO ADJACENT PROPERTIES.*
17. *SIDE SWALES SHALL DRAIN TO THE FRONT OR REAR ON EACH LOT AND SHALL FUNCTION INDEPENDENTLY FROM ALL ADJOINING LOTS.*
18. *WHERE A SEPTIC SYSTEM MOUND IS REQUIRED, ADEQUATE DISTANCE MUST BE PROVIDED BETWEEN THE TOE OF SLOPE OF THE MOUND AND THE PROPERTY LINE TO ADDRESS DRAINAGE ISSUES (SEE LOT GRADING RULE 16 ABOVE).*
19. *IN SUBDIVISIONS ADJACENT LOTS GENERALLY SHARE A COMMON SWALE. THE CENTER OF THE SWALE IS THE PROPERTY LINE. THE FIRST HOUSE BUILT MUST ESTABLISH THEIR HALF OF THE COMMON SWALE.*

TITLE: DRAINAGE / EROSION STANDARD
LOT GRADING RULES
APPROVED BY: C. G. WIXSON, P.E.
DATE: 10-01-08
NO.: III-16

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NOTES:

1. *EXPANSION JOINT NEEDED EVERY 50'. TROWELLED CONTROL JOINT NEEDED EVERY 5'.*
2. *IN LIEU OF WIRE WOVEN FABRIC CONTRACTOR MAY USE CONCRETE REINFORCED WITH FIBERMESH AS AN ACCEPTABLE ALTERNATE.*
3. *SPECIAL ATTENTION SHALL BE GIVEN TO THE GRADED SOD PLACEMENT TRENCH. THE GRADING BY THE CONTRACTOR SHALL PROVIDE A 1/2" DROP FROM THE SIDEWALK TO THE TOP OF THE SOD.*
4. *SIDEWALKS ABUTTING DRAINAGE STRUCTURES SHALL BE LEVEL WITH THE TOP OF THE STRUCTURE.*

CONSTRUCTION CONTROL JOINT DETAIL

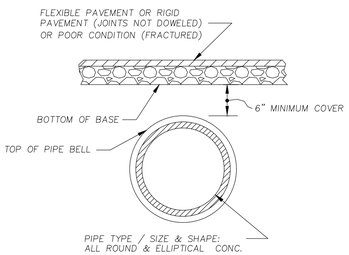
NOT TO SCALE

EXPANSION JOINT DETAIL

NOT TO SCALE

TITLE: DRAINAGE / EROSION STANDARD
SIDEWALK
APPROVED BY: C. G. WIXSON, P.E.
DATE: 10-01-08
NO.: IV-30

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MINIMUM COVER FOR CONCRETE PIPE

GENERAL NOTES:

1. *THE RECOMMENDED 6" MINIMUM DIMENSION IS TO WITHSTAND ANTICIPATED HIGHWAY TRAFFIC LOADS. ADDITIONAL COVER MAY BE REQUIRED TO SUPPORT CONSTRUCTION EQUIPMENT LOADS OR HIGHWAY TRAFFIC LOADS BEFORE PAVEMENT IS COMPLETED. SOME SIZE THICKNESS COMBINATIONS MAY REQUIRE MINIMUM COVER GREATER THAN THE ONE LISTED ABOVE.*
2. *6" MIN. COVER SHOWN IS STANDARD INSTALLATION. THE COUNTY ENGINEER MAY REQUIRE MORE COVER AND/OR BASE DEPENDING ON SITE CONDITIONS. (THESE FEATURES MAY INCLUDE BUT ARE NOT LIMITED TO EXTRA STRENGTH PIPE, SELECT BEDDING, SELECT BACKFILL AND ENCASEMENT). REFERENCE F.D.O.T. INDEX 205.*

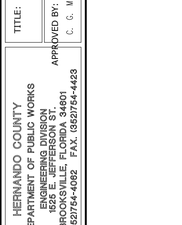
TITLE: DRAINAGE / EROSION STANDARD
COVER HEIGHTS
APPROVED BY: C. G. WIXSON, P.E.
DATE: 10-01-08
NO.: III-01

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GRADING AND DRAINAGE DETAILS (1)

VERONA HILLS

DRAWING INVALID UNLESS SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL ENGINEER



BRIAN C. MALMBERG, P.E.
FLORIDA REG. NO. 59405

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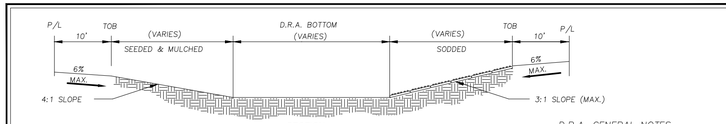
DATE	REV. BY	REV. NO.	REVISION
02/02/26	DG	1	REVISED PER COUNTY COMMENTS

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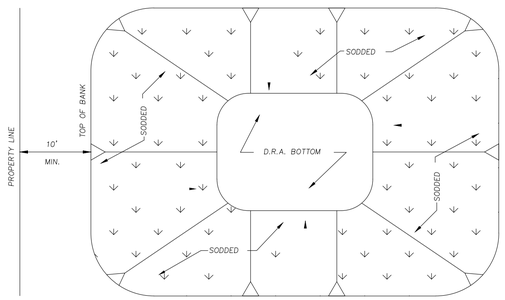
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SECTION



PLAN

D.R.A. GENERAL NOTES

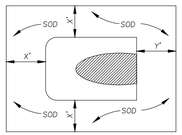
1. REFER TO F.D.O.T. STANDARD SPECIFICATION SECT. 575 FOR SODDING SPECIFICATIONS.
2. REFER TO F.D.O.T. STANDARD SPECIFICATION SECT. 570 FOR SEEDING AND MULCHING OF THE D.R.A. BOTTOM.
3. ALL 3:1 SLOPES SHALL BE SODDED.
4. THE MAXIMUM SIDE SLOPE SHALL BE 3:1.
5. ALL 4:1 SLOPES MAY BE SEEDED & MULCHED, UNLESS OTHERWISE REQUESTED BY HERNANDO COUNTY.
6. SEE SECTION I, SHEET I-08 FOR PIPES, DRAINAGE AND EASEMENTS.

LEGEND

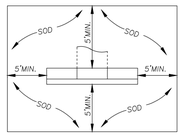
INDICATES SLOPING AREA

TITLE: DRAINAGE / EROSION STANDARD
D.R.A. DETAIL (DRY POND)
APPROVED BY: C. G. WILSON, P.E.
DATE: 10-01-08
NO.: I11-06

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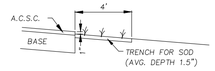
MITERED ENDS



ENDWALLS

TYPE	"X"	"Y"
SIDE DRAIN	2'MIN.	4'MIN.
CROSS DRAIN	5'MIN.	5'MIN.

SOD DETAIL AT STRUCTURES



NOTE:
SPECIAL ATTENTION IS TO BE GIVEN TO THE PLACEMENT OF SOD NEXT TO THE ROADWAY. TOP OF SOD SHALL BE 1" BELOW PAVEMENT GRADE.

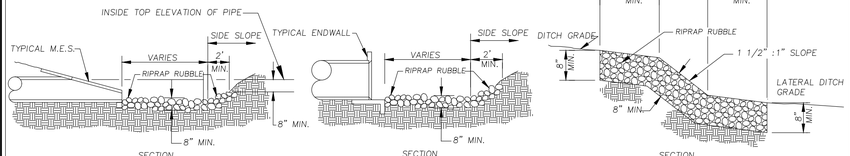
SOD DETAIL AT PAV'T EDGE

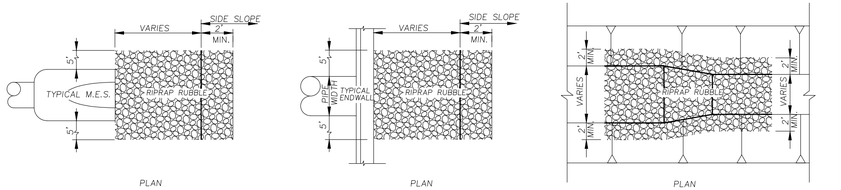
GENERAL SODDING NOTES

- SEE F.D.O.T. Index No's. 100, 105, 272, 273, 281, and Hernando County Guidelines on D.R.A.'s for additional details.
- All disturbed areas of an existing public right of way shall receive sodding.
- All new roadways shall receive sodding, four(4) feet wide along the pavement edges as a minimum, for open drainage.
- All new roadways shall receive sodding, one strip wide along the pavement edges as a minimum, for closed drainage.
- All drainage structures shall receive sodding per the above as a minimum.
- All slopes 3:1 OR steeper shall receive sodding.
- All sod on slopes equal to or steeper than 2 to 1 shall be pegged or mat secured.
- All other disturbed areas NOT receiving sod shall be properly seeded and mulched.
- Sodding shall include all work, fertilizers, and watering necessary to produce a dense, live stand of grass.
- Sodding will be considered acceptable if 80% of the installation is healthy at the beginning and end of the 18 month maintenance period.

TITLE: DRAINAGE / EROSION STANDARD
SODDING
APPROVED BY: C. G. WILSON, P.E.
DATE: 10-01-08
NO.: I11-11

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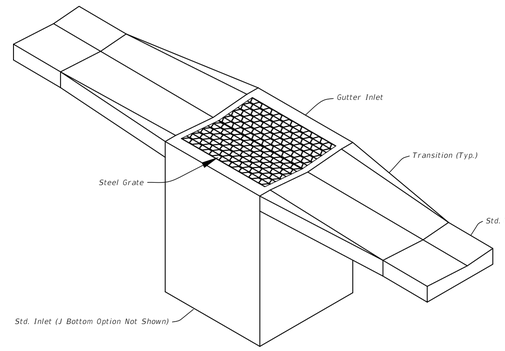


GENERAL NOTES

1. REFER TO F.D.O.T. STANDARD SPECIFICATIONS SECTION 530 FOR ADDITIONAL RIPRAP RUBBLE SPECIFICATIONS.
2. GEOTEXTILE SHALL BE INSTALLED BEFORE ANY RIP RAP IS PLACED. GEOTEXTILE SHALL CONFORM TO F.D.O.T. SPEC 530 AND 514.

TITLE: DRAINAGE / EROSION STANDARD
RIPRAP
APPROVED BY: C. G. WILSON, P.E.
DATE: 10-01-08
NO.: I11-04

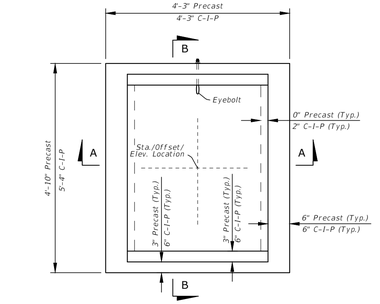
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BROOKSVILLE, FLORIDA 34601
PH. (352)754-4062 FAX. (352)754-4423



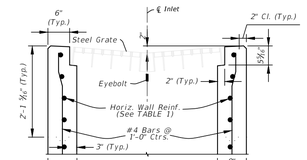
GUTTER INLET TYPE V
(Pipe Opening Not Shown)

GENERAL NOTES:

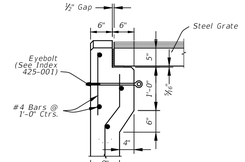
1. Work this Index with Index 425-001 and Index 425-010.
2. All reinforcing is Grade 60 bars with 2" min. cover unless otherwise noted. See Index 425-001 for equivalent area of welded wire fabric. Cut or bend bars out of way of pipe to clear pipe 1½".
3. Chamfer all exposed edges and corners ½" or tool to ½" radius.
4. Dimensions are for both precast and cast-in-place inlets unless otherwise noted.



PLAN

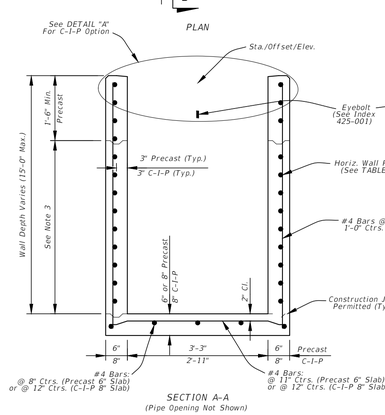


DETAIL "A"

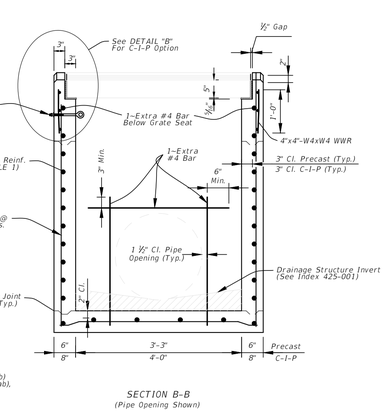


DETAIL "B"

CAST-IN-PLACE OPTION



SECTION A-A
(Pipe Opening Not Shown)



SECTION B-B
(Pipe Opening Shown)

TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE

WALL DEPTH	SCHEDULE	AREA (in.²/ft.)	MAX. SPACING	
			BARS	WWR
0' - 5'	A12	0.20	12"	8"
5' - 9'	A6	0.20	6"	5"
9' - 12'	A4	0.20	4"	3"
9' - 15'	B5.5	0.24	5½"	5"

NOTES:

1. Plan View: Grate, Concrete Ditch Pavement, and Sod not shown on structure detail.
2. Precast Shown, Cast-In-Place (C-I-P) similar.
3. Construction joints permitted between these limits. See Index 425-001 for minimum dimensions.

DIMENSIONAL AND REINFORCING DETAILS

FDOT INDEX 425-041 GUTTER INLET TYPE V

GRADING AND DRAINAGE DETAILS (2)

VERONA HILLS

DRAWING INVALID UNLESS SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL

BRIAN T. HOLLIMAN, P.E.
FLORIDA REG. NO. 59405

STATE OF FLORIDA
No. 59405
PROFESSIONAL ENGINEER
BRIAN T. HOLLIMAN
LICENSE

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Planning
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Construction Management
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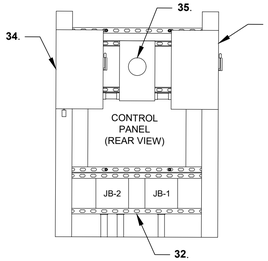
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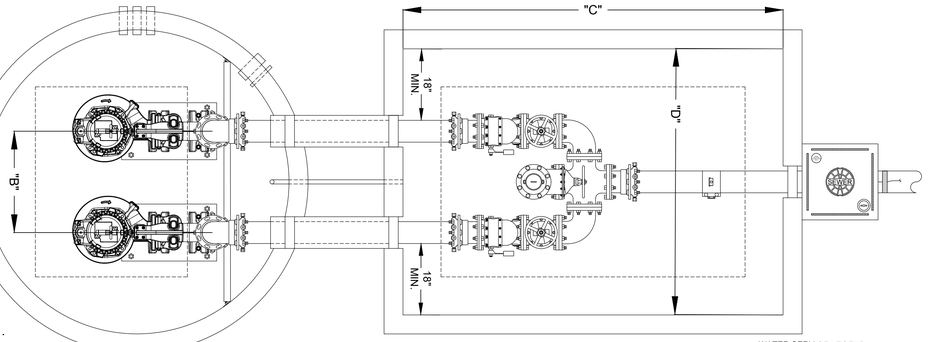
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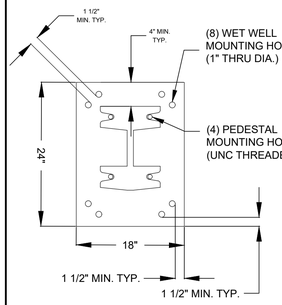
SHEET
C-76

JOB No.: 24062

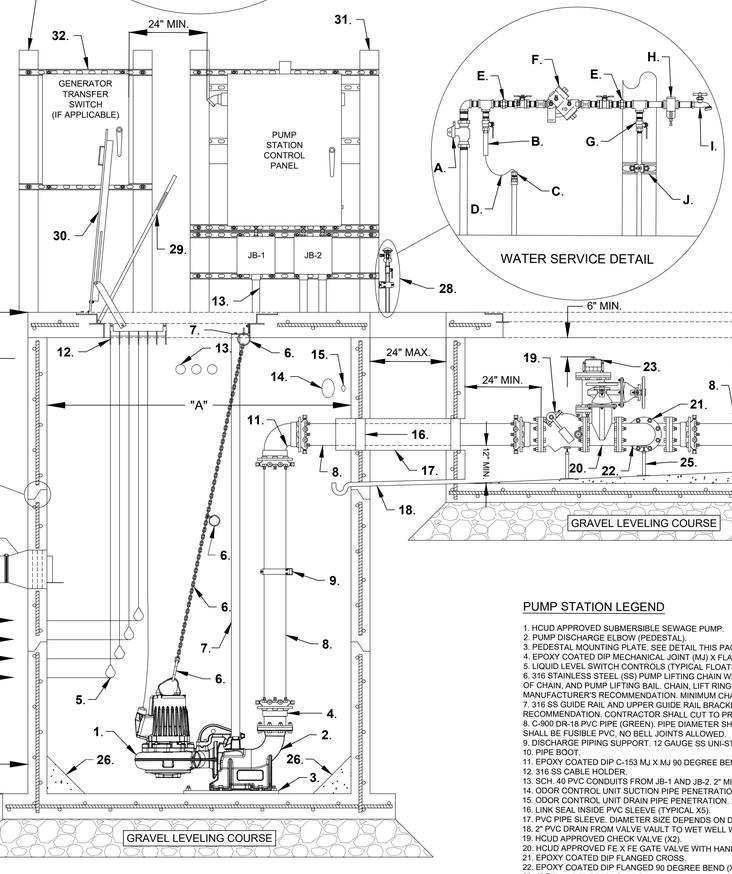
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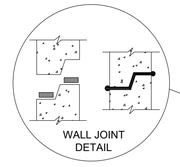




PEDESTAL MOUNTING PLATE



WATER SERVICE DETAIL



DUPLEX PUMP STATION - CONCRETE WET WELL DETAIL S-11

NOT TO SCALE

PUMP STATION WET WELL DIAMETER NOTE:

1. 6' DIAMETER WET WELL SHALL UTILIZE 4" DISCHARGE PIPING ONLY.
2. 8' DIAMETER WET WELL AND LARGER SHALL UTILIZE 6" DISCHARGE PIPING AND LARGER.

PUMP STATION DIMENSIONS			
"A"	WET WELL DIAMETER	=	6'-0"
"B"	DISTANACE BETWEEN CENTERLINE OF PUMPS	=	SEE NOTE BELOW
"C"	VALVE VAULT LENGTH	=	10'-0"
"D"	VALVE VAULT WIDTH	=	6'-0"
"E"	VALVE VAULT DEPTH	=	4'-6"

DIMENSION VARIES WITH PUMP SELECTION & PIPE SIZES. CONTRACTOR TO PROVIDE SHOP DRAWING OF PROPOSED VALVE VAULT WITH PIPE SIZES AND MINIMUM CLEARANCES SHOWN.

PUMP SPECIFICATIONS AND DESIGN CONDITIONS			
MANUFACTURER	= EBARA	IMPELLER DIAMETER	= 244/172 MM
MODEL #	= 80DLCMKFU67.5	DISCHARGE SIZE	= 4 IN
HORSEPOWER	= 10 HP	GPM	= 130 GPM
3-PHASE VOLTAGE	= 208/230V	TDH	= 69.67 FT

WATER SERVICE LEGEND

A. LOCKABLE CURB STOP, FIP X FIP.

B. DFS PRESSURE TRANSDUCER WITH STAINLESS STEEL FULL PORT BALL VALVE.

C. PVC CONDUIT WITH CORD GRIP FOR PRESSURE TRANSDUCER CABLE.

D. DRIP LOOP IN CABLE.

E. UNIONS.

F. RPZ-BPA.

G. WATER SERVICE TO ODOR CONTROL WITH STAINLESS STEEL FULL PORT BALL VALVE AND GALVANIZED PIPING INSTALLED ACROSS THE TOP OF THE CONCRETE SLAB.

H. BPA FREEZE PROTECTION AND TEE.

I. HOSE BIB.

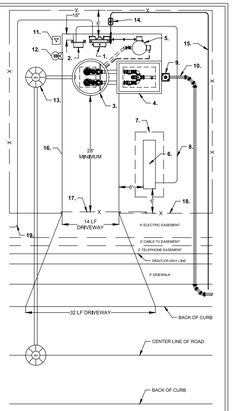
J. 12 GAUGE STAINLESS STEEL UNI-STRUT AND CLAMPS ANCHORED TO CONCRETE POLE.

NOTE: WATER SERVICE SHALL BE SIZED PER THE ODOR CONTROL WATER REQUIREMENTS. MINIMUM SIZE SHALL BE 3/4-INCH.

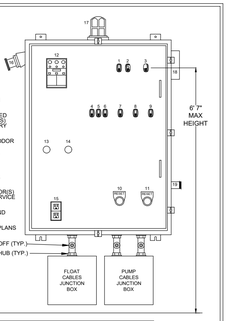
PUMP STATION LEGEND

1. HCUD APPROVED SUBMERSIBLE SEWAGE PUMP.
2. PUMP DISCHARGE ELBOW (PEDESTAL).
3. PEDESTAL MOUNTING PLATE. SEE DETAIL THIS PAGE AND NOTE #IV.
4. EPOXY COATED DIP MECHANICAL JOINT (MJ) X FLANGED END (FE) ADAPTOR WITH MJ RESTRAINT (TYPICAL X5).
5. LIQUID LEVEL SWITCH CONTROLS (TYPICAL FLOATS X4)
6. 316 STAINLESS STEEL (SS) PUMP LIFTING CHAIN WITH SS LIFT RING EYES AND CLEVISES AT THE TOP, MID POINT OF CHAIN, AND PUMP LIFTING BAIL. CHAIN, LIFT RING EYES, AND CLEVIS SHALL BE SIZED PER PUMP MANUFACTURER'S RECOMMENDATION. MINIMUM CHAIN SIZE SHALL BE 5/16".
7. 316 SS GUIDE RAIL AND UPPER GUIDE RAIL BRACKET. RAIL DIAMETER SIZE PER PUMP MANUFACTURER'S RECOMMENDATION. CONTRACTOR SHALL CUT TO PROPER LENGTH.
8. C-900 DR-18 PVC PIPE (GREEN). PIPE DIAMETER SHALL BE PER CONSTRUCTION DRAWINGS. LENGTHS OVER 20 LF SHALL BE FUSIBLE PVC, NO BELL JOINTS ALLOWED.
9. DISCHARGE PIPING SUPPORT. 12 GAUGE SS UNI-STRUT (B-LINE) AND PIPE CLAMPS. (IF APPLICABLE)
10. PIPE BOOT.
11. EPOXY COATED DIP C-153 MJ X MJ 90 DEGREE BEND WITH MJ RESTRAINTS.
12. 316 SS CABLE HOLDER.
13. SCH. 40 PVC CONDUITS FROM JB-1 AND JB-2. 2" MINIMUM SIZE (TYPICAL X3).
14. ODOR CONTROL UNIT SUCTION PIPE PENETRATION. 6" MINIMUM PIPE SIZE WITH PIPE BOOT.
15. ODOR CONTROL UNIT DRAIN PIPE PENETRATION. 2" MINIMUM PIPE SIZE WITH PIPE BOOT.
16. LINK SEAL INSIDE PVC SLEEVE (TYPICAL X5).
17. PVC PIPE SLEEVE. DIAMETER SIZE DEPENDS ON DISCHARGE PIPING SIZE.
18. 2" PVC DRAIN FROM VALVE VAULT TO WET WELL WITH P-TRAP.
19. HCUD APPROVED CHECK VALVE (X2).
20. HCUD APPROVED FE X FE GATE VALVE WITH HAND WHEEL (X3).
21. EPOXY COATED DIP FLANGED CROSS.
22. EPOXY COATED DIP FLANGED 90 DEGREE BEND (X3).
23. 4" FEMALE TYPE "D" CAMLOCK WITH DUST PLUG.
24. TPS "T3" SADDLE, 1/2" SS NIPPLE, 1/2" SS FULL PORT BALL VALVE AND 2 1/2" DIAMETER SS LIQUID FILLED BOTTOM MOUNT PRESSURE GAUGE - 60 PSI MAX WITH 1 PSI INCREMENTS.
25. SS ADJUSTABLE PIPE AND VALVE SUPPORTS (TYPICAL X3).
26. CONCRETE FILLET.
27. MJ GATE VALVE WITH 2" OPERATING NUT, MJ RESTRAINTS, CONCRETE SUPPORT BLOCK, DUCTILE IRON ADJUSTABLE 5 1/4" VALVE CAN WITH SEWER LID, AND CONCRETE VALVE PAD PER HCUD SPECIFICATIONS.
28. WATER SERVICE - SEE WATER SERVICE DETAIL THIS SHEET.
29. HCUD APPROVED SAFETY GRATE (NO NETS).
30. HCUD APPROVED WET WELL LID.
31. CONCRETE SUPPORT POLES - 6" X 6" X 10' MINIMUM SIZE (TYPICAL X4).
32. ALL UNISTRUT SHALL BE 12 GAUGE SS UNISTRUT (B-LINE) WITH SS SPRING NUTS AND SS MOUNTING HARDWARE.
33. SS SAFETY DISCONNECT BEFORE ELECTRIC METER SHALL BE NON-FUSED ON ALL 3-PHASE 277/480 VAC ELECTRIC SERVICES. PROVIDE PLASTIC PLACARD THAT READS "METER DISCONNECT NOT SERVICE EQUIPMENT". 3-PHASE 120/208 VAC OR 120/230 VAC ELECTRIC SERVICES NOT REQUIRED. (POWER COMPANY REQUIREMENT).
34. SS SAFETY DISCONNECT AFTER ELECTRIC METER SHALL BE FUSED TYPE, SHALL BE SERVICE ENTRANCE RATED, AND SHALL HAVE LIGHTNING ARRESTOR EXTERNALLY MOUNTED UNDER DISCONNECT AND WIRED TO THE LOAD SIDE OF DISCONNECT.
35. ELECTRIC METER SOCKET ENCLOSURE - "METER CAN". ELECTRIC SERVICE SHALL BE SIZED PER CONSTRUCTION DRAWINGS, HOWEVER 100 AMPS IS THE MINIMUM.

NOTES:
I. ALL MOUNTING HARDWARE AND FASTENERS, INCLUDING TEE BOLTS AND NUTS FOR MJ FITTINGS SHALL BE 316 STAINLESS STEEL.
II. ENGINEER SHALL FILL IN ALL INFORMATION ON THE LINE OR SPACE PROVIDED AFTER THE EQUAL (=) SIGN ON THIS DETAIL AND SHOW ON CONSTRUCTION DRAWINGS.
III. ALL PENETRATIONS INTO THE CONTROL PANEL, TRANSFER SWITCH AND OTHER ELECTRICAL EQUIPMENT SHALL BE FROM THE BOTTOM UNLESS SHOWN DIFFERENTLY IN THE DETAIL.
IV. TYPICAL MOUNTING PLATE DETAIL - 18" X 24" CARBON STEEL PLATE, 1" THICK (X3). AFFIX PLATE TO WET WELL VIA 316 SS , 3/4" X 7" EXPANSION (WEDGE) ANCHORS (X4). AFFIX PUMP PEDESTAL TO PLATE VIA THREADED HOLES. HOLE DEPTH TO TRAVEL ENTIRE PLATE THICKNESS. ACTUAL HOLE DIAMETER AND PLACEMENT SHALL BE DICTATED BY THE PEDESTAL BOLT HOLE PATTERN. PEDESTAL MOUNTING BOLTS SHALL BE GRADE 8 AND HAVE UNC THREADS (X4). MOUNTING BOLTS SHALL BE WELDED FLUSH TO THE PLATE ON THE BOTTOM SIDE. PLEASE NOTE THAT LARGER PUMPS WITH LARGER PEDESTALS MAY REQUIRE A LARGER PEDESTAL PLATE, I.E. 18" X 30" OR 24" X 36". PEDESTAL PLATE SHALL BE SUBMITTED TO HCUD FOR APPROVAL.



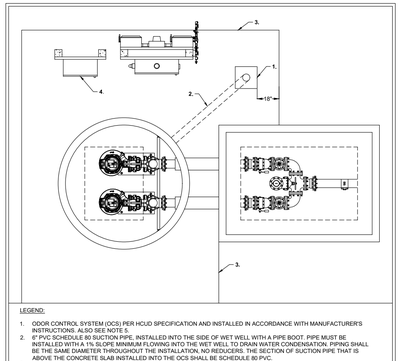
HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	DUPLEX PUMP STATION LAYOUT	
	DATE: JUNE 2023	DETAIL: S-10



PUMP CONTROL PANEL COMPONENTS (TELEMETRY MODEL)	
1. RTU BREAKER	12. DATA FLOW SYSTEMS CONTROLLER W/REAR MOUNTED TCU
2. MCB (MAIN CIRCUIT BREAKER)	13. PL1 MOISTURE 1
3. ECB (EMERGENCY CIRCUIT BREAKER)	14. PL2 MOISTURE 2
4. DRB (DUPLEX RECEPTACLE BREAKER)	15. DR (DUPLEX RECEPTACLE, GFI)
5. CCB (CONTROL CIRCUIT BREAKER)	16. GR (GENERATOR RECEPTACLE)
6. SLB - SITE LIGHT BREAKER 2)	17. AL (ALARM LIGHT, LED)
7. OCB (ODOR CONTROL BREAKER)	18. AH (ALARM HORN)
8. MB1 (MOTOR BREAKER 1)	19. ASB (ALARM SILENCE BUTTON)
9. MB2 (MOTOR BREAKER 2)	
10. OVERLOAD 1 RESET BUTTON	
11. OVERLOAD 2 RESET BUTTON	

NOT TO SCALE

HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	DUPLEX PUMP STATION CONTROL PANEL 39 HP OR LESS	
	DATE: JUNE 2023	DETAIL: S-13



LEGEND:

1. ODOR CONTROL SYSTEM (OCS) PER HCUD SPECIFICATION AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ALSO SEE NOTE 5.
2. 6" PVC SCHEDULE 80 SUCTION PIPE, INSTALLED INTO THE SIDE OF WET WELL WITH A PIPE BOOT. PIPE MUST BE INSTALLED WITH A 1% SLOPE MINIMUM FLOWING INTO THE WET WELL TO DRAIN WATER CONDENSATION. PIPING SHALL BE THE SAME DIAMETER THROUGHOUT THE INSTALLATION, NO REDUCERS. THE SECTION OF SUCTION PIPE THAT IS ABOVE THE CONCRETE SLAB INSTALLED INTO THE OCS SHALL BE SCHEDULE 80 PVC.
3. 4,000 PSI 6" THICK CONCRETE SLAB AND SHALL BE REINFORCED WITH 6 X 6 WIRE.
4. GENERATOR TRANSFER SWITCH, IF APPLICABLE.

NOTES:

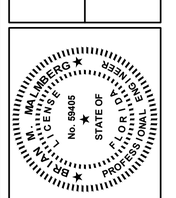
5. INSTALL THE MOUNTING FLANGE FOR THE PASSIVE VAPOR OCS A MINIMUM OF 18" ABOVE CONCRETE SLAB.

NOT TO SCALE

HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	PASSIVE VAPOR ODOR CONTROL SYSTEM	
	DATE: JUNE 2023	DETAIL: S-21

PUMP STATION DETAILS (1)

VERONA HILLS



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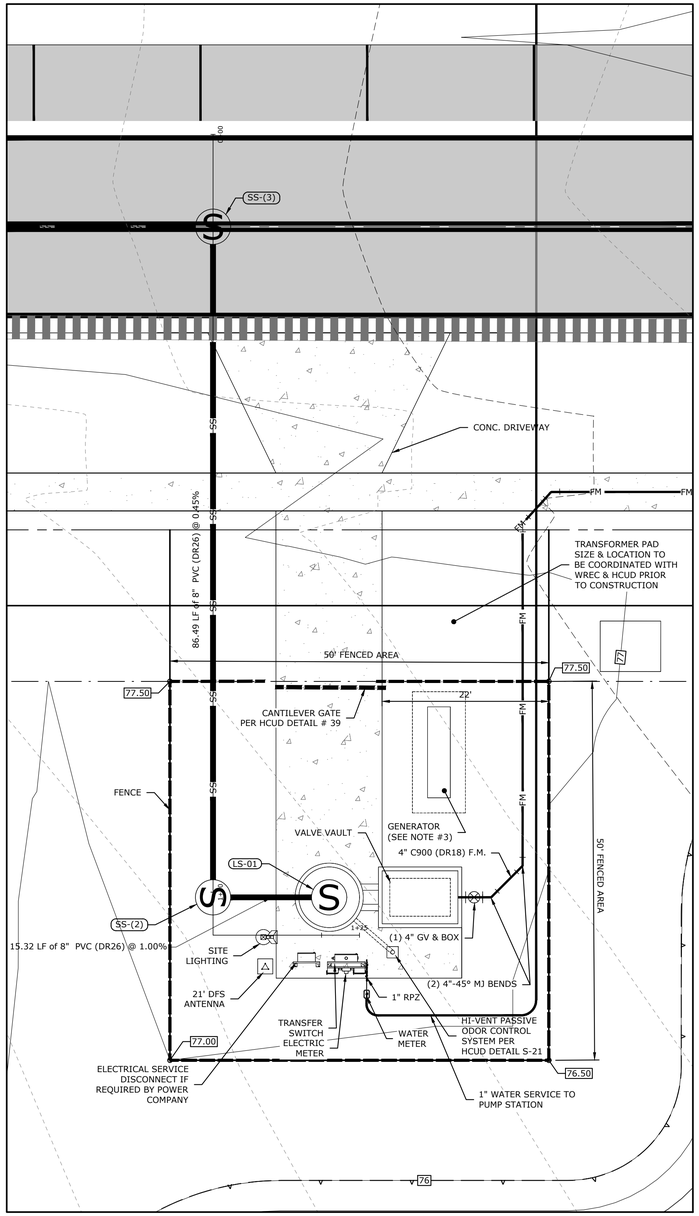
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SHEET

C-77

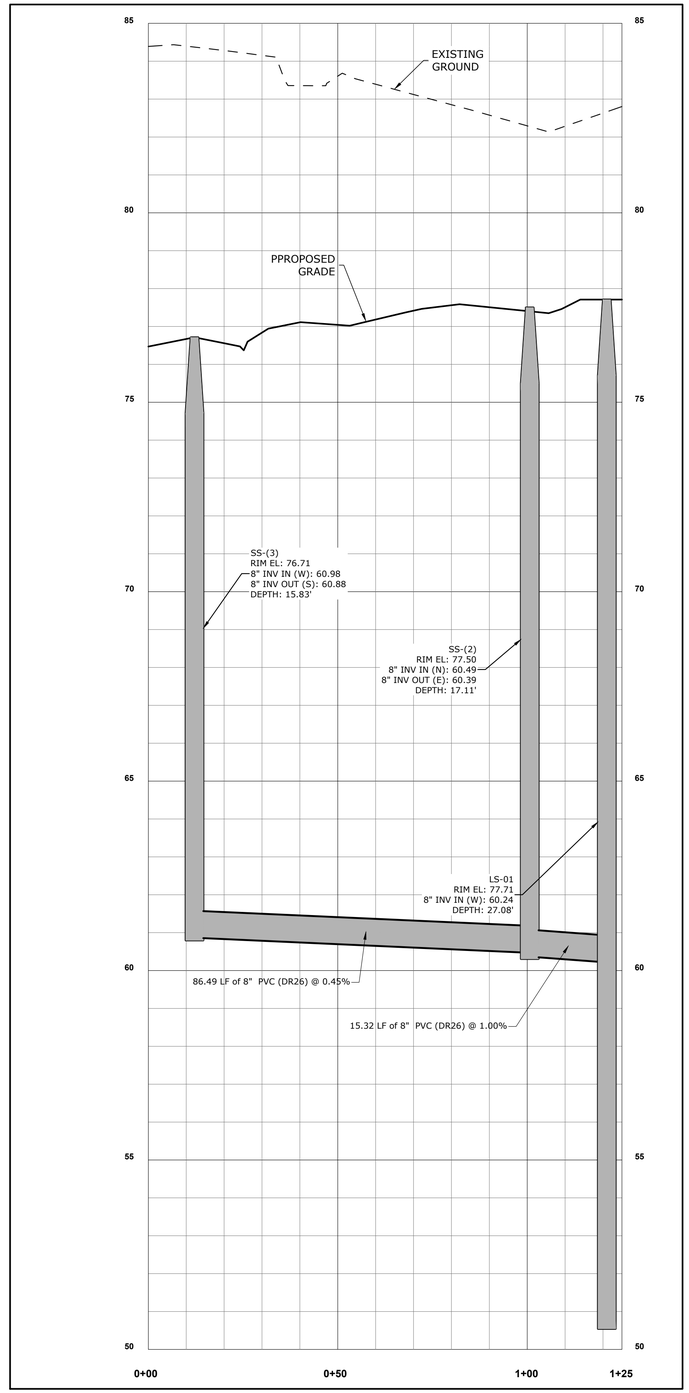
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PUMP STATION SITE

SCALE: 1" = 10'



SS-03 TO LS-01 STA 0+00 - STA 1+25

HOR SCALE: 1"=20'
VER SCALE: 1"=2'

NOTES:

1. PUMP STATION SITE TO BE NO LESS THAN 50'x50' FOR A DUPLEX STATION.
2. DRIVEWAY SHALL BE CENTERED TO WET WELL
3. GENERATOR AS REQUIRED PER SUBSECTION 4D.1.5. GENERATOR WILL BE LOCATED NEAR DRIVEWAY TO ALLOW EASY FUELING.
4. LAYOUT IS DEPENDENT ON FORCE MAIN ROUTE. RECONFIGURATION OF PUMP STATION LAYOUT SHALL BE COORDINATED WITH HCUD.
5. REFER TO SUBSECTIONS 4D.1, 4D.5 AND DETAIL S-10 ON SHEET C-79 FOR ADDITIONAL INFORMATION.
6. CONSTRUCT FENCE AND GATE PER DETAIL G-09 ON SHEET C-80
7. APPROXIMATE LOCATION OF DFS ANTENNA FINAL LOCATION TO BE COORDINATED WITH DFS AND HERNANDO COUNTY UTILITIES.
8. WATER METER AND BACKFLOW PREVENTION DEVICE TO BE FIELD LOCATED. WATER SERVICE TO BE PROVIDED TO CONTROL PANEL PER DETAIL THIS SHEET AND FOR THE ODOR CONTROL SYSTEM PER DETAIL S-21 ON SHEET C-79
9. FM WET TAP SHALL MEET SPECIFICATION 4C.5.3
10. PUMP STATION SHALL INCLUDE TELEMETRY, ODOR CONTROL AND A GENERATOR PER HCUD SPECIFICATIONS.
11. THE HOMEOWNERS ASSOCIATION OR DESIGNEE IS RESPONSIBLE FOR THE MAINTENANCE (TRIMMING, WATERING, REPLACEMENT, ETC.) OF ALL LANDSCAPING LOCATED OUTSIDE OF THE SEWER PUMP STATION FENCE. THE HERNANDO COUNTY UTILITIES DEPARTMENT (HCUD) IS NOT RESPONSIBLE FOR DAMAGE OR REPLACEMENT OF LANDSCAPING OUTSIDE OF THE PUMP STATION FENCE IN THE EVENT MAINTENANCE OR REPAIR TO HCUD'S INFRASTRUCTURE IS REQUIRED.
12. CONTRACTOR SHALL ENSURE THE PLACEMENT OF THE WET WELL AND DRIVEWAY ON THE PUMP STATION TRACT WILL ALLOW FOR THE INSTALLATION OF THE CANTILEVER SLIDE GATE.
13. PASSIVE VAPOR ODOR CONTROL TO BE INSTALLED PER DETAIL S-21 ON SHEET C-79

LIFT STATION INSTALLATION

1. GEOTECHNICAL ENGINEERING REPRESENTATION TO BE ONSITE DURING THE INSTALLATION OF THE LIFT STATION.
2. DEWATERING MAY BE NECESSARY FOR INSTALLATION OF THE LIFT STATION. LIFT STATION TO BE CONSTRUCTED IN A DRY CONDITION.
3. LIFT STATION EXCAVATION TO BE UNDERCUT BY A MINIMUM OF 2 FEET AND REPLACED WITH SUITABLE GRANULAR BEARING MATERIAL SUCH AS NO. 57 STONE.
4. STRATUM 1 AND 2 SOILS CAN BE USED AS BACKFILL ONCE DRIED BACK TO OPTIMUM MOISTURE CONTENT.
5. STRATUM 3 MATERIAL ENCOUNTERED DURING INSTALLATION SHALL NOT BE USED FOR BACKFILL MATERIAL.

NOTE:
CONTRACTOR TO INSTALL EMERGENCY CONTACT SIGNAGE ON THE LIFT STATION CONTROL PANEL INDICATING THE FOLLOWING:

FOR EMERGENCY CALL (XXX)-XXX-XXXX.

SIGNAGE SHALL BE PERMANENT TYPE AND VISIBLE FROM AT LEAST 25 FEET AWAY.

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PUMP STATION DETAILS (2)

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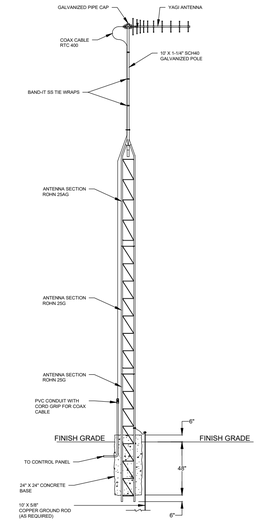
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WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
C-78

JOB No.: 24062



NOTES:

1. COAX CONNECTORS SHALL BE ENCASED IN ALPHA TYPE FIT HEAT SHRINK TUBING.

2. ANTENNA GROUND TO BE BONDED WITH ELECTRIC CONTROL PANEL GROUND ROD.

3. GROUNDING ROD LENGTH AND QUANTITY AS REQUIRED TO ACHIEVE MAXIMUM GROUND RESISTANCE OF 5.0 OHMS.

4. "YAGI" (HIGHLY DIRECTIONAL) ANTENNA MODEL RTA209 AS SUPPLIED BY DATA FLOW SYSTEMS.

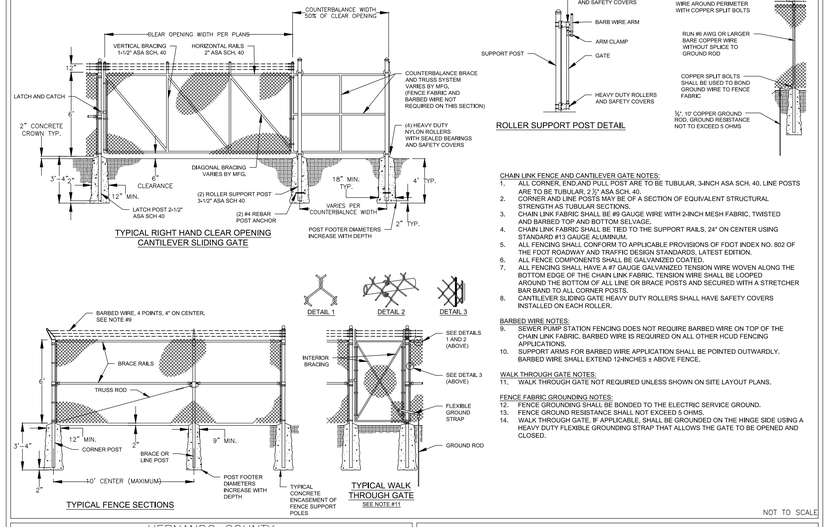
5. ANTENNA HEIGHT SHALL BE DETERMINED BY DATA FLOW SYSTEMS PER THEIR RADIO STUDY.

DATA FLOW SYSTEMS ANTENNA

1-1/4" POLE / 150 MPH WIND RATING

NOT TO SCALE

HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	DATA FLOW SYSTEMS ANTENNA
	DATE: JUNE 2023
	DETAIL: G-10



CHAIN LINK FENCE AND CANTILEVER GATE NOTES:

1. ALL CORNER, END,AND PULL POST ARE TO BE TUBULAR, 3-INCH ASA SCH. 40, LINE POSTS ARE TO BE TUBULAR, 2 ½" ASA SCH. 40.
2. CORNER AND LINE POSTS MAY BE OF A SECTION OF EQUIVALENT STRUCTURAL STRENGTH AS TUBULAR SECTIONS.
3. CHAIN LINK FABRIC SHALL BE #9 GAUGE WIRE WITH 2-INCH MESH FABRIC, TWISTED AND BARBED TOP AND BOTTOM SELVAGE.
4. CHAIN LINK FABRIC SHALL BE TIED TO THE SUPPORT RAILS, 24" ON CENTER USING STANDARD #13 GAUGE ALUMINUM.
5. ALL FENCING SHALL CONFORM TO APPLICABLE PROVISIONS OF FDOT INDEX NO. 802 OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION.
6. ALL FENCE COMPONENTS SHALL BE GALVANIZED COATED.
7. ALL FENCING SHALL HAVE A #7 GAUGE GALVANIZED TENSION WIRE WOVEN ALONG THE BOTTOM EDGE OF THE CHAIN LINK FABRIC. TENSION WIRE SHALL BE LOOPED AROUND THE BOTTOM OF ALL LINE OR BRACE POSTS AND SECURED WITH A STRETCHER BAR BAND TO ALL CORNER POSTS.
8. CANTILEVER SLIDING GATE HEAVY DUTY ROLLERS SHALL HAVE SAFETY COVERS INSTALLED ON EACH ROLLER.

BARBED WIRE NOTES:

9. SEWER PUMP STATION FENCING DOES NOT REQUIRE BARBED WIRE ON TOP OF THE CHAIN LINK FABRIC. BARBED WIRE IS REQUIRED ON ALL OTHER HCUD FENCING APPLICATIONS.
10. SUPPORT ARMS FOR BARBED WIRE APPLICATION SHALL BE POINTED OUTWARDLY. BARBED WIRE SHALL EXTEND 12-INCHES ± ABOVE FENCE.

WALK THROUGH GATE NOTES:

11. WALK THROUGH GATE NOT REQUIRED UNLESS SHOWN ON SITE LAYOUT PLANS.

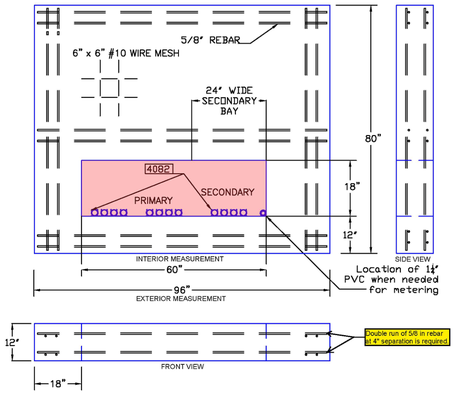
FENCE FABRIC GROUNDING NOTES:

12. FENCE GROUNDING SHALL BE BONDED TO THE ELECTRIC SERVICE GROUND.
13. FENCE GROUND RESISTANCE SHALL NOT EXCEED 5 OHMS.
14. WALK THROUGH GATE, IF APPLICABLE, SHALL BE GROUNDED ON THE HINGE SIDE USING A HEAVY DUTY FLEXIBLE GROUNDING STRAP THAT ALLOWS THE GATE TO BE OPENED AND CLOSED.

NOT TO SCALE

HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	SECURITY FENCING
	DATE: JUNE 2023
	DETAIL: G-09

WITHLACOOCHEE RIVER ELECTRIC COOPERATIVE, INC.



NOTE:

1. SLAB SHALL BE FORMED AND POURED IN PLACE.
2. CONCRETE SHALL BE A MINIMUM DESIGN STRENGTH OF 3000 psi.
3. STEEL REINFORCING SHALL BE 6' X 6' #10 WIRE MESH AND #5(⅝ IN) REINFORCING BARS
4. FIBER REINFORCED CONCRETE CAN BE AN ALTERNATIVE FOR WIRE MESH. THE MIXTURE SHALL BE 1.5 lbs. OF FIBERMESH PER YARD OF CONCRETE.
5. MUST MAINTAIN CLEAR AREA 5 ft ON EACH SIDE AND THE REAR AND 10 ft ON THE FRONT SIDE OF THE TRANSFORMER.
6. IF BOLARDS ARE NEEDED THEY MAY BE SET 18' FROM THE EDGE OF THE TRANSFORMER PAD. THEY CAN NOT BE SET IN FRONT OF THE TRANSFORMER DUE TO ACCESS AND THE 10 ft MINIMUM CLEARANCE.
7. METER BASE FOR CT'S SHALL BE NO MORE THAN 10 LINEAR FEET FROM THE PVC LOCATION INSIDE THE TRANSFORMER'S CABINET. THE CT CABLE CONDUIT SHALL BE 1¼" OR LARGER IN DIAMETER.
8. APPROXIMATE WEIGHT 6580 lbs

DRAWING IS NOT TO SCALE

Drawn By: DEM	Date Drawn: 3/30/2009	**14.4/24.9 KV PRIMARY, UNDERGROUND, CONCRETE PAD, 3-PHASE TRANSFORMERS 75, 100, 150, OR 225 KVA**	**REV# :** 001
Approved By: WHP	Date Updated: 2/9/2010		
Old CU: ---	DWG Name: UMT225.DWG		UMT225

PUMP STATION DETAILS (3)

VERONA HILLS

DRAWING INVALID UNLESS SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL ENGINEER

BRIAN T. LAMBERG, P.E. No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

Coastal
engineering associates, inc.
Engineering
Planning
Surveying
Environmental
Transportation
Construction Management
966 Candlelight Boulevard - Brooksville - Florida 34601
(352) 796-9404 - Fax (352) 799-0369
EB-0000142

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DATE	REV. BY	REV. NO.	REVISION
02/02/26	DG	1	REVISED PER COUNTY COMMENTS

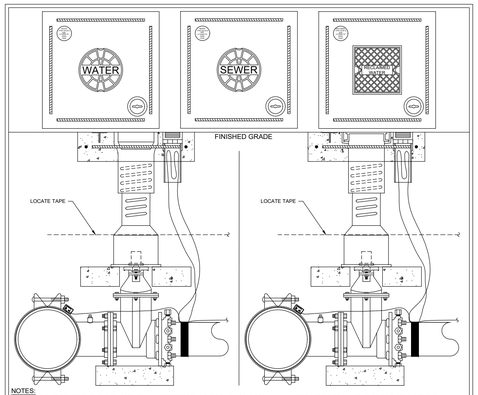
WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET

C-79

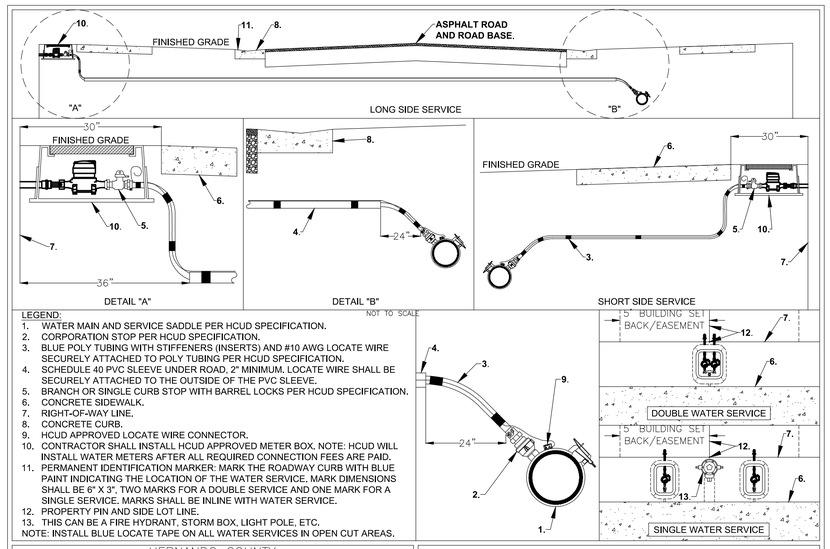
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PRINTED: 02/02/2026 - 9:02am PRINTED BY: DA PATH: L:\24062\VERONA HILLS\dwg\ENGS\Current\24062 - DT.dwg



NOTES:
1. 24"x24"x6" POURED IN PLACE 4000 PSI CONCRETE VALVE PAD. INSTALLATION INCLUDES MINIMUM FOUR #4 REBAR AROUND THE PERIMETER OF PAD, ONE 3" SCHEDULE 40 PVC FEMALE ADAPTOR WITH PVC FLUSH MOUNT THREADED CAP AND MINIMUM 8" LENGTH OF PVC PIPE FOR LOCATE WIRE ACCESS PORT, ONE 3" ROUND SOLID CAST BRASS VALVE IDENTIFICATION TAG WITH 2"X 1/4" THEFT PROOF ANCHOR PIN AND ONE 5 1/4" X 2 PIECE HEAVY DUTY ADJUSTABLE LENGTH SCREW TYPE CAST IRON VALVE BOX, AS SHOWN. NOTE: SEE VALVE PAD IN DRIVEWAY AND ROADWAY DETAIL FOR VALVES UNDER ASPHALT ROADWAYS OR OTHER TYPE DRIVEWAYS.
2. 3" ROUND SOLID CAST BRASS VALVE IDENTIFICATION TAG SHALL HAVE THE FOLLOWING INFORMATION ENGRAVED IN FOUR ROWS WITH 3/8" LETTER HEIGHT ON THE ROUND DISK: ROW 1 - TYPE OF MAIN "WATER", "SEWER" OR "RECLAIM", ROW 2 - TYPE OF VALVE AND SIZE, ROW 3 - THE AMOUNT OF TURNS TO OPEN OR CLOSE VALVE, ROW 4 - THE YEAR OF INSTALLATION.
3. CAST IRON VALVE BOX ACCESS LIDS SHALL HAVE THE TYPE OF INFRASTRUCTURE IT IS CAST INTO THE LID, "WATER", "SEWER", OR "RECLAIM" AND PAINTED BLUE FOR WATER, GREEN FOR SEWER AND PURPLE FOR RECLAIM.
4. LOCATE WIRE SHALL BE #10 AWG SOLID COPPER OR COPPER CLAD. INSULATION COLOR SHALL BE BLUE FOR WATER, GREEN FOR SEWER AND PURPLE FOR RECLAIMED WATER. LOCATE WIRE SHALL BE CONNECTED TO THE EXISTING LOCATE WIRE ON THE MAIN THAT IS BEING TAPPED WITH AN HCUD APPROVED LOCATE WIRE CONNECTOR. LOCATE WIRE SHALL EXTEND 18" ABOVE PAD. COAT THREADS ON PVC CAP WITH GREASE OR ANTI-SEIZE LUBRICANT AND THREAD CAP ALL THE WAY DOWN FLUSH INTO FEMALE ADAPTOR.
5. TAPPING SADDLE (SLEEVE) SHALL BE FULL WRAP STAINLESS STEEL REGARDLESS OF SIZE WITH STAINLESS STEEL HARDWARE.
6. A PRE-CAST CONCRETE SUPPORT BLOCK FOR THE VALVE SHALL BE INSTALLED AS SHOWN. THE MINIMUM SIZE REQUIRED SHALL BE 16"x8"x4" SOLID CONCRETE BLOCK.
7. A MINIMUM OF TWO 16"x8"x4" CONCRETE SUPPORT BLOCKS SHALL BE INSTALLED UNDER THE BOTTOM OF THE VALVE BOX FOR SUPPORT AS SHOWN.

HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	WET TAP
DATE: JUNE 2023	DETAIL: G-01



LEGEND:
1. WATER MAIN AND SERVICE SADDLE PER HCUD SPECIFICATION.
2. CORPORATION STOP PER HCUD SPECIFICATION.
3. BLUE POLY TUBING WITH STIFFENERS (INSERTS) AND #10 AWG LOCATE WIRE SECURELY ATTACHED TO POLY TUBING PER HCUD SPECIFICATION.
4. SCHEDULE 40 PVC SLEEVE UNDER ROAD, 2" MINIMUM. LOCATE WIRE SHALL BE SECURELY ATTACHED TO THE OUTSIDE OF THE PVC SLEEVE.
5. BRANCH OR SINGLE CURB STOP WITH BARREL LOCKS PER HCUD SPECIFICATION.
6. CONCRETE SIDEWALK.
7. RIGHT-OF-WAY LINE.
8. CONCRETE CURB.
9. HCUD APPROVED LOCATE WIRE CONNECTOR.
10. CONTRACTOR SHALL INSTALL HCUD APPROVED METER BOX, NOTE: HCUD WILL INSTALL WATER METERS AFTER ALL REQUIRED CONNECTION FEES ARE PAID.
11. PERMANENT IDENTIFICATION MARKER: MARK THE ROADWAY CURB WITH BLUE PAINT INDICATING THE LOCATION OF THE WATER SERVICE. MARK DIMENSIONS SHALL BE 6" X 3", TWO MARKS FOR A DOUBLE SERVICE AND ONE MARK FOR A SINGLE SERVICE. MARKS SHALL BE INLINE WITH WATER SERVICE.
12. PROPERTY PIN AND SIDE LOT LINE.
13. THIS CAN BE A FIRE HYDRANT, STORM BOX, LIGHT POLE, ETC.

NOTE: INSTALL BLUE LOCATE TAPE ON ALL WATER SERVICES IN OPEN CUT AREAS.

HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	LONG AND SHORT SIDE WATER SERVICES
DATE: JUNE 2023	DETAIL: W-04

PIPE SIZE (INCHES)	4	6	8	10	12	14	16	18	20	24
11¼° BEND	2(3)	3(4)	4(5)	5(6)	6(6)	6(7)	7(8)	8(9)	8(9)	9(11)
22½° BEND	5(5)	6(7)	8(9)	9(11)	11(12)	12(14)	13(16)	15(17)	16(18)	18(21)
45° BEND	9(10)	12(14)	16(18)	19(22)	22(25)	25(28)	27(32)	30(35)	33(38)	37(43)
90° BEND	21(24)	29(33)	37(44)	44(52)	52(60)	59(68)	65(76)	72(83)	78(91)	90(104)
CAPPED END *	43(61)	59(85)	78(111)	93(132)	109(155)	124(177)	139(198)	153(218)	167(238)	194(277)
IN-LINE VALVE **	35(50)	49(71)	64(92)	77(111)	90(130)	103(148)	115(165)	128(182)	139(198)	160(230)

DUCTILE IRON PIPE RESTRAINED JOINTS FOR HORIZONTAL FITTINGS

PIPE SIZE (INCHES)	4	6	8	10	12	14	16	18	20	24
11¼° BEND	5(6)	6(9)	8(11)	10(13)	11(16)	13(18)	14(20)	15(22)	17(24)	20(28)
22½° BEND	9(12)	12(17)	16(22)	19(27)	22(31)	25(36)	28(40)	31(44)	34(48)	39(56)
45° BEND	18(25)	25(35)	32(46)	39(55)	45(65)	52(73)	58(82)	64(91)	69(99)	81(115)
90° BEND	43(61)	59(85)	78(111)	93(132)	109(155)	124(177)	139(198)	153(218)	167(238)	194(277)

DUCTILE IRON PIPE RESTRAINED JOINTS FOR VERTICAL FITTINGS

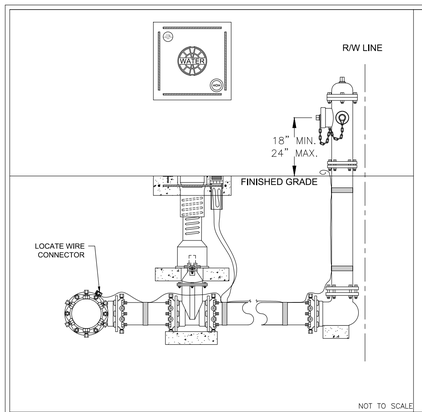
RUN (INCHES) \ BRANCH (INCHES)	4	6	8	10	12	14	16	18	20	24
4	21(30)									
6	11(15)	38(54)								
8	0(0)	31(44)	56(79)							
10	0(0)	23(32)	50(71)	71(101)						
12	0(0)	15(21)	44(62)	66(94)	87(123)					
14	0(0)	6(9)	37(53)	61(87)	82(117)	101(144)				
16	0(0)	0(0)	31(44)	56(79)	78(111)	98(139)	116(166)			
18	0(0)	0(0)	24(34)	50(71)	73(105)	94(134)	113(161)	130(185)		
20	0(0)	0(0)	17(24)	45(63)	69(98)	90(128)	109(156)	127(181)	144(205)	
24	0(0)	0(0)	2(3)	33(46)	59(84)	81(116)	102(146)	121(172)	138(197)	171(244)

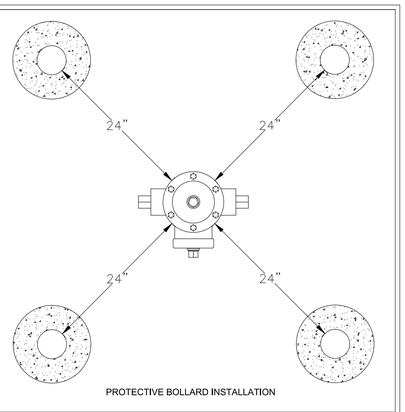
DUCTILE IRON PIPE TEE RESTRAINED JOINTS

NOTES:
1. THE PROGRAM "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" ON THE DUCTILE IRON PIPE RESEARCH ASSOCIATION (DIPRA) WEB SITE WAS USED TO CALCULATE THE LENGTH OF RESTRAINED JOINTS. THE CALCULATIONS ARE BASED ON TYPE 3 LAYING CONDITIONS, SANDY/SILTY SOIL DESIGNATION, 3.0 FEET MINIMUM COVERAGE AND 150 PSI OPERATING PRESSURE WITH A 1.5 TO 1 SAFETY FACTOR. THE LINEAR FEET SHOWN ARE MINIMUM REQUIREMENTS.
2. THE NUMBER IN PARENTHESIS REPRESENTS LINEAR FEET OF RESTRAINT FOR PVC PIPE AND POLY WRAPPED DUCTILE IRON PIPE.
3. THE LINEAR FEET OF PIPE IS MEASURED FROM THE FITTING OR VALVE OUT TO THE AMOUNT SHOWN ON THE CHART. ANY BELL OR JOINT WITHIN THAT MEASUREMENT SHALL HAVE A BELL OR JOINT RESTRAINT INSTALLED.
4. ALL BEND FITTINGS SHALL HAVE RESTRAINTS INSTALLED PER THE CHART IN BOTH DIRECTIONS.
5. BRANCH SIDE OF TEE IS TO BE RESTRAINED PER THE CHART.

* CAPPED ENDS ALSO INCLUDES VALVES INSTALLED AT THE END OF THE PIPE.
** IN-LINE VALVES SHALL BE RESTRAINED IN BOTH DIRECTIONS THE AMOUNT SHOWN ON CHART.

HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	PIPELINE JOINT RESTRAINT TABLE
DATE: JUNE 2023	DETAIL: G-05



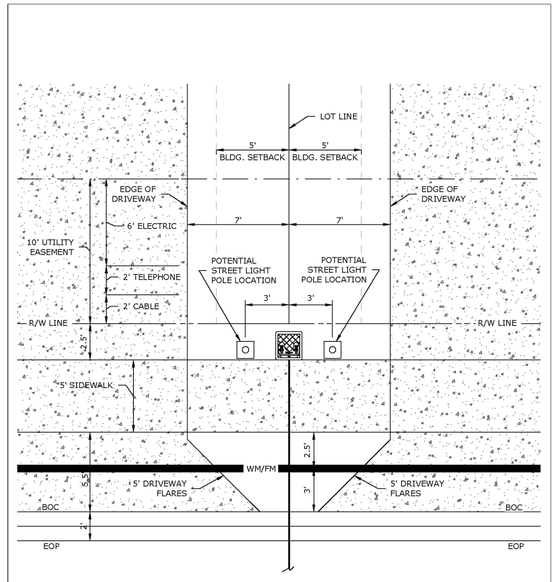


PROTECTIVE BOLLARD INSTALLATION

NOT TO SCALE

NOTES:
1. INSTALL FIRE HYDRANT STEAMER NOZZLE FACING STREET IF INSTALLED WITHIN COUNTY ROAD RIGHT-OF-WAY.
2. FIRE HYDRANT ASSEMBLY AND ISOLATION GATE VALVE SHALL HAVE A PRE-CAST CONCRETE SUPPORT BLOCK INSTALLED AS SHOWN. 16"x8"x4" MINIMUM SIZE.
3. ISOLATION GATE VALVES SHALL HAVE A HCUD SPECIFIED CONCRETE VALVE PAD AND #10 AWG LOCATE WIRE AS SHOWN.
4. WHEN FIRE HYDRANT ASSEMBLIES ARE INSTALLED IN PAVED SERVICE AREAS, PROTECTIVE BOLLARD STRUCTURES SHALL BE INSTALLED.
5. PROTECTIVE BOLLARD STRUCTURES SHALL CONSIST OF FOUR 4" SCHEDULE 40 STEEL PIPE, 72" EACH IN LENGTH, INSTALLED IN THE CENTER OF A TWELVE INCH DIAMETER HOLE 36" DEEP, ENCASED IN 4000 PSI CONCRETE MINIMUM AND SPACED AS SHOWN FROM THE FIRE HYDRANT.
6. BOLLARDS SHALL BE POURED SOLID WITH 4000 PSI MINIMUM CONCRETE AND PAINTED SAFETY YELLOW.
7. INSTALL BLUE LOCATE TAPE PER HCUD SPECIFICATIONS.

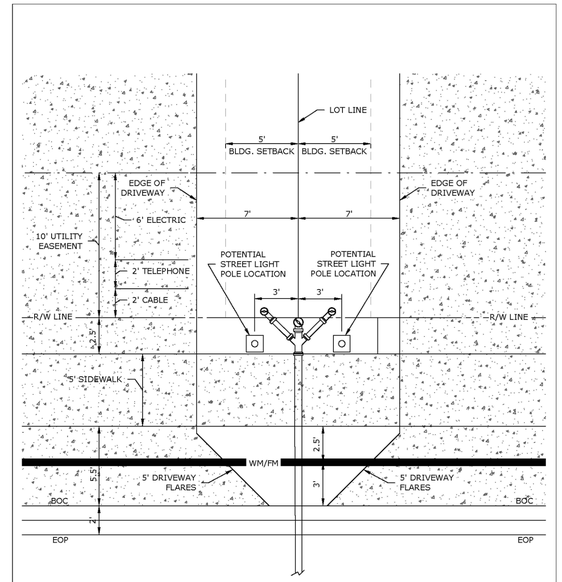
HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	FIRE HYDRANT ASSEMBLY
DATE: JUNE 2023	DETAIL: W-02



1" = 5' SCALE

Coastal engineering associates, inc. 966 Candlelight Boulevard - Brooksville - Florida 34601 (352) 796-9423 - Fax (352) 799-8359 EB-0000142	STANDARD UTILITY LOCATION W/ 5' SETBACKS	DATE 06/21/21
	WATER SERVICE	1

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Coastal engineering associates, inc. 966 Candlelight Boulevard - Brooksville - Florida 34601 (352) 796-9423 - Fax (352) 799-8359 EB-0000142	STANDARD UTILITY LOCATION W/ 5' SETBACKS	DATE 06/21/21
	SANITARY SEWER SERVICE	2

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UTILITY DETAILS (1)

VERONA HILLS

DRAWING INITIALLY SIGNED, DATED AND SEALED BY REGISTERED PROFESSIONAL ENGINEER
BRIAN J. MALMBERG P.E. FLORIDA REGISTRATION No. 59405
STATE OF FLORIDA PROFESSIONAL ENGINEER
No. 59405

Coastal engineering associates, inc.
Engineering
Planning
Surveying
Environmental
Transportation
Construction Management
966 Candlelight Boulevard - Brooksville - Florida 34601
(352) 796-9423 - Fax (352) 799-8359
EB-0000142

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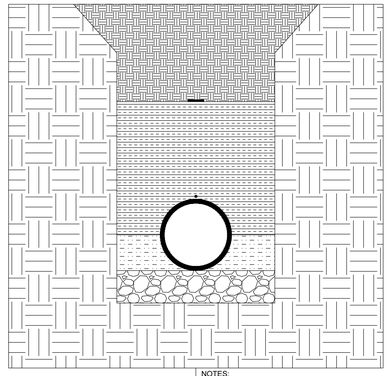
DATE	REV. BY	REV. NO.	REVISION
02/02/26	DG	1	REVISED PER COUNTY COMMENTS

WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
C-80

JOB No.: 24062

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UNDISTURBED GROUND

SELECT FILL PIPE BEDDING OR CRUSHED STONE (WET CONDITIONS)

TAMPED SELECT FILL PIPE BEDDING

SELECT BACKFILL

EXCAVATED MATERIAL

MAGNETIC LOCATE TAPE

#10 AWG LOCATE WIRE

NOTES:

1. SELECT BACKFILL MATERIAL SHALL BE CLEAN SOIL, FREE FROM ROCKS AND OTHER DEBRIS. BACKFILL MATERIAL SHALL BE APPROVED BY HCUD.
2. SELECT PIPE BEDDING MATERIAL SHALL BE CLEAN SOIL, FREE FROM ROCKS AND OTHER DEBRIS. EXCEPT FOR WET CONDITIONS. WET CONDITIONS SHALL REQUIRE CRUSHED STONE PIPE BEDDING. PIPE BEDDING MATERIAL SHALL BE APPROVED BY HCUD.
3. EXCAVATED MATERIAL THAT IS PLACED BACK INTO THE PIPE TRENCH SHALL HAVE ANY LARGE ROCKS, TREE ROOTS AND OTHER UNWANTED DEBRIS REMOVED BEFORE BACKFILLING.
4. #10 AWG LOCATE WIRE SHALL BE SECURELY ATTACHED TO THE TOP OF PIPE.
5. MAGNETIC LOCATE TAPE SHALL BE INSTALLED A MINIMUM OF 18-INCHES ABOVE THE TOP OF PIPE.

HERNANDO COUNTY
UTILITIES DEPARTMENT
15365 CORTEZ BOULEVARD
BROOKSVILLE, FLORIDA 34613
OFFICE: (352) 754-4037 FAX: (352) 754-4485

PIPE BACKFILL AND BEDDING

DATE: JUNE 2023

DETAIL: G-07

LOCATION OF PUBLIC WATER SYSTEM MAINS IN ACCORDANCE WITH F.A.C. RULE 62-555.314

OTHER PIPE	HORIZONTAL SEPARATION	CROSSINGS (1)	JOINT SPACING AT CROSSINGS (FULL JOINT CENTERED)
STORM SEWER, STORM WATER FORCE MAIN, RECLAIMED WATER (2)	WATER MAIN — 3 FEET MINIMUM	WATER MAIN — 12 INCHES MINIMUM, EXCEPT FOR STORM SEWER, THEN 6 INCHES IS MINIMUM, 12 INCHES PREFERRED	ALTERNATE 3 FOOT MINIMUM — WATER MAIN
VACUUM SANITARY SEWER	WATER MAIN — 10 FEET PREFERRED 3 FEET MINIMUM	WATER MAIN — 12 INCHES PREFERRED 6 INCHES MINIMUM	ALTERNATE 3 FOOT MINIMUM — WATER MAIN
GRAVITY OR PRESSURE, SANITARY SEWER, SANITARY SEWER FORCE MAIN, RECLAIMED WATER (4)	WATER MAIN — 10 FEET PREFERRED 6 FEET MINIMUM (3)	WATER MAIN — 12 INCHES MINIMUM, EXCEPT FOR GRAVITY SEWER, THEN 6 INCHES IS MINIMUM, 12 INCHES PREFERRED	ALTERNATE 6 FOOT MINIMUM — WATER MAIN
ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM	10 FEET MINIMUM	----	----

NOTES: (1) WATER MAIN SHOULD CROSS ABOVE OTHER PIPE, WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES.
(2) RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
(3) 3 FEET FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6 INCHES ABOVE THE TOP OF THE GRAVITY SANITARY SEWER.
(4) RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

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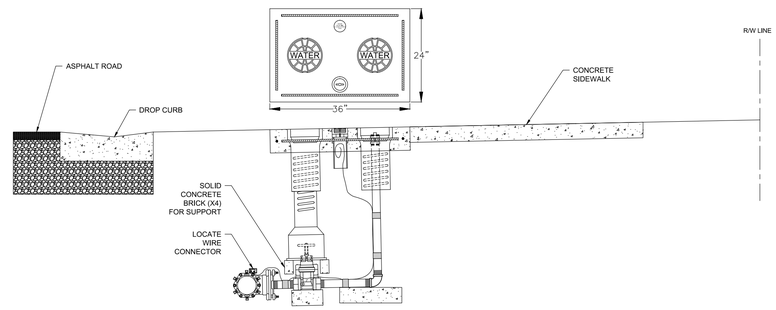
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HERNANDO COUNTY
UTILITIES DEPARTMENT
15365 CORTEZ BOULEVARD
BROOKSVILLE, FLORIDA 34613
OFFICE: (352) 754-4037 FAX: (352) 754-4485

FDEP PIPELINE SEPARATIONS

DATE: JUNE 2023

DETAIL: G-06

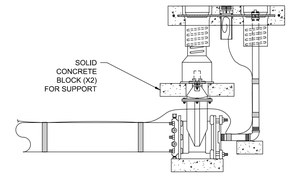


TYPICAL RESIDENTIAL CUL-DE-SAC INSTALLATION

NOT TO SCALE

NOTES:

1. CUL-DE-SAC INSTALLATION: 2" GATE VALVE SHALL BE RESILIENT WEDGE TYPE WITH NPT CONNECTIONS AND A 4.5" DIAMETER HAND WHEEL TO OPERATE VALVE. GATE VALVE AND PIPING SHALL BE SUPPORTED BY A 16"x8"x4" SOLID CONCRETE BLOCK, AS SHOWN.
2. PIPE SHALL BE 2" NPT GALVANIZED. PIPING SHALL BE THREADED INTO A MECHANICAL JOINT PLUG INSTALLED IN THE MAIN LINE TEE. PIPING WITH THREADED GALVANIZED COUPLING AND PLUG SHALL EXTEND UP INTO CAST IRON VALVE BOX AS CLOSE AS POSSIBLE TO TOP OF VALVE PAD AND STILL ALLOW THE VALVE BOX LID TO CLOSE PROPERLY. PLUG SHALL BE HAND TIGHT ONLY.
3. A HCUD SPECIFIED 36"x24"x6" POURED IN PLACE CONCRETE VALVE PAD WITH 3" PVC LOCATE WIRE RISER AND 3" BRASS VALVE IDENTIFICATION TAG SHALL BE INSTALLED, AS SHOWN. COAT THREADS ON PVC CAP WITH GREASE OR ANTI-SEIZE LUBRICANT.
4. END OF WATER MAIN INSTALLATION: NO 2" GATE VALVE IS REQUIRED. GALVANIZED PIPING SHALL BE THREADED INTO MECHANICAL JOINT PLUG INSTALLED IN MAIN LINE GATE VALVE. AS SHOWN, MAIN LINE SHALL BE RESTRAINED PER HCUD PIPELINE JOINT RESTRAINT DETAIL.



TYPICAL END OF WATER MAIN INSTALLATION

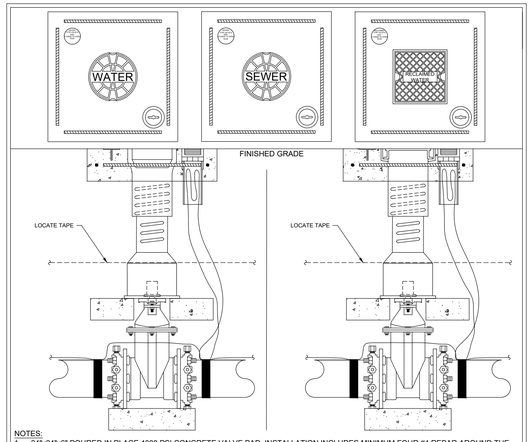
NOT TO SCALE

HERNANDO COUNTY
UTILITIES DEPARTMENT
15365 CORTEZ BOULEVARD
BROOKSVILLE, FLORIDA 34613
OFFICE: (352) 754-4037 FAX: (352) 754-4485

WATER MAIN BLOW-OFF

DATE: JUNE 2023

DETAIL: W-05



NOTES:

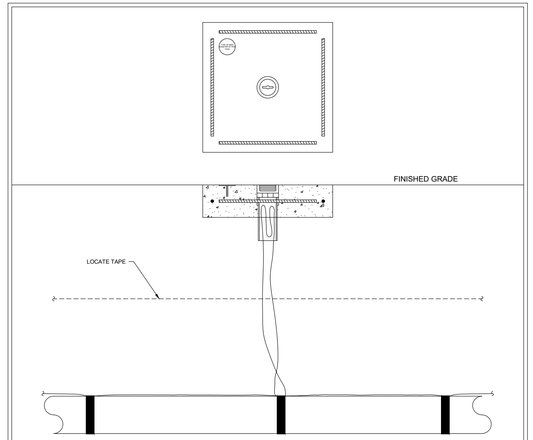
1. 24"x24"x6" POURED IN PLACE 4000 PSI CONCRETE VALVE PAD. INSTALLATION INCLUDES MINIMUM FOUR #4 REBAR AROUND THE PERIMETER OF PAD, ONE 3" SCHEDULE 40 PVC FEMALE ADAPTOR WITH PVC FLUSH MOUNT THREADED CAP AND MINIMUM 8" LENGTH OF PVC PIPE FOR LOCATE WIRE ACCESS PORT, ONE 3" ROUND SOLID CAST BRASS VALVE IDENTIFICATION TAG WITH 2"X 1/4" THEFT PROOF ANCHOR PIN AND ONE 5 1/4" 2 PIECE HEAVY DUTY ADJUSTABLE LENGTH SCREW TYPE CAST IRON VALVE BOX, AS SHOWN. NOTE: SEE VALVE PAD IN DRIVEWAY OR ROADWAY DETAIL FOR VALVES UNDER ASPHALT ROADWAYS OR OTHER TYPE DRIVEWAYS.
2. 3" ROUND SOLID CAST BRASS VALVE IDENTIFICATION TAG SHALL HAVE THE FOLLOWING INFORMATION ENGRAVED IN FOUR ROWS WITH 3/8" LETTER HEIGHT ON THE ROUND DISK: ROW 1 - TYPE OF MAIN "WATER", "SEWER" OR "RECLAIM", ROW 2 - TYPE OF VALVE AND SIZE, ROW 3 - THE AMOUNT OF TURNS TO OPEN OR CLOSE VALVE, ROW 4 - THE YEAR OF INSTALLATION.
3. CAST IRON VALVE BOX ACCESS LIDS SHALL HAVE THE TYPE OF INFRASTRUCTURE IT IS CAST INTO THE LID, "WATER", "SEWER", OR "RECLAIM" AND PAINTED BLUE FOR WATER, GREEN FOR SEWER AND PURPLE FOR RECLAIM.
4. LOCATE WIRE SHALL BE #10 AWG SOLID COPPER OR COPPER CLAD. INSULATION COLOR SHALL BE BLUE FOR WATER, GREEN FOR SEWER AND PURPLE FOR RECLAIMED WATER. LOCATE WIRE SHALL BE PULLED UP IN A CONTINUOUS LOOP INTO THE 3" PVC PIPE. LOCATE WIRE SHALL EXTEND 18" ABOVE PAD. COAT THREADS ON PVC CAP WITH GREASE OR ANTI-SEIZE LUBRICANT AND THREAD CAP ALL THE WAY DOWN FLUSH INTO THE FEMALE ADAPTOR.
5. A PRE-CAST CONCRETE SUPPORT BLOCK FOR THE VALVE SHALL BE INSTALLED AS SHOWN. THE MINIMUM SIZE REQUIRED SHALL BE 16"x8"x4" SOLID CONCRETE BLOCK.
6. A MINIMUM OF TWO 16"x8"x4" CONCRETE SUPPORT BLOCKS SHALL BE INSTALLED UNDER THE BOTTOM OF THE VALVEBOX FOR SUPPORT AS SHOWN.

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GATE VALVE

DATE: JUNE 2023

DETAIL: G-03



NOTES:

1. 24"x24"x6" POURED IN PLACE 4000 PSI CONCRETE LOCATE WIRE RISER PAD. INSTALLATION INCLUDES MINIMUM FOUR #4 REBAR AROUND THE PERIMETER OF PAD, ONE 3" SCHEDULE 40 PVC FEMALE ADAPTOR WITH PVC FLUSH MOUNT THREADED CAP AND MINIMUM 8" LENGTH OF PVC PIPE FOR LOCATE WIRE ACCESS PORT AND ONE 3" ROUND SOLID CAST BRASS PIPE LINE IDENTIFICATION TAG WITH 2"X 1/4" THEFT PROOF ANCHOR PIN, AS SHOWN. COAT THREADS ON PVC CAP WITH GREASE OR ANTI-SEIZE LUBRICANT AND THREAD CAP ALL THE WAY DOWN FLUSH INTO THE FEMALE ADAPTOR.
2. 3" ROUND SOLID CAST BRASS PIPE LINE IDENTIFICATION TAG SHALL HAVE THE FOLLOWING INFORMATION ENGRAVED IN THREE ROWS WITH 3/8" LETTER HEIGHT ON THE ROUND DISK: ROW 1 -TYPE OF PIPE LINE "WATER", "SEWER" OR "RECLAIM". ROW 2 - SIZE OF MAIN. ROW 3 - THE YEAR OF INSTALLATION.
3. LOCATE WIRE SHALL BE #10 AWG SOLID COPPER OR COPPER CLAD. INSULATION COLOR SHALL BE BLUE FOR WATER, GREEN FOR SEWER AND PURPLE FOR RECLAIMED WATER. LOCATE WIRE SHALL BE PULLED UP IN A CONTINUOUS LOOP INTO THE 3" PVC PIPE. LOCATE WIRE SHALL EXTEND 18" ABOVE PAD.
4. LOCATE WIRE RISERS SHALL BE USED ON LONGER INSTALLATIONS OF PIPE WHERE THERE ARE NO VALVE PADS TO ACCESS THE LOCATE WIRE. TYPICALLY INSTALLED NO MORE THAN EVERY 1000 LF OF PIPE.

NOT TO SCALE

HERNANDO COUNTY
UTILITIES DEPARTMENT
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BROOKSVILLE, FLORIDA 34613
OFFICE: (352) 754-4037 FAX: (352) 754-4485

LOCATE WIRE RISER

DATE: JUNE 2023

DETAIL: G-04

GRAVITY SEWER LINE TESTING

LOW PRESSURE AIR TEST TABLE

PIPE DIAMETERS IN INCHES

LENGTH OF PIPE IN FEET

	4"	6"	8"	10"	12"	15"	18"	21"	24"
25	0:04	0:10	0:18	0:28	0:40	1:02	1:27	2:01	2:38
50	0:09	0:20	0:35	0:55	1:19	2:04	2:58	4:03	5:17
75	0:13	0:30	0:53	1:23	1:59	3:06	4:27	6:04	7:55
100	0:18	0:40	1:10	1:50	2:38	4:08	5:56	8:05	10:34
125	0:22	0:50	1:28	2:18	3:18	5:09	7:26	9:55	11:20
150	0:26	0:59	1:46	2:45	3:58	6:11	8:30		
175	0:31	1:09	2:03	3:13	4:37	7:05			
200	0:35	1:19	2:21	3:40	5:17				12:06
225	0:40	1:29	2:38	4:08	5:40			10:25	13:36
250	0:44	1:39	2:56	4:35			8:31	11:35	15:07
275	0:48	1:49	3:14	4:43			9:21	12:44	16:38
300	0:53	1:59	3:31						
350	1:02	2:19	3:47			8:16	11:54	16:12	21:10
400	1:28	2:38			6:03	9:27	13:36	18:31	24:12

NOTES:

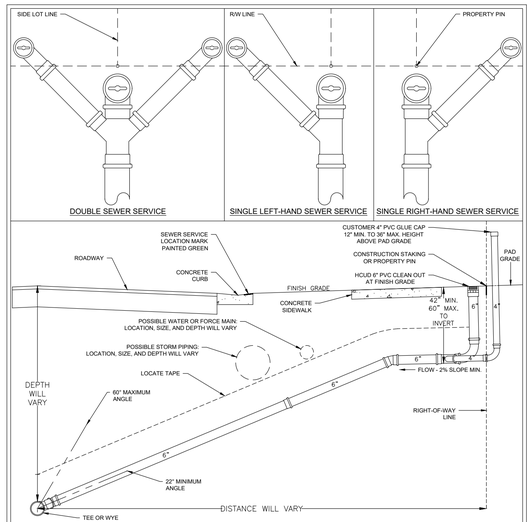
1. AIR TEST SHALL START AT 3.5 PSI AND DROP NO MORE THAN 1 PSI IN THE ELAPSED TIME SHOWN ON TABLE.
2. AIR PRESSURE GAUGE SHALL BE IN 1 PSI INCREMENTS.

HERNANDO COUNTY
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15365 CORTEZ BOULEVARD
BROOKSVILLE, FLORIDA 34613
OFFICE: (352) 754-4037 FAX: (352) 754-4485

AIR TEST TABLE

DATE: JUNE 2023

DETAIL: S-01



NOTES:

1. CLEAN-OUT SHALL HAVE A PVC FLUSH MOUNT THREADED CAP, NO BRASS CAPS ALLOWED. COAT CAP THREADS WITH GREASE OR ANTI-SEIZE LUBRICANT.
2. SINGLE SEWER SERVICES CAN BE EITHER LEFT-HAND OR RIGHT-HAND DEPENDING ON THE APPLICATION.
3. INSTALL SEWER LOCATE TAPE ON ALL SEWER SERVICES.
4. CONTRACTOR SHALL LOWER HCUD 6" CLEAN-OUTS FLUSH WITH FINISHED GRADE PRIOR TO PRELIMINARY WALK-THROUGH.
5. PLUMBING CONTRACTOR SHALL LOWER CUSTOMER 4" CLEAN-OUT FLUSH WITH PAD GRADE ONCE HOME IS CONNECTED.

NOT TO SCALE

HERNANDO COUNTY
UTILITIES DEPARTMENT
15365 CORTEZ BOULEVARD
BROOKSVILLE, FLORIDA 34613
OFFICE: (352) 754-4037 FAX: (352) 754-4485

RESIDENTIAL SEWER SERVICE

DATE: JUNE 2023

DETAIL: S-05

UTILITY DETAILS (2)

VERONA HILLS

Coastal
engineering associates, inc.
966 Candlelight Boulevard - Brooksville - Florida 34601
(352) 796-9404 - Fax (352) 799-0369
EB-0000142
Engineering
Planning
Surveying
Environmental
Transportation
Construction Management

DRAWING INVALID UNLESS SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL

BRIAN L. MALMBERG — STATE OF FLORIDA — PROFESSIONAL ENGINEER — No. 59405

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DATE	REV. BY	REV. NO.	REVISION
02/02/26	DG	1	REVISED PER COUNTY COMMENTS

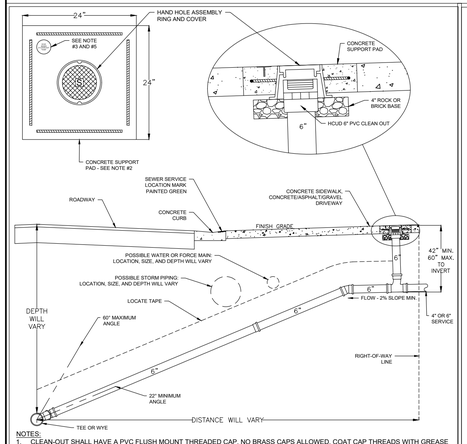
WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET

C-81

JOB No.: 24062

PRINTED: 02/02/2026 - 9:01am PRINTED BY: DA PATH: L:\24062\VERONA HILLS\dwg\ENG\Current\24062 - DT.dwg

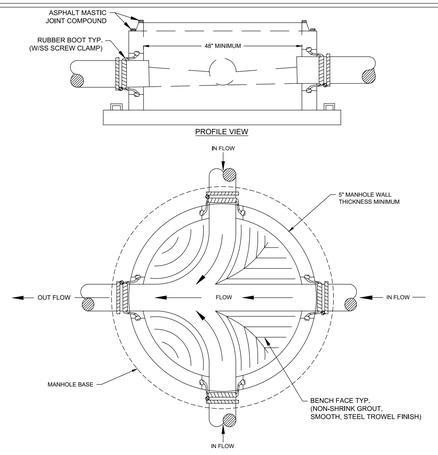


NOTES:

1. CLEAN-OUT SHALL HAVE A PVC FLUSH MOUNT THREADED CAP, NO BRASS CAPS ALLOWED. COAT CAP THREADS WITH GREASE OR ANTI-SEIZE LUBRICANT.
2. 24"x24"x6" POURED IN PLACE 4000 PSI CONCRETE PAD. INSTALLATION INCLUDES MINIMUM FOUR #4 REBAR AROUND THE PERIMETER OF PAD, ONE 3" ROUND SOLID CAST BRASS VALVE IDENTIFICATION TAG WITH 2"X 1/4" THEFT PROOF ANCHOR PIN AND ONE HAND HOLE ASSEMBLY WITH RING AND COVER, AS SHOWN.
3. 3" ROUND SOLID CAST BRASS VALVE IDENTIFICATION TAG SHALL HAVE THE FOLLOWING INFORMATION ENGRAVED IN FOUR ROWS WITH 3/8" LETTER HEIGHT ON THE ROUND DISK: ROW 1 - "HCUD". ROW 2 - "SEWER" ROW 3 - " 6"CLEAN-OUT ". ROW 4 - THE YEAR OF INSTALLATION.
4. INSTALL SEWER LOCATE TAPE ON ALL SEWER SERVICES.
5. IF THE CLEAN-OUT HAS TO BE INSTALLED OUTSIDE OF THE COUNTY RIGHT-OF-WAY OR HCUD EASEMENT, THE BRASS IDENTIFICATION TAG WILL NOT BE REQUIRED. IN THIS INSTANCE, HCUD WILL NOT OWN OR MAINTAIN THE CLEAN-OUT.
6. FOR COMMERCIAL APPLICATIONS, THIS DETAIL SHALL BE FOLLOWED.

NOT TO SCALE

HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	CLEAN-OUT INSTALLATION IN CONCRETE OR ASPHALT PAVEMENT	
	DATE: JUNE 2023	DETAIL: S-06

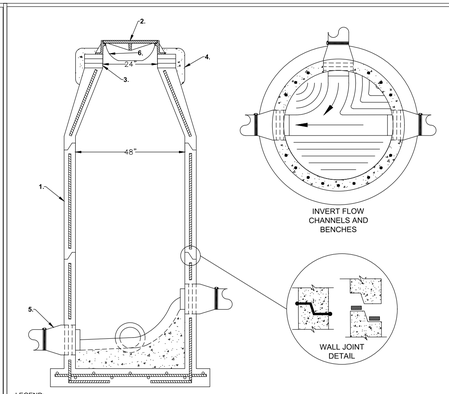


NOTES:

1. TROUGH AND BENCHES SHALL BE POURED WITH NON-SHRINK GROUT.
2. SURFACES SHALL BE SMOOTH, STEEL TROWEL FINISH.
3. BENCH FACES SHALL SLOPE TOWARDS INVERT TROUGH AT 1-INCH PER FOOT.
4. MINIMUM DEPTH OF TROUGH SHALL BE HALF THE DIAMETER OF THE IN-FLOW PIPE.
5. ALL EXPOSED CONCRETE SHALL BE COATED PER HCUD SPECIFICATIONS.

NOT TO SCALE

HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	MANHOLE BASE & INVERT TROUGH DETAIL	
	DETAIL: 27 PREVIOUS D-31	DATE: JUNE 2019



LEGEND:

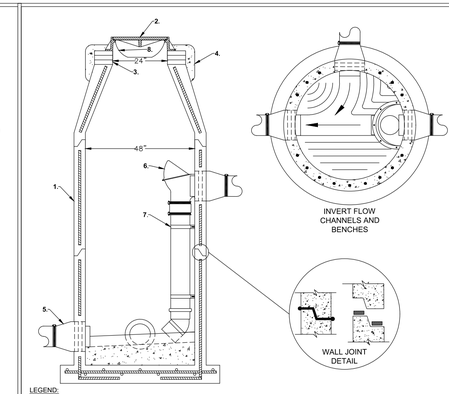
1. REFER TO THE HCUD STANDARDS AND TECHNICAL SPECIFICATIONS FOR TYPICAL MANHOLE SPECIFICATIONS INCLUDING EXTERIOR AND INTERIOR COATINGS.
2. SEE MANHOLE RING AND COVER DETAIL.
3. CONCRETE ADJUSTMENT RINGS, 18" MAXIMUM HEIGHT. NO BRICK OR BRICK PAVERS ALLOWED.
4. CONCRETE ENCASEMENT.
5. TYPICAL PIPE BOOT.
6. INFLOW PROTECTOR.

NOTES:

7. WALL JOINT DETAIL - USE A NON-HYDROEXPANSIVE WATERSTOP FOR IMPERMEABLE JOINTS BETWEEN PREFABRICATED STRUCTURES BASED ON BITUMINOUS RESINS, "RAM-NEK".
8. TROUGH AND BENCHES SHALL BE POURED WITH NON-SHRINK GROUT, SURFACE SHALL BE SMOOTH.
9. ALL EXPOSED CONCRETE SHALL BE COATED PER HCUD SPECIFICATIONS.
10. INVERT ELEVATIONS GREATER THAN 24" ABOVE THE LOWEST INVERT ELEVATION SHALL BE AN INSIDE DROP. SEE TYPICAL INSIDE DROP MANHOLE DETAIL.

NOT TO SCALE

HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	TYPICAL MANHOLE	
	DATE: JUNE 2023	DETAIL: S-02



LEGEND:

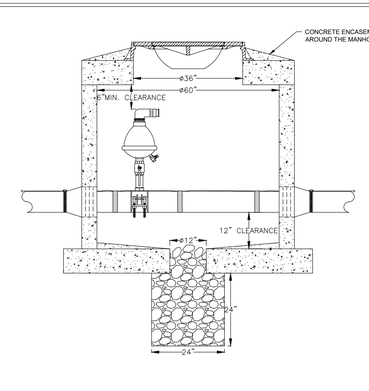
1. REFER TO THE HCUD STANDARDS AND TECHNICAL SPECIFICATIONS FOR TYPICAL MANHOLE SPECIFICATIONS INCLUDING EXTERIOR AND INTERIOR COATINGS.
2. SEE MANHOLE RING AND COVER DETAIL.
3. CONCRETE ADJUSTMENT RINGS, 18" MAXIMUM HEIGHT. NO BRICK OR BRICK PAVERS ALLOWED.
4. CONCRETE ENCASEMENT.
5. TYPICAL PIPE BOOT.
6. SANITARY MANHOLE INSIDE DROP BOWL WITH HOOD. HCUD APPROVED SEALANT SHALL BE USED WHERE DROP BOWL ATTACHES TO INSIDE WALL OF MANHOLE TO PREVENT ANY LEAKAGE.
7. TYPICAL STAINLESS STEEL SUPPORT BRACKET.
8. INFLOW PROTECTOR.

NOTES:

9. WALL JOINT DETAIL - USE A NON-HYDROEXPANSIVE WATERSTOP FOR IMPERMEABLE JOINTS BETWEEN PREFABRICATED STRUCTURES BASED ON BITUMINOUS RESINS, "RAM-NEK".
10. INSIDE DROPS SHALL BE REQUIRED FOR GRAVITY MAINS ENTERING A MANHOLE WHERE THE VERTICAL DISTANCE IS 24" OR MORE ABOVE THE LOWEST INVERT CHANNEL.
11. TROUGH AND BENCHES SHALL BE POURED WITH NON-SHRINK GROUT, SURFACE SHALL BE SMOOTH.
12. ALL EXPOSED CONCRETE SHALL BE COATED PER HCUD SPECIFICATIONS.

NOT TO SCALE

HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	TYPICAL INSIDE DROP MANHOLE	
	DATE: JUNE 2023	DETAIL: S-03

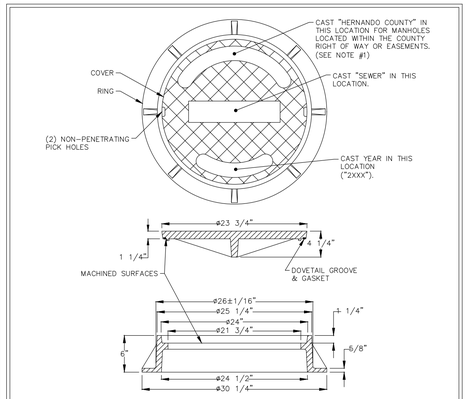


NOTES:

1. 36" RING AND COVER. SEE ARV RING AND COVER DETAIL. INFLOW PROTECTOR IS UTILIZED TO PREVENT THE INNER AND OUTER COVER FROM STICKING TOGETHER.
2. AIR/VACUUM RELEASE VALVE CONCRETE MANHOLE STRUCTURE SHALL BE PRECAST DESIGN WITH THE BASE SECTION MONOLITHICALLY CAST AND A 12-INCH DIAMETER SUMP OPENING FOR DRAINAGE. THE TOP AND BOTTOM SHALL BE MINIMUM 8" THICK WITH 5" THICK WALL. CONCRETE SHALL BE 4000 PSI MINIMUM. ASPHALT MASTIC JOINT COMPOUND SHALL BE USED TO SEAL THE TOP TO THE BARREL SECTION OF MANHOLE. DOG HOUSE STYLE MANHOLES ARE NOT ACCEPTABLE.
3. THE DRAINAGE SUMP SHALL BE LINED WITH FILTER FABRIC AND FILLED WITH FDOT #57 AGGREGATE TO THE DIMENSIONS SHOWN.
4. PIPE PENETRATION INTO MANHOLE SHALL UTILIZE A FLEXIBLE PIPE BOOT CONNECTOR.
5. TAPPING SADDLE SHALL BE STAINLESS STEEL WITH STAINLESS STEEL HARDWARE.
6. ALL 2" PIPING, FITTINGS, ISOLATION BALL VALVE, AND HARDWARE SHALL BE MINIMUM 316 STAINLESS STEEL. ISOLATION BALL VALVE SHALL BE ONE PIECE DESIGN, FULL PORT OPENING TYPE WITH NON-LOCKING OPERATING HANDLE.
7. AIR/VACUUM RELEASE VALVE SHALL HAVE A 2-INCH MIP THREADED INLET.
8. LOCATE WIRE SHALL BE #10 AWG SOLID COPPER OR COPPER CLAD. INSULATION COLOR SHALL BE GREEN FOR SEWER.
9. SEE HCUD STANDARDS AND TECHNICAL SPECIFICATIONS FOR INTERIOR OF ARV MANHOLE COATING REQUIREMENTS.

NOT TO SCALE

HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	INLINE ARV MANHOLE	
	DATE: JUNE 2023	DETAIL: S-07

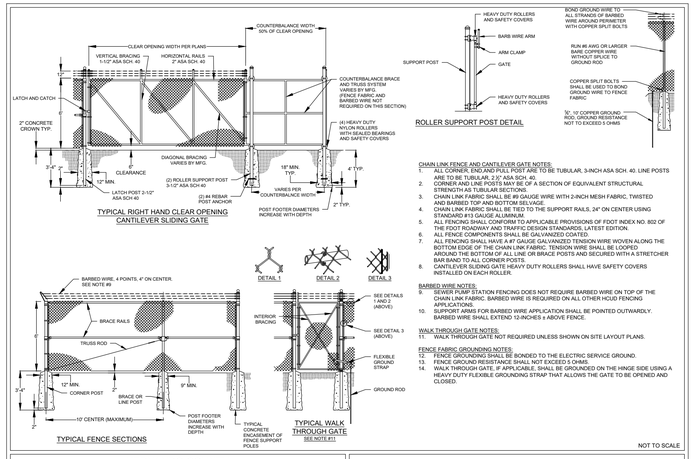


NOTES:

1. ALL NON-HCUD OWNED SEWER MANHOLE COVERS SHALL HAVE ONLY "SEWER" AND "YEAR" CAST IN COVER AS SHOWN.
2. ALL SEWER MANHOLES SHALL HAVE NON-VENTED INFLOW PROTECTORS INSTALLED UNDER THE COVER.
3. RING WEIGHT: APPROXIMATELY 150 LBS.
4. COVER WEIGHT: APPROXIMATELY 150 LBS.

NOT TO SCALE

HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	MANHOLE RING AND COVER	
	DATE: JUNE 2023	DETAIL: S-04



CHAIN LINK FENCE AND CANTILEVER GATE NOTES:

1. ALL CORNER, END AND PULL POST ARE TO BE TUBULAR, 3-INCH ASA SCH. 40. LINE POSTS ARE TO BE TUBULAR, 2 3/7" ASA SCH. 40.
2. CORNER AND LINE POSTS MAY BE OF A SECTION OF EQUIVALENT STRUCTURAL STRENGTH AS TUBULAR SECTIONS.
3. CHAIN LINK FABRIC SHALL BE #9 GAUGE WIRE WITH 2-INCH MESH FABRIC, TWISTED AND BARBED TOP AND BOTTOM SELVAGE.
4. CHAIN LINK FABRIC SHALL BE TIED TO THE SUPPORT RAILS, 24" ON CENTER USING STAINLESS STEEL WIRE OR CLIPS.
5. ALL FENCING SHALL CONFORM TO APPLICABLE PROVISIONS OF FDOT INDEX NO. 802 OF THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, LATEST EDITION.
6. ALL FENCE COMPONENTS SHALL BE GALVANIZED COATED.
7. ALL FENCING SHALL HAVE A #7 GAUGE GALVANIZED TENSION WIRE WOVEN ALONG THE BOTTOM EDGE OF THE CHAIN LINK FABRIC. TENSION WIRE SHALL BE LOOPED AROUND THE BOTTOM OF ALL LINE OR BRACE POSTS AND SECURED WITH A STRETCHER BAR BAND TO ALL CORNER POSTS.
8. CANTILEVER SLIDING GATE HEAVY DUTY ROLLERS SHALL HAVE SAFETY COVERS INSTALLED ON EACH ROLLER.

BARBED WIRE NOTES:

9. SEWER PUMP STATION FENCING DOES NOT REQUIRE BARBED WIRE ON TOP OF THE CHAIN LINK FABRIC. BARBED WIRE IS REQUIRED ON ALL OTHER HCUD FENCING APPLICATIONS.
10. SUPPORT ARMS FOR BARBED WIRE APPLICATION SHALL BE POINTED OUTWARDLY. BARBED WIRE SHALL EXTEND 12-INCHES ± ABOVE FENCE.

WALK THROUGH GATE NOTES:

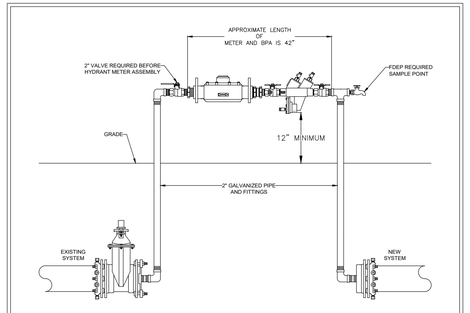
11. WALK THROUGH GATE NOT REQUIRED UNLESS SHOWN ON SITE LAYOUT PLANS.

FENCE FABRIC GROUNDING NOTES:

12. FENCE GROUNDING SHALL BE BONDED TO THE ELECTRIC SERVICE GROUND.
13. FENCE GROUNDING RESISTANCE SHALL NOT EXCEED 5 OHMS.
14. WALK THROUGH GATE, IF APPLICABLE, SHALL BE GROUNDED ON THE HINGE SIDE USING A HEAVY DUTY FLEXIBLE GROUNDING STRAP THAT ALLOWS THE GATE TO BE OPENED AND CLOSED.

NOT TO SCALE

HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	SECURITY FENCING	
	DATE: JUNE 2023	DETAIL: G-09

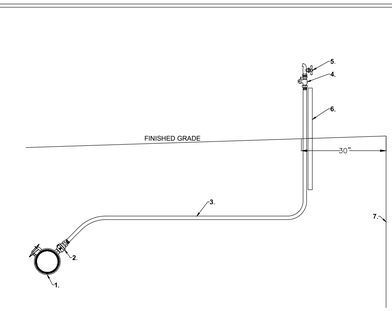


NOTES:

1. CONTACT HCUD TO SIGN UP FOR A HYDRANT METER ACCOUNT.
2. HCUD WILL SUPPLY METER AND BPA ASSEMBLY AFTER ACCOUNT IS SET UP AND FEES ARE PAID.
3. JUMPER METER ASSEMBLY SHALL BE PROPERLY SUPPORTED AT ALL TIMES.

NOT TO SCALE

HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	TEMPORARY WATER SERVICE CONNECTION/ JUMPER METER	
	DATE: JUNE 2023	DETAIL: W-03



LEGEND:

1. WATER MAIN AND SERVICE SADDLE PER HCUD SPECIFICATION.
2. CORPORATION STOP PER HCUD SPECIFICATION.
3. BLUE POLY TUBING WITH STIFFENERS (INSERTS). NO LOCATE WIRE IS REQUIRED ON THE TEMPORARY SAMPLE POINT.
4. SINGLE CTS X FIP CURB STOP WITH BARREL LOCK PER HCUD SPECIFICATION.
5. 3/4" HOSE BIB. HOSE BIB SHALL HAVE THE THREADED DISCHARGE END REMOVED SO THAT NO HOSES CAN BE ATTACHED TO IT.
6. WOOD 2X4 SUPPORT STAKE. TEMPORARY WATER SAMPLE POINT SHALL BE SECURELY ATTACHED TO SUPPORT STAKE.
7. RIGHT-OF-WAY LINE.

NOTES:

8. TEMPORARY WATER SAMPLE POINT SHALL BE REMOVED EXCEPT FOR SERVICE SADDLE AND CORPORATION STOP AFTER THE PASSING WATER SAMPLE RESULTS ARE SUBMITTED AND THE WATER SYSTEM IS PLACED INTO SERVICE BY FDEP. THE CORPORATION STOP SHALL BE CLOSED AND THE END CAPPED WITH A SCHEDULE 40 PVC CAP.
9. THE CONTRACTOR CAN NOT COLLECT THEIR OWN WATER SAMPLES. WATER SAMPLES MUST BE COLLECTED AND PROCESSED BY A STATE CERTIFIED LAB.

NOT TO SCALE

HERNANDO COUNTY UTILITIES DEPARTMENT 15365 CORTEZ BOULEVARD BROOKSVILLE, FLORIDA 34613 OFFICE: (352) 754-4037 FAX: (352) 754-4485	TEMPORARY WATER SAMPLE POINT	
	DATE: JUNE 2023	DETAIL: W-08

UTILITY DETAILS (3)

VERONA HILLS

BRIAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

DRAWING INVALID UNLESS SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL ENGINEER. BRIAN M. MALMBERG, P.E. FLORIDA REGISTRATION NO. 59405

Coastal engineering associates, inc.
Engineering
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966 Candlelight Boulevard - Brooksville - Florida 34601
(352) 796-0494 - Fax: (352) 799-0369
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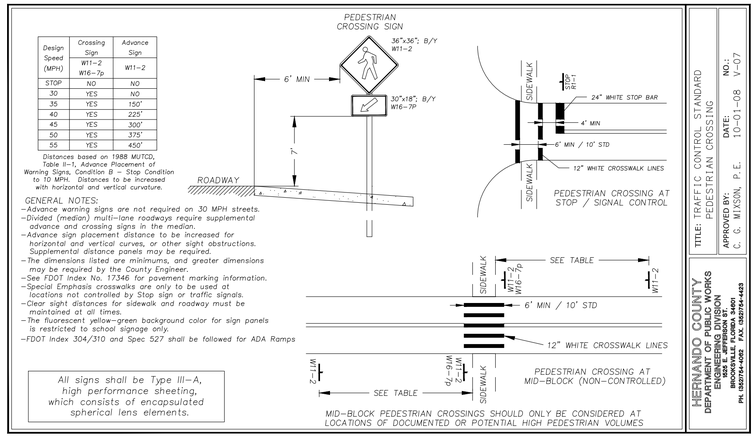
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SHEET

C-82

JOB No.: 24062

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Design Speed (MPH)	Crossing Sign W11-2 W16-7p	Advance Sign W11-2
STOP	NO	NO
30	YES	NO
35	YES	150'
40	YES	225'
45	YES	300'
50	YES	375'
55	YES	450'

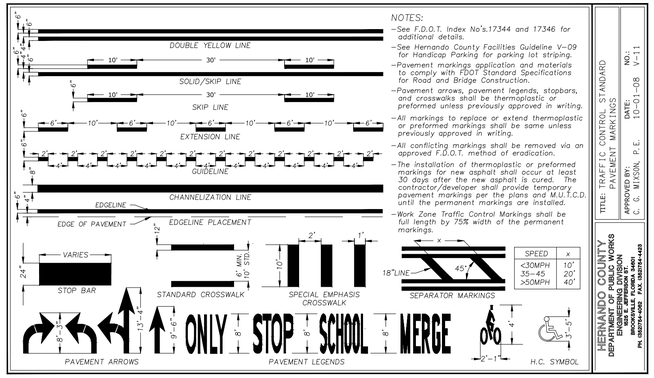
Distances based on 1988 MUTCD, Table II-1, Advance Placement of Warning Signs, Condition B - Stop Condition to 10 MPH. Distances to be increased with horizontal and vertical curvature.

GENERAL NOTES:
- Advance warning signs are not required on 30 MPH streets.
- Divided (median) multi-lane roadways require supplemental advance and crossing signs in the median.
- Advance sign placement distance to be increased for horizontal and vertical curves, or other sight obstructions. Supplemental distance panels may be required.
- The dimensions listed are minimums, and greater dimensions may be required by the County Engineer.
- See FDOT Index No. 17346 for pavement marking information.
- Special Emphasis crosswalks are only to be used at locations not controlled by Stop sign or traffic signals.
- Clear sight distances for sidewalk and roadway must be maintained at all times.
- The fluorescent yellow-green background color for sign panels is restricted to school signage only.
- FDOT Index 304/310 and Spec 527 shall be followed for ADA Ramps

All signs shall be Type III-A, high performance sheeting, which consists of encapsulated spherical lens elements.

TITLE: TRAFFIC CONTROL STANDARD PEDESTRIAN CROSSING
APPROVED BY: C. G. MIXSON, P.E.
DATE: 10-01-08
NO.: V-07

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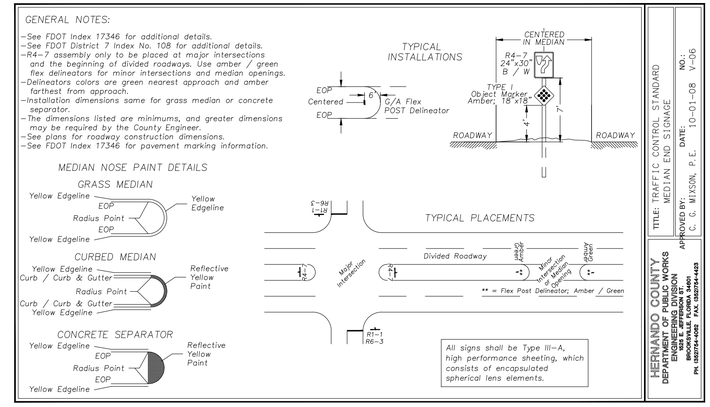


NOTES:
- See F.D.O.T. Index No's.17344 and 17346 for additional details.
- See Hernando County Facilities Guideline V-09 for Handicap Parking for parking lot striping.
- Pavement markings application and materials to comply with FDOT Standard Specifications for Road and Bridge Construction.
- Pavement arrows, pavement legends, stopbars, and crosswalks shall be thermoplastic or preformed unless previously approved in writing.
- All markings to replace or extend thermoplastic or preformed markings shall be same unless previously approved in writing.
- All conflicting markings shall be removed via an approved F.D.O.T. method of eradication.
- The installation of thermoplastic or preformed markings for new asphalt shall occur at least 30 days after the new asphalt is cured. The contractor/developer shall provide temporary pavement markings per the plans and M.U.T.C.D. until the permanent markings are installed.
- Work Zone Traffic Control Markings shall be full length by 75% width of the permanent markings.

TITLE: TRAFFIC CONTROL STANDARD PAVEMENT MARKINGS
APPROVED BY: C. G. MIXSON, P.E.
DATE: 10-01-08
NO.: V-11

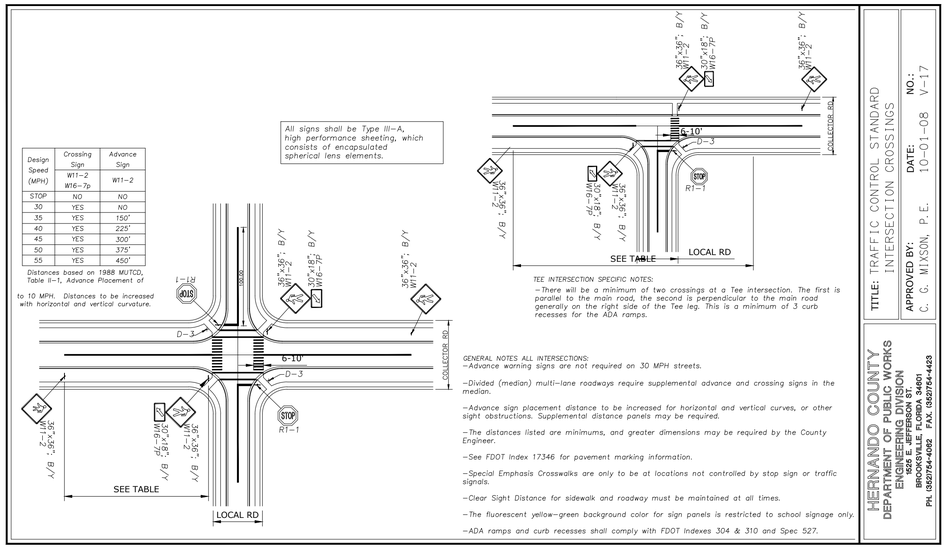
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GENERAL NOTES:
- See FDOT Index 17346 for additional details.
- See FDOT District 7 Index No. 108 for additional details.
- R4-7 assembly only to be placed at major intersections and the beginning of divided roadways. Use amber / green flex delineators for minor intersections and median openings.
- Delineators colors are green nearest approach and amber farthest from approach.
- Installation dimensions same for grass median or concrete separator.
- The dimensions listed are minimums, and greater dimensions may be required by the County Engineer.
- See plans for roadway construction dimensions.
- See FDOT Index 17346 for pavement marking information.



TITLE: TRAFFIC CONTROL STANDARD MEDIAN END SIGNAGE
APPROVED BY: C. G. MIXSON, P.E.
DATE: 10-01-08
NO.: V-06

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Design Speed (MPH)	Crossing Sign W11-2 W16-7p	Advance Sign W11-2
STOP	NO	NO
30	YES	NO
35	YES	150'
40	YES	225'
45	YES	300'
50	YES	375'
55	YES	450'

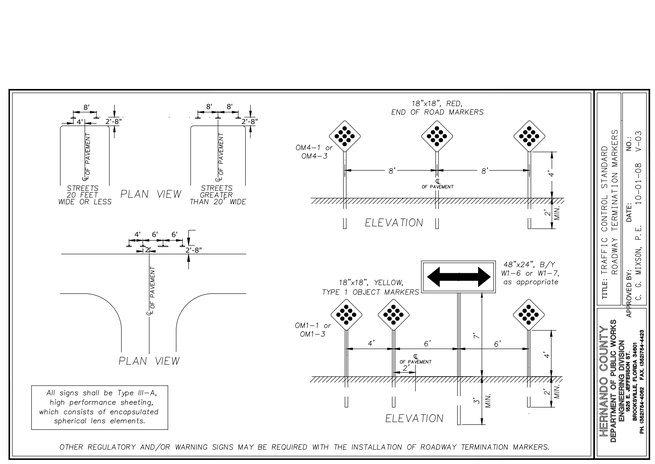
Distances based on 1988 MUTCD, Table II-1, Advance Placement of to 10 MPH. Distances to be increased with horizontal and vertical curvature.

All signs shall be Type III-A, high performance sheeting, which consists of encapsulated spherical lens elements.

GENERAL NOTES ALL INTERSECTIONS:
- Advance warning signs are not required on 30 MPH streets.
- Divided (median) multi-lane roadways require supplemental advance and crossing signs in the median.
- Advance sign placement distance to be increased for horizontal and vertical curves, or other sight obstructions. Supplemental distance panels may be required.
- The distances listed are minimums, and greater dimensions may be required by the County Engineer.
- See FDOT Index 17346 for pavement marking information.
- Special Emphasis Crosswalks are only to be at locations not controlled by stop sign or traffic signals.
- Clear Sight Distance for sidewalk and roadway must be maintained at all times.
- The fluorescent yellow-green background color for sign panels is restricted to school signage only.
- ADA ramps and curb recesses shall comply with FDOT Indexes 304 & 310 and Spec 527.

TITLE: TRAFFIC CONTROL STANDARD INTERSECTION CROSSINGS
APPROVED BY: C. G. MIXSON, P.E.
DATE: 10-01-08
NO.: V-17

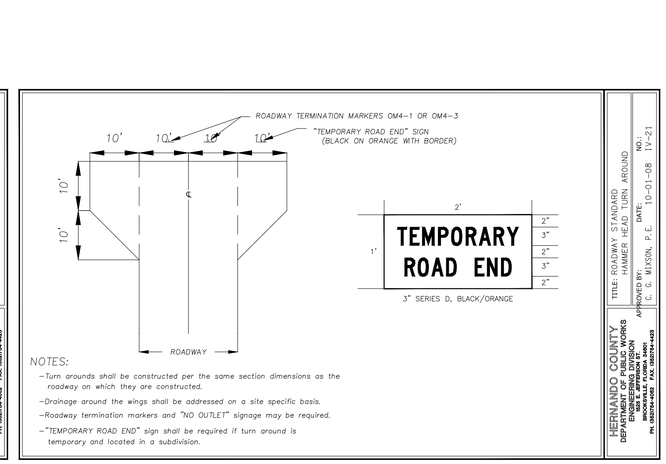
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OTHER REGULATORY AND/OR WARNING SIGNS MAY BE REQUIRED WITH THE INSTALLATION OF ROADWAY TERMINATION MARKERS.

TITLE: TRAFFIC CONTROL STANDARD ROADWAY TERMINATION MARKERS
APPROVED BY: C. G. MIXSON, P.E.
DATE: 10-01-08
NO.: V-03

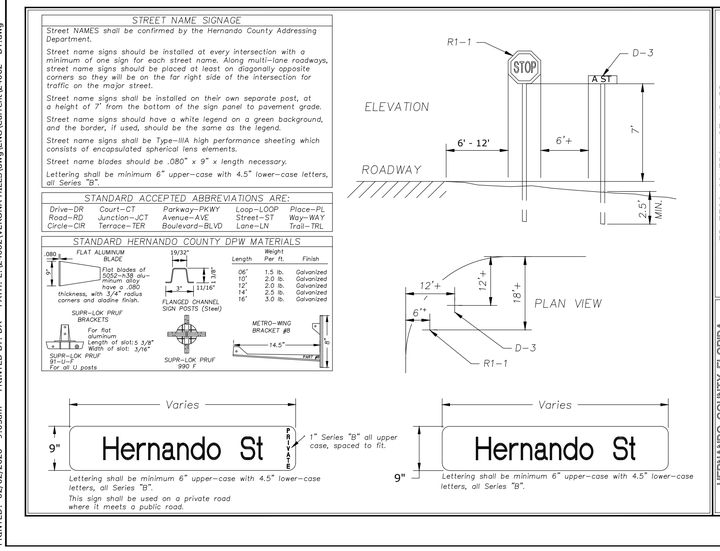
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NOTES:
- Turn arounds shall be constructed per the same section dimensions as the roadway on which they are constructed.
- Drainage around the wings shall be addressed on a site specific basis.
- Roadway termination markers and "NO OUTLET" signage may be required.
- "TEMPORARY ROAD END" sign shall be required if turn around is temporary and located in a subdivision.

TITLE: ROADWAY STANDARD HAMMER HEAD TURN AROUND
APPROVED BY: C. G. MIXSON, P.E.
DATE: 10-01-08
NO.: TV-21

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DEPARTMENT OF PUBLIC WORKS
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TITLE: TRAFFIC CONTROL STANDARD STREET NAME SIGNAGE
APPROVED BY: C. G. MIXSON, P.E.
DATE: 10-01-08
NO.: V-02

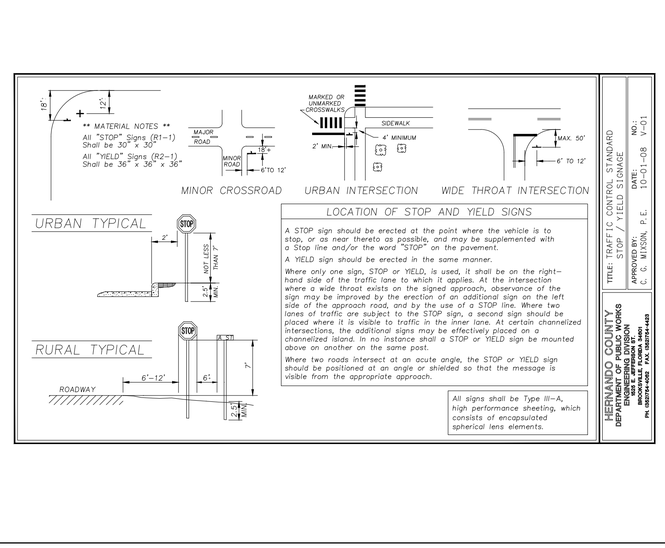
HERNANDO COUNTY FLORIDA
Department of Public Works
Engineering Division
1525 E. Jefferson St.
Brooksville, FL. 34601-2807
Ph. (352) 754-4082 Fax. (352) 754-4423

There are many various ways to accomplish the design of a traffic signal. The information contained on this sheet identifies some of the criteria for the design and construction of traffic signals in Hernando County.

1. All design and construction shall comply with the criteria set forth in the following publications:
   - FDOT Standard Specifications for Road and Bridge Construction, 2007, or latest;
   - FDOT Minimum Specifications for Traffic Control Signal Devices, 2000, or latest;
   - FDOT Design Standards (Index), 2008, or latest;
   - Hernando County Facility Design Guidelines, 2008.
2. Any roadway or intersection construction near an existing traffic signal may require reconstruction of parts or all of that signal. Traffic signals that are damaged during construction shall be repaired immediately at the contractor's expense.
3. Contact Public Works – Engineering for the latest format of traffic signal plans and specifications.
4. All new traffic signals shall be designed to FDOT standard mast arm specifications for 110 MPH, unless approved in writing by the County Engineer.
5. All new traffic signals shall include countdown pedestrian signals and detectors and ADA ramps unless otherwise approved in writing by the County Engineer.
6. All vehicular and pedestrian traffic signal indications shall be LED, with stainless steel hardware.
7. All vehicular traffic signal heads shall use tunnel visors. All east/west signal heads to have metal backplates.
8. Video detection (per County standards) is the preferred method of detection with mast arms. Loops are required for span wire supported signals.
9. All loops shall be Type 'F', 6' x 30', using a wrap pattern of 3-6-3, and the leading edge located 2' beyond the stop bar.
10. Signal power cables, detector cables, and fiber optic cables shall be located in separate conduits and pull boxes.
11. The controller cabinet assembly shall be FDOT Type V, with an Econolite TS-2-ASC 2s/2120-11 controller with all components as required per Hernando County specifications. Separate UPS cabinet required.
12. Street name signs shall be internally illuminated, and installed free swinging using County defined hardware.
13. Contractor shall provide 3 sets of "As-Built" plans, along with all documentation and testing, prior to project closeout.
14. All equipment shall be compatible with the Hernando County Signal System.
15. Any new signal proposed shall include fiber optic interconnect to any adjacent existing or pro-gammed traffic signal within 1.0 mile.
16. Splices in fiber optic cable are not permitted between signal cabinets. New continuous cable between controller cabinets is required when the fiber optic is severed for any reason.
17. All fiber ends shall be fusion spliced to a "pigtail" with a ST type connector, and have an identification tag stating the buffer color, fiber color, and cable origin. All fibers shall be OTDR tested, with the results provided to the County.

TITLE: TRAFFIC CONTROL STANDARD TRAFFIC SIGNALS
APPROVED BY: C. G. MIXSON, P.E.
DATE: 10-01-08
NO.: V-13

HERNANDO COUNTY
DEPARTMENT OF PUBLIC WORKS
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TITLE: TRAFFIC CONTROL STANDARD STOP / YIELD SIGNAGE
APPROVED BY: C. G. MIXSON, P.E.
DATE: 10-01-08
NO.: V-01

HERNANDO COUNTY
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SIGNAGE & STRIPING DETAILS

VERONA HILLS

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BRIAN L. MAJEWSKI, P.E.
No. 59405
STATE OF FLORIDA
PROFESSIONAL ENGINEER
FLORIDA CERTIFICATE NO. 59405

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TREE REMOVAL PLAN

VERONA HILLS

N

0 120 240 Feet

LEGEND

- TREE TO BE REMOVED
- TREE TO BE REMOVED RIGHT OF WAY ("0" MITIGATION INCHES)
- TREE TO BE SAVED
- PROTECTIVE TREE BARRIER
- SILT FENCE
- PRESERVED NATURAL VEGETATION BUFFERS AREA TO REMAIN UNCLEARED (7.42 ACRES) (7.42 ACRES REQUIRED)

BRIAN M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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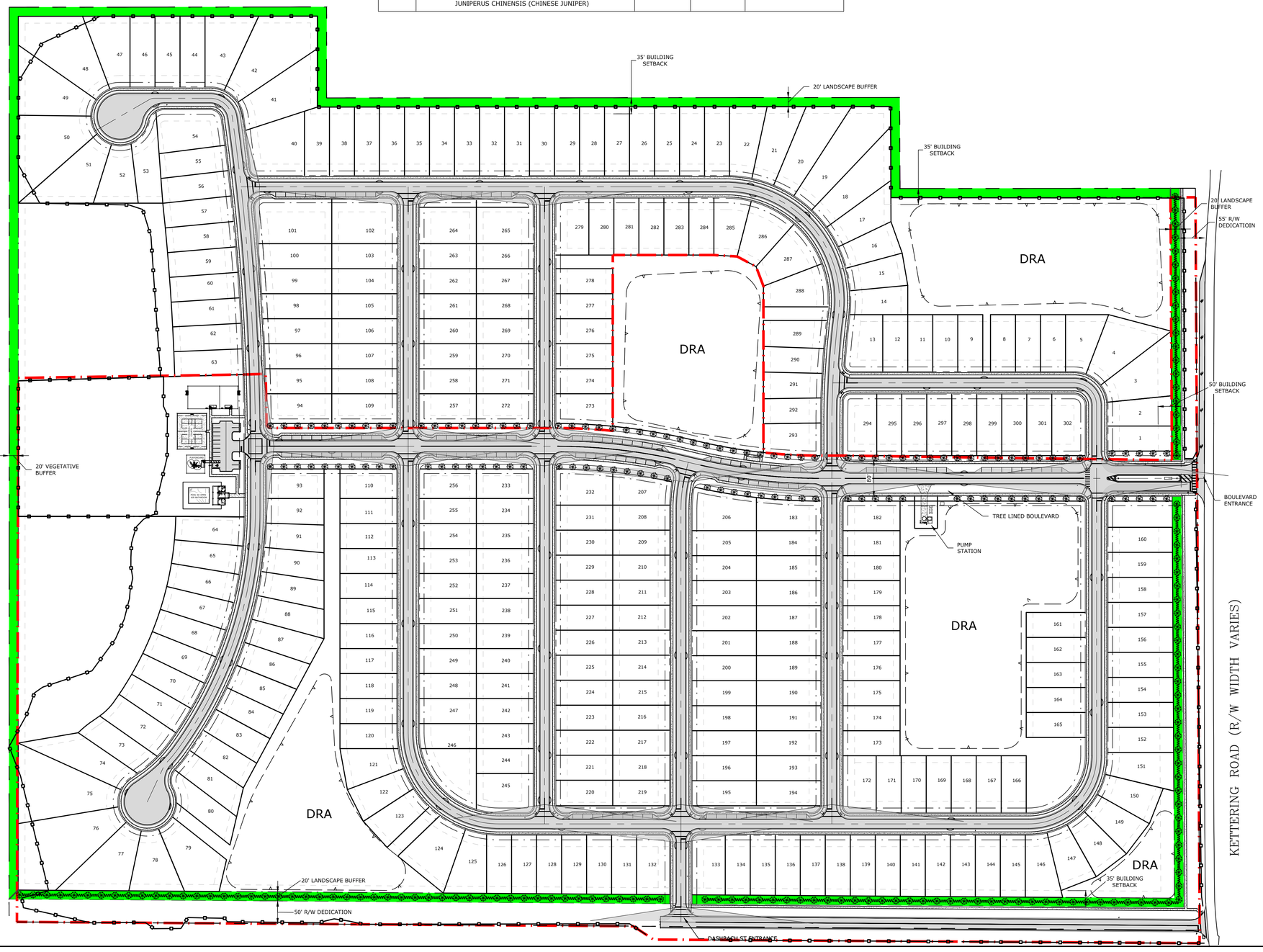
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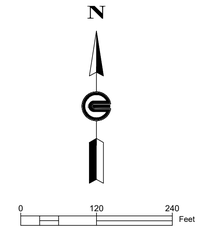
LANDSCAPE PLAN

VERONA HILLS

PLANT LIST

QUANTITY	BOTANICAL / COMMON NAME	SPACING	CONTAINER	SIZE
252	TREES: (NO MORE THAN 30% OF ANY SINGLE SPECIES) TYPES: MAGNOLIA GRANDIFLORIA (SOUTHERN MAGNOLIA), QUERCUS VIRGINIANA (LIVE OAK), ACER PSEUDOPLATANUS (SYCAMORE) QUERCUS SHUMARDII (SHUMARD OAK)	AS SHOWN		±8' HT., 3" CALIPER AT TIME OF PLANTING
1,039	SHRUBS (NO MORE THAN 30% OF ANY SINGLE SPECIES) TYPES: CALLISTEMON (BOTTLE BRUSH), CALLICARPA AMERICANA (BEAUTY BERRY) VITEX AGNUS-CASTUS (CHASTE TREE) ILEX CORNUTA (CHINESE HOLLY) JUNIPERUS CHINENSIS (CHINESE JUNIPER)	AS SHOWN	3 GAL. (MIN.)	



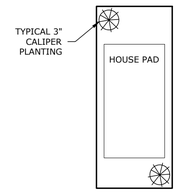


LEGEND

- PHASE LINE
- ASPHALT ROAD
- NATURAL PRESERVE VEGETATION
- MULCHED TRAIL

BUFFER NOTE (H2174):
THE BUFFER TRACTS INDICATED ON THIS PLAN WILL CONSIST OF NATURAL VEGETATION WHERE POSSIBLE, ENHANCED TO 80% OPACITY WHERE NEEDED. WHERE SITE GRADING REQUIRES THE REMOVAL OF NATURAL VEGETATION, A VEGETATIVE BUFFER WILL BE LANDSCAPED WITHIN THE BUFFER TRACT CONSISTING OF VEGETATION AND OPACITY CONSISTENT WITH COUNTY STANDARDS. BUFFER TRACTS WILL BE OWNED AND MAINTAINED BY THE HOA.

LANDSCAPE NOTES:
CONTRACTOR TO REMOVE ALL INVASIVE SPECIES WITHIN PRESERVATION AREAS PRIOR TO ANY REPLANTING OR ENHANCEMENT. COGON GRASS IS IDENTIFIED IN THE LIST OF INVASIVE SPECIES AND SHALL BE REMOVED IF FOUND TO BE LOCATED ON SITE.



TYPICAL LOT TREE PLANTING DETAIL
N.T.S.

NOTES:
1. LOCATION OF TREES TO BE DETERMINED AT TIME OF PLANTING.
2. TREE TYPE TO BE SELECTED FROM HERNANDO COUNTY APPROVED TREES

IRRIGATION NOTES:
1. IRRIGATION TO BE PROVIDED BY WELL.
2. WELL TO BE INSTALLED UNDER SEPARATE PERMIT AND APPLICATION.

NOTE:
HCUD IS NOT RESPONSIBLE FOR REPLACEMENT OF TREES OR LANDSCAPING LOCATED WITHIN RIGHT-OF-WAY OR DEDICATED UTILITY EASEMENTS IF THEY MUST BE REMOVED TO REPAIR / REPLACE THE UTILITY INFRASTRUCTURE.

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PLANNING LICENSE BRIAN M. MALMBERG No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

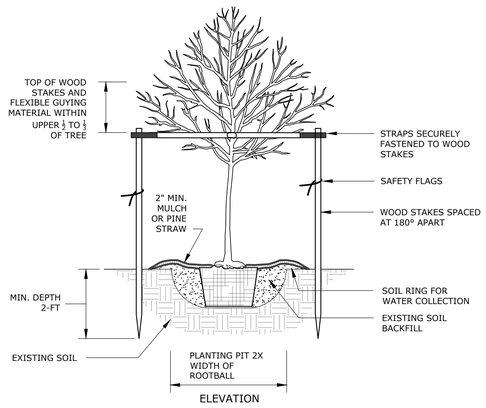
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(352) 796-9423 - Fax (352) 799-8359
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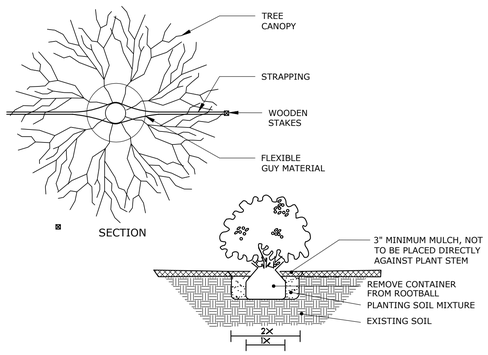
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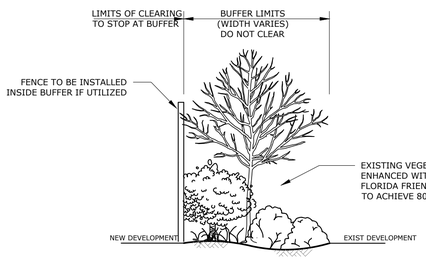
TREE PLANTING DETAIL

TREES <4" CALIPER
NOT TO SCALE



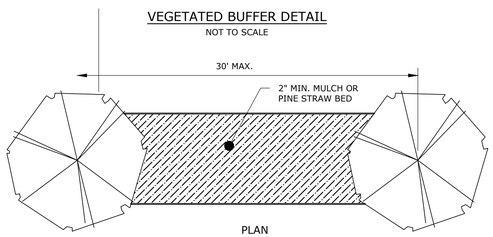
SHRUB PLANTING DETAIL

NOT TO SCALE



VEGETATED BUFFER DETAIL

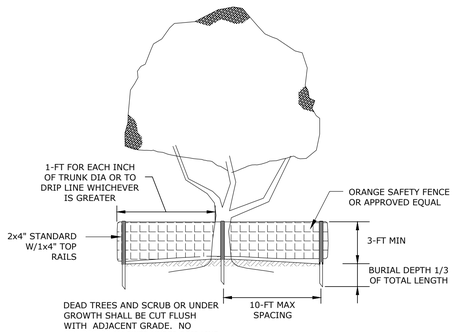
NOT TO SCALE



PLAN

VEGETATED BUFFER FOR BOULEVARD

NOT TO SCALE

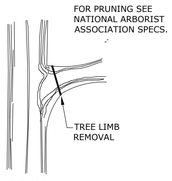


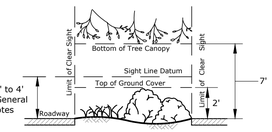
TREE PROTECTION DETAIL

N.T.S.

TREE PROTECTION NOTES:

1. TREE PROTECTION FENCE SHALL BE UTILIZED FOR ALL TREES NOT IDENTIFIED FOR REMOVAL WITHIN AREAS OF CONSTRUCTION ACTIVITY.
2. TREE PROTECTION SHALL BE INSTALLED PRIOR TO START OF ANY SITE WORK.
3. PLACE STAKES AND RAILS AT OR OUTSIDE OF THE DRIP LINE (CANOPY) OF THE TREE(S) TO BE PROTECTED PRIOR TO INITIATING ANY SITE CLEARING OR GRADING ACTIVITY.
4. NO VEHICLES OR MATERIALS SHALL BE PARKED OR PLACED WITHIN THE LIMITS OF THE TREE'S DRIP LINE.
5. NO MECHANICAL CLEARING, GRUBBING OR GRADING WHICH WOULD IMPACT ROOT SYSTEM OF PRESERVED TREE SHALL OCCUR WITHIN THE LIMITS OF THE TREE'S DRIP LINE UNLESS APPROVED BY THE ENGINEER OR TREE ARBORIST.
6. NO TRENCHING SHALL OCCUR WITHIN THE TREE DRIP LINE WITHOUT ENGINEER APPROVAL. ANY APPROVED TRENCHING SHALL BE CONDUCTED BY HAND DIGGING, WITH ROOTS PRUNED USING APPROPRIATE PRUNING TOOLS.
7. REMOVE ALL BARRIERS UPON FINAL ACCEPTANCE OF PROJECT UNLESS APPROVED OTHERWISE BY THE ENGINEER.





The intent of this standard is to provide a window with vertical limits 3' above and 1' below the sight line datum, and the horizontal limits defined by the limits of clear sight.

WINDOW DETAIL

GENERAL NOTES:
-The limits of clear sight define a corridor throughout which a clear sight window must be preserved. See WINDOW DETAIL.
-Clear sight is provided by a sight line originating 3.5' above the pavement at drivers eye level and ending 4' above the pavement at the vehicle observed. -The corridor defined by the limits of clear sight is a restricted planting area. -See Hernando County Landscaping Guidelines for planting types and spacing. -Plants shall never obscure traffic signs or signals.
-If landscaping interferes with the line of sight prescribed by these standards the County Engineer may rearrange, relocate, or eliminate plantings.
-See plans for roadway construction dimensions.
-See FDOT Index No. 17346 for pavement marking information.

NOTE:
FOR ADDITIONAL INFORMATION REGARDING CLEAR SIGHT LIMITS, SEE DETAIL IV-24 OF THE HERNANDO COUNTY FACILITY DESIGN GUIDELINES, OCTOBER 2008 EDITION.

ROADWAY STANDARD INTERSECTION LANDSCAPING

FROM HERNANDO COUNTY DETAIL IV-24
N.T.S.

PRINTED: 02/02/2026 - 9:00am PRINTED BY: DA PATH: L:\24062\VERONA HILLS\dwg\ENGS\Current\24062 - DT.dwg

LANDSCAPE DETAILS

VERONA HILLS

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966 Candlelight Boulevard - Brooksville - Florida 34601
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EB-0000142

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DRAWING INVALID UNLESS SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL

DATE	REV. BY	REV. NO.	REVISION
02/02/26	DG	1	REVISED PER COUNTY COMMENTS

WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
C-86

JOB No.: 24062

TREE PRESERVATION TABLE

POINT #	NORTHING	EASTING	TREE TYPE	D.B.H.	TREE CREDITS
21350	1512104.586	583529.56	OAK	14	14
21351	1512108.236	583525.435	OAK	24	0
21461	1512106.966	583252.439	OAK	42	0
21462	1512108.934	583212.955	OAK	26	0
21463	1512109.901	583210.472	OAK	9	9
21560	1512112.489	582847.095	OAK	30	0
21561	1512111.848	582829.528	OAK	24	0
21562	1512116.676	582830.728	OAK	24	0
21563	1512140.461	582804.791	OAK	36	0
21564	1512227.699	582869.189	OAK	46	0
21565	1512278.835	582806.169	OAK	44	0
21575	1512328.251	582806.022	OAK	18	0
21577	1512381.843	582805.737	OAK	22	0
21578	1512379.339	582806.865	OAK	16	16
21579	1512384.814	582805.709	OAK	18	0
21587	1512429.404	582804.942	OAK	36	0
21599	1512637.48	582855.167	OAK	30	0
25005	1513632.325	582810.398	OAK	16	16
25006	1513642.224	582808.287	OAK	36	0
25007	1513683.984	582808.743	OAK	40	0
25008	1513708.964	582806.258	OAK	40	0
25009	1513718.639	582805.832	OAK	18	0
25010	1513724.72	582807.134	OAK	18	0
25011	1513736.097	582810.037	OAK	30	0
25012	1513743.925	582825.177	OAK	8	8
25013	1513752.793	582808.514	OAK	20	0
25014	1513755.008	582811.751	OAK	16	16
25015	1513815.466	582828.193	OAK	18	0
25016	1513819.966	582826.693	OAK	24	0
25017	1513815.656	582808.434	OAK	14	14
25018	1513825.763	582809.859	OAK	44	0
25019	1513840.637	582808.001	OAK	33	0
25020	1513878.369	582806.988	OAK	8	8
25021	1513894.526	582808.096	OAK	6	6
25022	1513930.451	582807.696	OAK	14	14
25023	1513938.951	582807.696	OAK	14	14
25024	1513960.096	582807.416	OAK	14	14
25025	1513954.878	582806.714	OAK	8	8
25026	1513960.967	582809.689	OAK	6	6
25027	1513969.201	582809.563	OAK	14	14
25032	1513582.33	583032.447	OAK	30	0
25033	1513599.543	583093.148	OAK	24	0
25034	1513642.14	583095.467	OAK	20	0
25035	1513639.015	583034.812	OAK	20	0
25036	1513658.491	583034.749	OAK	18	0
25037	1513676.919	583066.223	OAK	30	0
25076	1513919.221	583509.302	OAK	36	0
25077	1513933.638	583497.554	OAK	33	0
25119	1512839.611	582826.216	OAK	36	0
25120	1512817.981	582825.199	OAK	32	0
25121	1512797.525	582825.198	OAK	36	0
25122	1512776.316	582854.504	OAK	34	0
25123	1512773.191	582894.206	OAK	22	0
25124	1512631.049	582861.55	OAK	36	0
25125	1512700.304	582859.198	OAK	44	0
25126	1512720.383	582881.214	OAK	40	0
25127	1512699.267	582915.172	OAK	33	0
25128	1512716.575	582949.848	OAK	36	0
25129	1512762.455	582943.978	OAK	36	0
25130	1512759.112	582914.175	OAK	44	0
25131	1512778.338	582971.951	OAK	36	0
25132	1512773.52	582980.908	OAK	33	0
25133	1512879.655	583032.17	OAK	30	0
25134	1512917.372	583031.953	OAK	36	0
25135	1512935.258	582975.732	OAK	18	0
25136	1512919.815	582974.966	OAK	36	0
25137	1512945.692	583004.018	OAK	28	0
25138	1512938.318	583005.639	OAK	28	0
25139	1512979.998	582976.078	OAK	34	0
25140	1512995.689	582919.572	OAK	48	0
25141	1512995.095	582914.92	OAK	30	0
25142	1513016.564	582916.409	OAK	24	0
25143	1513019.395	582857.181	OAK	33	0
25144	1513019.172	582826.825	OAK	33	0
25145	1512979.345	582825.407	OAK	24	0
25146	1512979.94	582827.415	OAK	30	0
25147	1512932.832	582836.146	OAK	36	0
25148	1512953.212	582886.071	OAK	28	0
25149	1512911.246	582883.136	OAK	33	0
25150	1512974.348	583033.87	OAK	30	0
25151	1512983.615	583069.599	OAK	28	0
25+AF4+A1:A	1513024.313	583062.842	OAK	28	0

TREE PRESERVATION TABLE

POINT #	NORTHING	EASTING	TREE TYPE	D.B.H.	TREE CREDITS
25153	1513016.493	583095.56	OAK	36	0
25154	1513037.092	583095.919	OAK	36	0
25156	1513081.273	582888.419	OAK	18	0
25157	1513139.079	582885.661	OAK	20	0
25158	1513160.027	582913.445	OAK	33	0
25159	1513118.147	582913.388	OAK	33	0
25160	1513080.168	582944.318	OAK	28	0
25161	1513058.309	582943.064	OAK	30	0
25162	1513079.31	582973.116	OAK	22	0
25163	1513098.744	582975.616	OAK	30	0
25164	1513121.754	582971.632	OAK	18	0
25165	1513142.959	582970.798	OAK	24	0
25166	1513139.724	583005.372	OAK	36	0
25167	1513136.624	583042.251	OAK	36	0
25168	1513177.741	583004.776	OAK	36	0
25169	1513160.683	582998.486	OAK	18	0
25170	1513115.137	583025.421	OAK	18	0
25171	1513056.606	583035.163	OAK	36	0
25172	1513100.935	583068.341	OAK	48	0
25173	1513097.38	583095.615	OAK	36	0
25174	1513205.331	583096.634	OAK	36	0
25175	1513221.973	583101.131	OAK	36	0
25176	1513220.502	583122.714	OAK	48	0
25177	1513179.952	583120.725	OAK	52	0
25178	1513199.798	583069.056	OAK	18	0
25179	1513232.475	583038.318	OAK	28	0
25180	1513319.852	583007.569	OAK	54	0
25181	1513321.946	582971.124	OAK	18	0
25182	1513340.656	583036.992	OAK	33	0
25183	1513320.464	583067.957	OAK	48	0
25184	1513419.951	583067.219	OAK	48	0
25185	1513460.195	583035.322	OAK	36	0
25186	1513433.752	583002.556	OAK	18	0
25187	1513496.16	583063.406	OAK	30	0
25188	1513535.089	583064.964	OAK	33	0
25189	1513553.55	583095.152	OAK	33	0
25190	1513555.987	583039.607	OAK	40	0
25191	1513547.877	582999.374	OAK	36	0
25192	1513569.506	583005.28	OAK	30	0
25193	1513568.559	583009.473	OAK	18	0
25194	1513537.624	583005.61	OAK	18	0
25195	1513575.992	582891.594	OAK	60	0
25196	1513514.223	582860.185	OAK	34	0
25197	1513490.27	582808.637	OAK	18	0
25198	1513482.421	582807.451	OAK	28	0
25199	1513456.589	582806.194	OAK	18	0
25200	1513445.357	582807.587	OAK	24	0
25201	1513459.093	582826.492	OAK	24	0
25202	1513438.158	582827.777	OAK	36	0
25203	1513484.289	582879.604	OAK	18	0
25204	1513489.062	582851.635	OAK	30	0
25205	1513477.736	582850.445	OAK	36	0
25206	1513496.966	582943.779	OAK	40	0
25207	1513415.261	582948.624	OAK	18	0
25208	1513438.011	582946.229	OAK	24	0
25209	1513460.209	582949.873	OAK	24	0
25210	1513459.155	582947.198	OAK	33	0
25211	1513396.363	583006.957	OAK	18	0
25212	1513361.384	582949.892	OAK	20	0
25213	1513320.003	582886.43	OAK	36	0
25214	1513355.054	582896.2	OAK	33	0
25215	1513354.402	582892.352	OAK	30	0
25216	1513365.227	582864.034	OAK	20	0
25217	1513335.36	582829.993	OAK	30	0
25218	1513314.697	582828.691	OAK	36	0
25219	1513280.095	582826.043	OAK	24	0
25220	1513297.093	582919.754	OAK	22	0
25221	1513274.521	582888.915	OAK	28	0
25222	1513293.237	582883.192	OAK	36	0
25223	1513318.548	582947.518	OAK	24	0
25224	1513297.976	582950.158	OAK	30	0
25225	1513234.031	582918.403	OAK	28	0
25226	1513213.286	582911.26	OAK	30	0
25227	1513197.668	582886.067	OAK	24	0
25228	1513194.579	582858.344	OAK	33	0
25229	1513176.228	582851.855	OAK	24	0
25230	1513176.872	582848.555	OAK	28	0
25231	1513239.127	582859.55	OAK	33	0
25731	1513684.788	585381.576	OAK	60	0
25732	1513642.705	585392.401	OAK	20	0
25757	1513719.558	584917.473	OAK	12	12
					0
			TOTAL		189

TREE REMOVAL TABLE

POINT #	NORTHING	EASTING	TREE TYPE	D.B.H.	MITIGATION D.B.H.	JUSTIFICATION FOR REMOVAL
20500	1513034.605	584510.117	OAK	64	64	PREVENTS REASONABLE USE OF SITE, GRADING
20507	1513003.042	584429.718	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING
20508	1513023.762	584411.629	OAK	20	20	PREVENTS REASONABLE USE OF SITE, GRADING
20509	1513011.879	584407.987	OAK	23	23	PREVENTS REASONABLE USE OF SITE, GRADING
20510	1513003.889	584407.022	OAK	21	21	PREVENTS REASONABLE USE OF SITE, GRADING
20511	1513008.933	584392.824	OAK	18	18	PREVENTS REASONABLE USE OF SITE, GRADING
20512	1513003.334	584388.762	OAK	23	23	PREVENTS REASONABLE USE OF SITE, GRADING
20872	1512247.318	584776.66	OAK	42	42	PREVENTS REASONABLE USE OF SITE, GRADING
20873	1512253.614	584779.14	OAK	18	18	PREVENTS REASONABLE USE OF SITE, GRADING
20874	1512254.404	584782.816	OAK	24	24	PREVENTS REASONABLE USE OF SITE, GRADING
21102	1512261.067	584237.656	OAK	63	63	PREVENTS REASONABLE USE OF SITE, GRADING
21464	1512105.142	583168.864	OAK	24	24	PREVENTS REASONABLE USE OF SITE, GRADING
21465	1512103.459	583157.376	OAK	11	0	PREVENTS REASONABLE USE OF SITE, GRADING
21466	1512108.352	583139.594	OAK	26	26	PREVENTS REASONABLE USE OF SITE, GRADING
21467	1512110.649	583123.246	OAK	17	0	PREVENTS REASONABLE USE OF SITE, GRADING
22167	1513435.524	583128.209	OAK	48	48	PREVENTS REASONABLE USE OF SITE, GRADING
22195	1513481.654	583213.742	OAK	38	38	PREVENTS REASONABLE USE OF SITE, GRADING
22196	1513532.44	583201.151	OAK	24	24	PREVENTS REASONABLE USE OF SITE, GRADING
22197	1513540.976	583212.306	OAK	22	22	PREVENTS REASONABLE USE OF SITE, GRADING
22198	1513555.48	583211.292	OAK	22	22	PREVENTS REASONABLE USE OF SITE, GRADING
22199	1513562.777	583205.726	OAK	18	18	PREVENTS REASONABLE USE OF SITE, GRADING
22200	1513561.572	583195.918	OAK	18	18	PREVENTS REASONABLE USE OF SITE, GRADING
22201	1513552.125	583191.079	OAK	24	24	PREVENTS REASONABLE USE OF SITE, GRADING
22202	1513541.695	583177.302	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING
22203	1513562.32	583167.142	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING
22204	1513579.961	583124.151	OAK	36	36	PREVENTS REASONABLE USE OF SITE, GRADING
22205	1513636.641	583128.632	OAK	38	38	PREVENTS REASONABLE USE OF SITE, GRADING
22206	1513671.691	583170.05	OAK	40	40	PREVENTS REASONABLE USE OF SITE, GRADING
22207	1513672.41	583171.673	OAK	24	24	PREVENTS REASONABLE USE OF SITE, GRADING
22208	1513619.061	583262.48	OAK	36	36	PREVENTS REASONABLE USE OF SITE, GRADING
22209	1513625.756	583273.623	OAK	36	36	PREVENTS REASONABLE USE OF SITE, GRADING
22210	1513639.548	583306.261	OAK	36	36	PREVENTS REASONABLE USE OF SITE, GRADING
22211	1513669.063	583301.331	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING
22212	1513666.847	583296.261	OAK	18	18	PREVENTS REASONABLE USE OF SITE, GRADING
22213	1513645.687	583275.511	OAK	24	24	PREVENTS REASONABLE USE OF SITE, GRADING
22214	1513537.915	583331.103	OAK	52	52	PREVENTS REASONABLE USE OF SITE, GRADING
22215	1513506.393	583346.918	OAK	34	34	PREVENTS REASONABLE USE OF SITE, GRADING
22216	1513536.474	583349.553	OAK	24	24	PREVENTS REASONABLE USE OF SITE, GRADING
25028	1513839.139	583033.951	OAK	24	24	PREVENTS REASONABLE USE OF SITE, GRADING
25029	1513780.059	583062.739	OAK	18	18	PREVENTS REASONABLE USE OF SITE, GRADING
25030	1513751.663	583034.897	OAK	40	40	PREVENTS REASONABLE USE OF SITE, GRADING
25031	1513758.151	583007.732	OAK	18	18	PREVENTS REASONABLE USE OF SITE, GRADING
25038	1513704.098	583063.571	OAK	33	33	PREVENTS REASONABLE USE OF SITE, GRADING
25039	1513699.012	583093.73	OAK	33	33	PREVENTS REASONABLE USE OF SITE, GRADING
25040	1513856.804	583205.444	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25041	1513863.77	583214.046	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25042	1513861.121	583218.286	OAK	33	33	PREVENTS REASONABLE USE OF SITE, GRADING
25043	1513878.772	583214.464	OAK	36	36	PREVENTS REASONABLE USE OF SITE, GRADING
25044	1513893.796	583209.081	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25045	1513895.137	583232.888	OAK	32	32	PREVENTS REASONABLE USE OF SITE, GRADING
25046	1513901.021	583237.054	OAK	32	32	PREVENTS REASONABLE USE OF SITE, GRADING
25047	1513908.823	583235.859	OAK	36	36	PREVENTS REASONABLE USE OF SITE, GRADING
25048	1513931.83	583179.052	OAK	18	18	PREVENTS REASONABLE USE OF SITE, GRADING
25049	1513942.322	583184.93	OAK	20	20	PREVENTS REASONABLE USE OF SITE, GRADING
25050	1513897.068	583170.228	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25051	1513904.438	583167.247	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25052	1513916.596	583171.205	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING
25053	1513924.35	583168.034	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING
25054	1513938.571	583220.096	OAK	48	48	PREVENTS REASONABLE USE OF SITE, GRADING
25055	1513941.057	583288.321	OAK	18	18	PREVENTS REASONABLE USE OF SITE, GRADING
25056	1513942.613	583282.902	OAK	24	24	PREVENTS REASONABLE USE OF SITE, GRADING
25057	1513938.196	583296.191	OAK	48	48	PREVENTS REASONABLE USE OF SITE, GRADING

Sub-Total 1809

TREE REMOVAL TABLE

POINT #	NORTHING	EASTING		D.B.H.	MITIGATION D.B.H.	JUSTIFICATION FOR REMOVAL
25058	1513868.434	583297.877	OAK	22	22	PREVENTS REASONABLE USE OF SITE, GRADING
25059	1513887.997	583321.718	OAK	48	48	PREVENTS REASONABLE USE OF SITE, GRADING
25060	1513723.496	583229.015	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING
25061	1513743.119	583158.224	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING
25062	1513759.196	583173.057	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING
25063	1513763.591	583176.431	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25064	1513793.369	583155.842	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25065	1513739.087	583341.862	OAK	36	36	PREVENTS REASONABLE USE OF SITE, GRADING
25066	1513742.621	583341.52	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING
25067	1513788.274	583363.527	OAK	36	36	PREVENTS REASONABLE USE OF SITE, GRADING
25068	1513773.657	583414.962	OAK	26	26	PREVENTS REASONABLE USE OF SITE, GRADING
25069	1513759.832	583412.772	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25070	1513825.897	583469.665	OAK	52	52	PREVENTS REASONABLE USE OF SITE, GRADING
25071	1513806.895	583465.068	OAK	36	36	PREVENTS REASONABLE USE OF SITE, GRADING
25072	1513841.222	583436.037	OAK	48	48	PREVENTS REASONABLE USE OF SITE, GRADING
25073	1513882.128	583442.853	OAK	18	18	PREVENTS REASONABLE USE OF SITE, GRADING
25082	1514016.946	583424.547	OAK	36	36	PREVENTS REASONABLE USE OF SITE, GRADING
25083	1513941.809	583435.752	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25084	1513942.056	583450.673	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25085	1513946.14	583393.39	OAK	18	18	PREVENTS REASONABLE USE OF SITE, GRADING
25086	1513949.986	583417.424	OAK	22	22	PREVENTS REASONABLE USE OF SITE, GRADING
25087	1513614.171	583434.877	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING
25088	1513599.392	583419.284	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING
25089	1513645.958	583410.375	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING
25090	1513676.593	583394.912	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING
25091	1513693.318	583393.519	OAK	36	36	PREVENTS REASONABLE USE OF SITE, GRADING
25092	1513704.415	583390.066	OAK	33	33	PREVENTS REASONABLE USE OF SITE, GRADING
25093	1513731.768	583427.981	OAK	20	20	PREVENTS REASONABLE USE OF SITE, GRADING
25094	1513746.285	583418.372	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING
25095	1513756.375	583435.759	OAK	40	40	PREVENTS REASONABLE USE OF SITE, GRADING
25096	1513766.242	583523.795	OAK	48	48	PREVENTS REASONABLE USE OF SITE, GRADING
25097	1513749.857	583511.814	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25098	1513705.349	583476.54	OAK	33	33	PREVENTS REASONABLE USE OF SITE, GRADING
25099	1513699.685	583458.953	OAK	33	33	PREVENTS REASONABLE USE OF SITE, GRADING
25100	1513685.296	583466.832	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25101	1513695.902	583473.409	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25102	1513653.41	583466.864	OAK	18	18	PREVENTS REASONABLE USE OF SITE, GRADING
25103	1513659.113	583463.383	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25104	1513654.201	583474.939	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25105	1513650.302	583502.665	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25106	1513664.567	583484.188	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25107	1513648.409	583502.806	OAK	20	20	PREVENTS REASONABLE USE OF SITE, GRADING
25108	1513659.25	583497.27	OAK	20	20	PREVENTS REASONABLE USE OF SITE, GRADING
25109	1513625.548	583509.863	OAK	33	33	PREVENTS REASONABLE USE OF SITE, GRADING
25110	1513672.744	583492.345	OAK	33	33	PREVENTS REASONABLE USE OF SITE, GRADING
25111	1513659.478	583504.283	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING
25112	1513654.819	583491.495	OAK	20	20	PREVENTS REASONABLE USE OF SITE, GRADING
25113	1513539.394	583387.106	OAK	18	18	PREVENTS REASONABLE USE OF SITE, GRADING
25114	1513515.421	583383.254	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25115	1513451.366	583420.94	OAK	36	36	PREVENTS REASONABLE USE OF SITE, GRADING
25116	1513458.912	583466.84	OAK	36	36	PREVENTS REASONABLE USE OF SITE, GRADING
25117	1513538.55	583602.003	OAK	36	36	PREVENTS REASONABLE USE OF SITE, GRADING
25118	1513215.614	583214.87	CHINA	33	0	NOT REGULATED
25155	1512961.224	583164.716	OAK	28	28	PREVENTS REASONABLE USE OF SITE, GRADING
25413	1513353.39	584948.443	OAK	36	36	PREVENTS REASONABLE USE OF SITE, GRADING
25690	1513823.94	583869.532	OAK	20	20	PREVENTS REASONABLE USE OF SITE, GRADING
25729	1513620.559	585322.273	OAK	96	96	PREVENTS REASONABLE USE OF SITE, GRADING
25730	1513651.117	585344.96	OAK	48	48	PREVENTS REASONABLE USE OF SITE, GRADING
25780	1513443.158	585239.279	OAK	48	48	PREVENTS REASONABLE USE OF SITE, GRADING
25799	1513512.964	585327.829	OAK	40	40	PREVENTS REASONABLE USE OF SITE, GRADING
25837	1513569.832	585291.706	OAK	30	30	PREVENTS REASONABLE USE OF SITE, GRADING

Sub-Total 1921
TOTAL 3730

TOTAL TREE MITIGATION REQUIRED: 3,730

TREE CREDIT FROM PRESERVATION	189
TREE CREDIT FROM LOTS	
302 UNITS X 2 TREES X 3 INCHES)	1812
252 STREET & BUFFER TREES	756
TOTAL	2,757 INCHES

TREE MITIGATION TABLES

VERONA HILLS

BRIAN W. MALMBERG
LICENSE NUMBER
No. 59405
STATE OF FLORIDA
PROFESSIONAL ENGINEER
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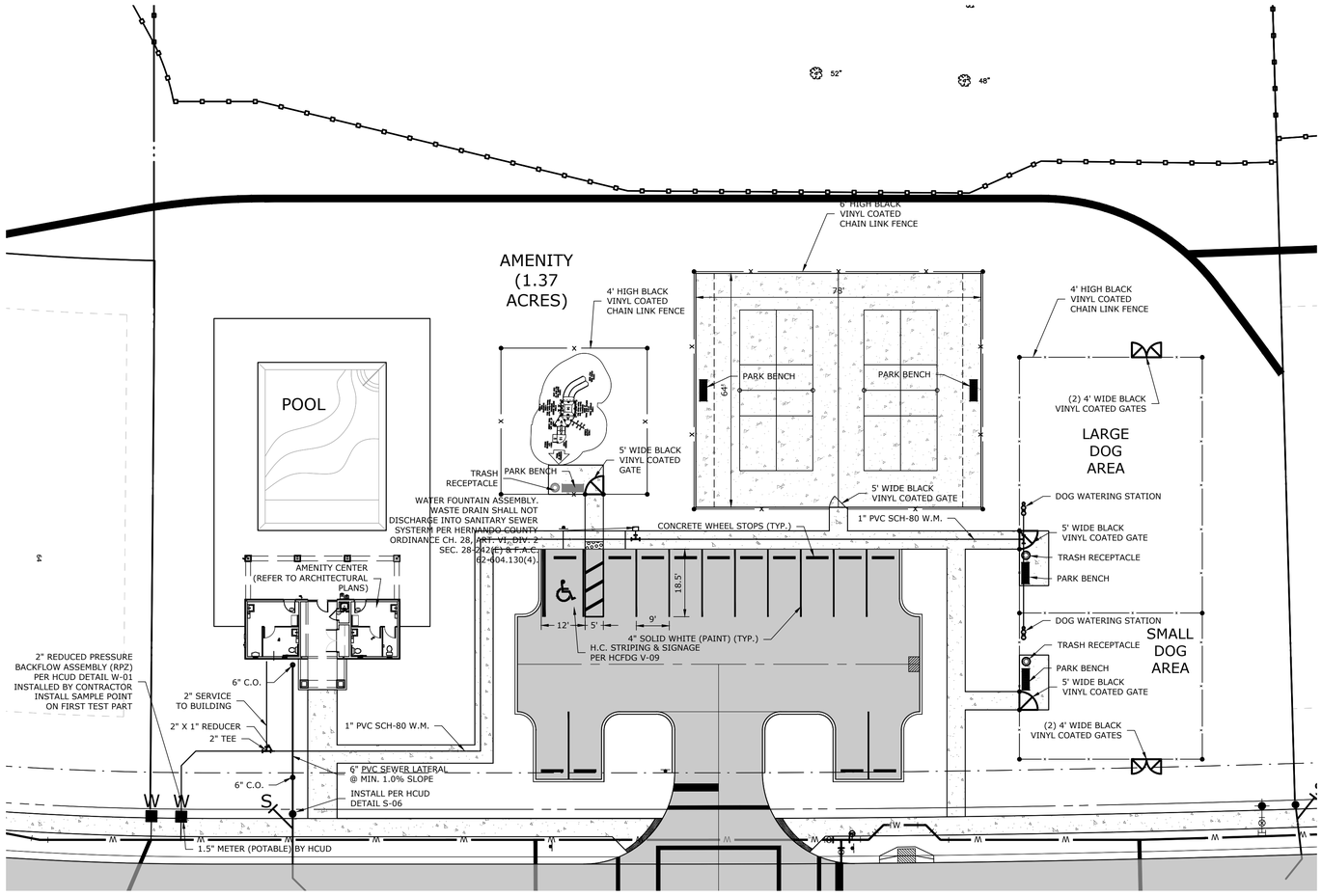
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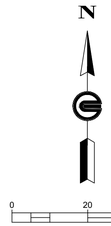
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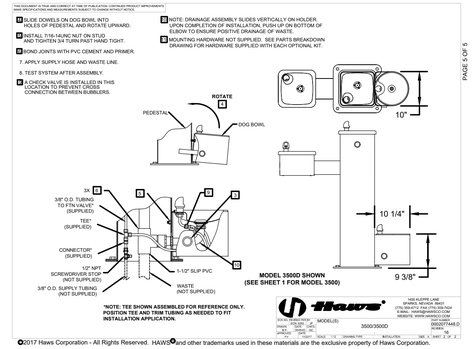
SHEET
C-87

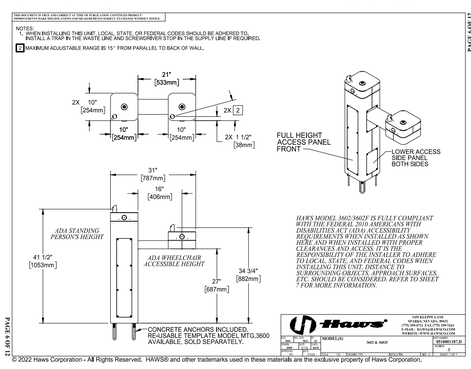
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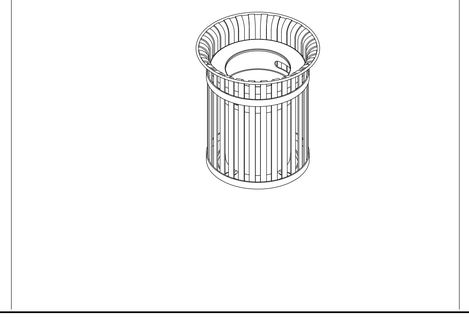
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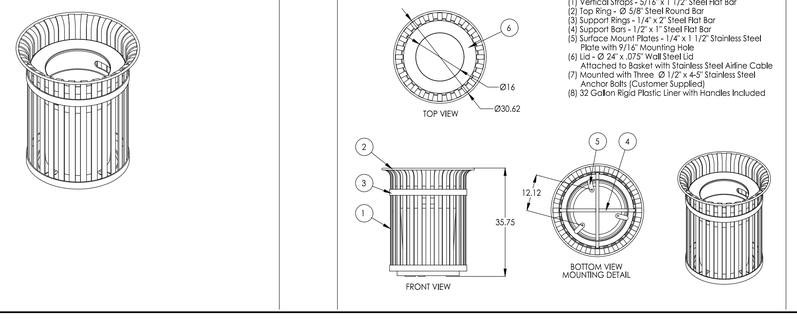


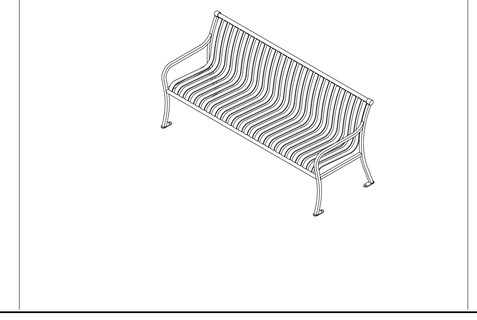


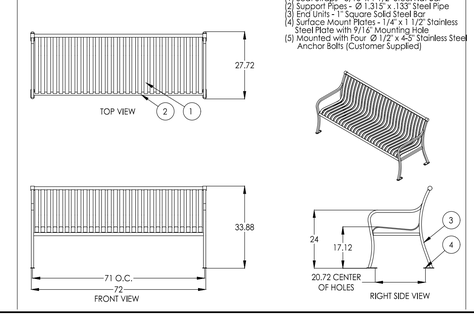












NEIGHBORHOOD PARK PLAN

VERONA HILLS

RICHARD M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

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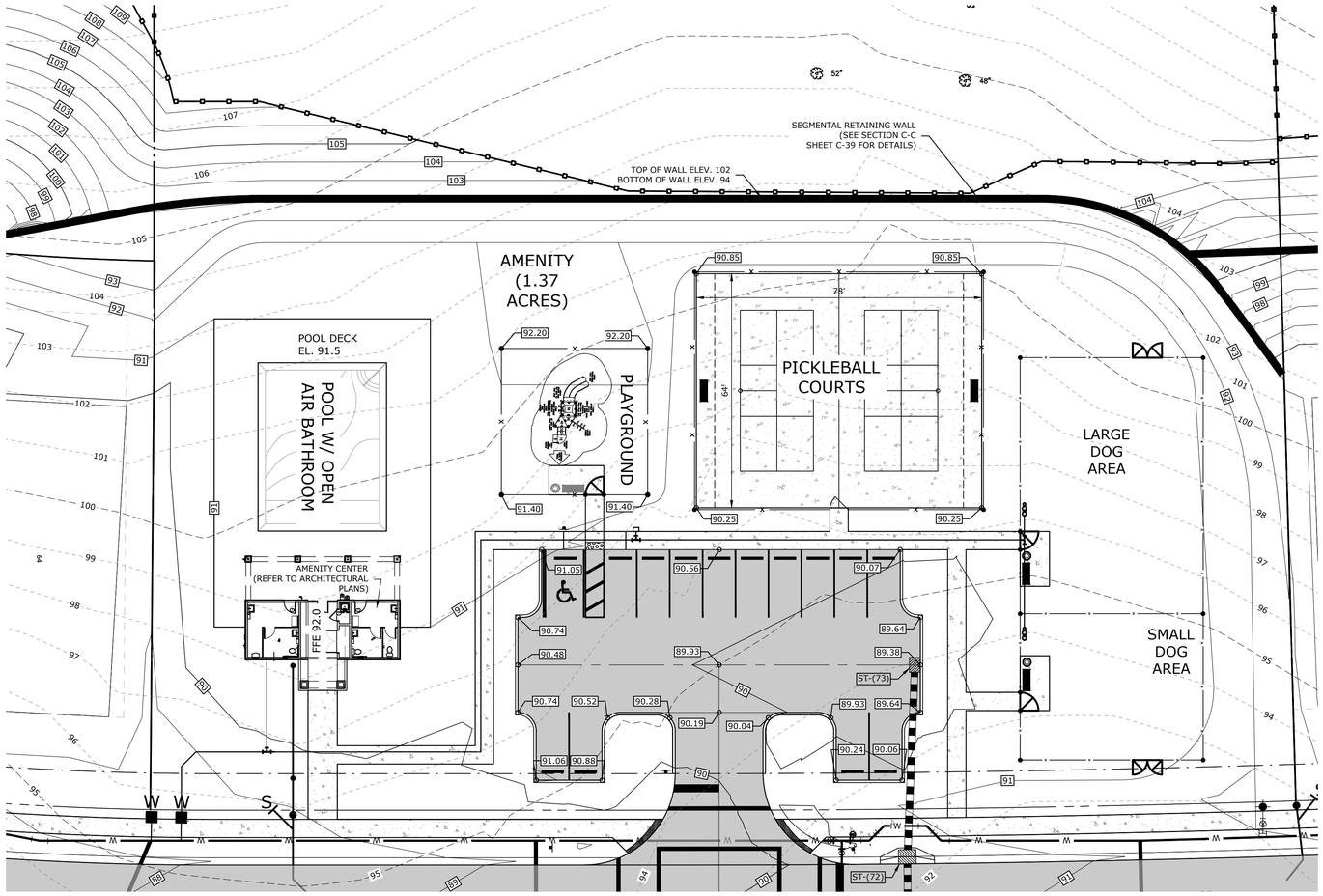
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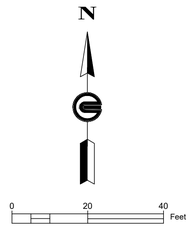
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LEGEND

ST-22	STORM STRUCTURE NUMBER
	STORM PIPE
	EXISTING STORM PIPE
	SILT FENCE
28	EXISTING CONTOUR LINE
28	PROPOSED CONTOUR LINE
	FLOW ARROW
71.75	PROPOSED SPOT GRADE
X 29.74	EXISTING SPOT GRADE

NOTES

1. EXISTING CONTOURS AND ELEVATIONS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF NAVD 1988.
2. REFER TO SHEET C-03 FOR BENCHMARK DATA.
3. FUGITIVE DUST SHALL BE CONTROLLED ON SITE. ONLY AREAS SCHEDULED FOR IMMEDIATE CONSTRUCTION SHALL BE CLEARED OR STRIPPED OF VEGETATION. WATERING APPLICATION OF APS 605 SILT STOP OR OTHER PRIOR APPROVED MEANS OF DUST CONTROL SHALL BE EMPLOYED TO PREVENT THE EMANATION OF DUST FROM THE SITE. PERMANENT GRASSING, LANDSCAPING AND OTHER SITE WORK SHALL BE INITIATED AS SOON AS POSSIBLE.
4. THE CONTRACTOR IS ADVISED THAT ALL LOTS SHALL BE GRADED TO THE FOLLOWING BASED ON FINISHED FLOOR AND TYPICAL LOT GRADING SCENARIOS SHOWN ON SHEET C-75
5. PAD TERRACE GRADE SHALL BE 0.7' LOWER THAN FINISHED FLOOR ELEVATION.
6. BUILDING PAD AREA REQUIRING MORE THAN TWO (2) FEET OF FILL SHALL BE COMPACTED IN 6" LIFTS TO A MINIMUM DENSITY OF 95% (MAXIMUM PROCTOR DRY DENSITY ASTM-1557). THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER TESTING RESULTS BEFORE CONSTRUCTION IS COMPLETE.
7. LOT GRADING SHALL CONSIST OF NATIVE MATERIAL FREE FROM DEBRIS AND YIELDING CLAYS. EACH LOT SHALL BE TESTED FOR COMPLIANCE WITH PROJECT EARTHWORK SPECIFICATIONS. FINAL LOT GRADING DETAILS AND COMPACTION STANDARDS SHALL BE THE RESPONSIBILITY OF THE BUILDING CONTRACTOR BASED ON FINAL BUILDING PRODUCT SPECIFIED BY CLIENT.
8. ALL SLOPES GRADED AT 4H : 1V OR LESS SHALL BE SODDED.
9. ALL DISTURBED AREAS SHALL BE SEED AND MULCHED OR SODDED. A MINIMUM OF 80% VEGETATIVE GROWTH SHALL BE REQUIRED FOR ACCEPTANCE. CONTRACTORS TO WATER AND FERTILIZE AS REQUIRED TO PROMOTE 80% VEGETATIVE GROWTH.

NEIGHBORHOOD PARK GRADING PLAN

VERONA HILLS

BRIAN M. MALMBERG
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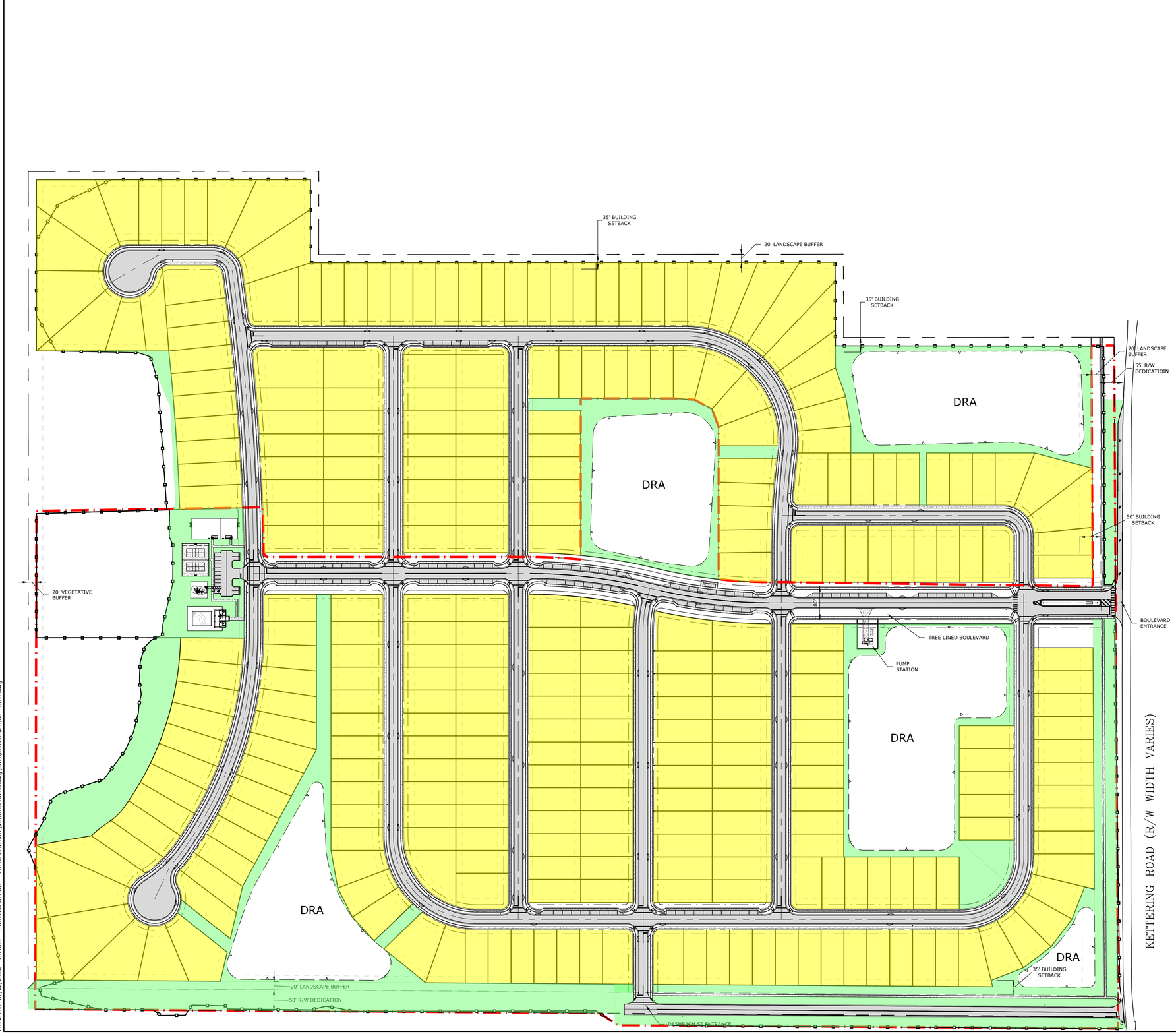
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N

0 120 240 Feet

LEGEND

PHASE LINE

ASPHALT ROAD

AREAS TO BE SODDED (BAHIA). R/W'S TO BE SEEDED PER CROSS SECTION DETAILS

SEED & MULCH

LANDSCAPE & MULCH AREAS

SILT FENCE

NOTE:
DISTURBED AREAS TO BE SODDED OR SEED & MULCHED PER PLAN. GRASS TO BE 80% GROWTH PRIOR TO ACCEPTANCE. CONTRACTOR TO WATER AND FERTILIZE AS REQUIRED TO ACHIEVE 80% GROWTH.

VEGETATION STABILIZATION PLAN

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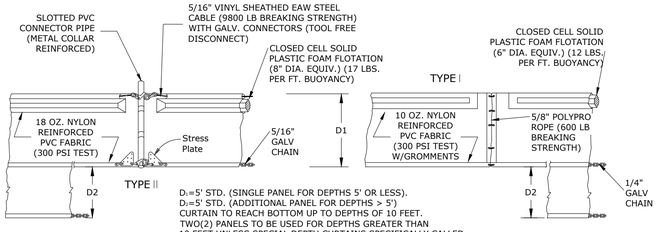
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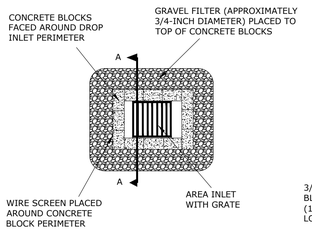


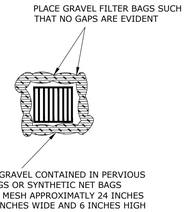
D_1=5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).
D_1=5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5') CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

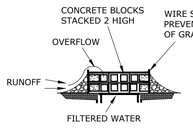
NOTICE: COMPONENTS OF TYPED I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT OF THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.

FLOATING TURBIDITY BARRIERS

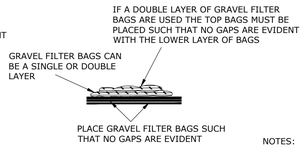
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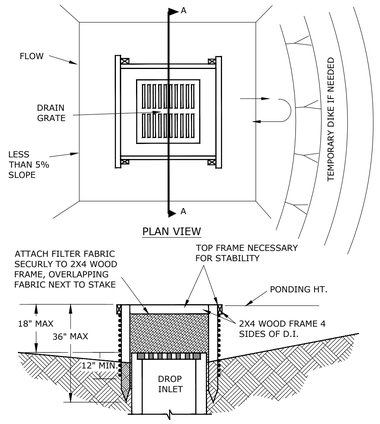
CROSS-SECTION AA



SIDE VIEW

CONCRETE BLOCK FILTER

GRAVEL FILTER BAGS

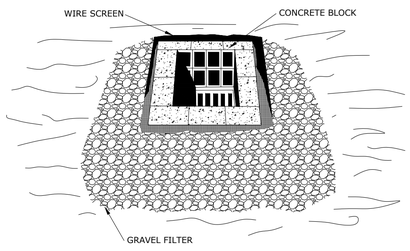


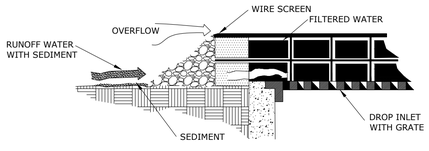
CROSS-SECTION AA

NOTES:
1. DROP INLET SEDIMENT BARRIERS ARE TO BE USED FOR SMALL, NEARLY LEVEL DRAINAGE AREAS. (LESS THAN 5%). THIS METHOD SHALL NOT APPLY TO INLETS RECEIVING CONCENTRATED FLOWS, SUCH AS IN STREET OR HIGHWAY OR MEDIANS.
2. USE 2X4 WOOD OR EQUIVALENT METAL STAKES, (3 FT. MIN LENGTH)
3. INSTALL 2X4 WOOD TOP FRAME TO INSURE STABILITY.
4. THE TOP OF THE FRAME (PONDING HEIGHT) MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE TO PREVENT RUNOFF FROM BY-PASSING THE INLET. A TEMPORARY DIKE MAY BE NECESSARY ON THE DOWNSLOPE SIDE OF THE STRUCTURE.

SILT FENCE DROP INLET SEDIMENT BARRIER

NOTE: GRAVEL FILTERS MAY BE USED ON PAVEMENT OR BARE GROUND.





SPECIFIC APPLICATION

BLOCK AND GRAVEL DROP INLET SEDIMENT FILTER

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, AND WHERE AN OVERFLOW CAPACITY NECESSARY TO PREVENT EXCESSIVE PONDING AROUND THE STRUCTURE.

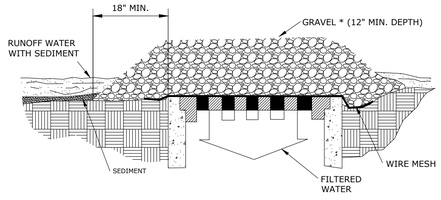
* GRAVEL SHALL BE FODT #3, #357, OR #5 COARSE AGGREGATE.

1. PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET, WITH THE END OF ADJACENT BLOCKS ABUTTING. THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS, BY STACKING COMBINATION OF 4.8, AND 12 INCH WIDE (10,20, AND 30 CM) BLOCKS. THE BARRIER OF BLOCKS SHALL BE AT LEAST 12 INCHES (30 CM) HIGH AND NO GREATER THAN 24 INCHES (60 CM) HIGH.

2. WIRE MESH SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE CONCRETE BLOCKS TO PREVENT STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS. HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH (13 MM) OPENINGS SHALL BE USED.

3. STONE SHALL BE PILED AGAINST THE WIRE TO THE TOP OF THE BLOCK BARRIER. SUITABLE COARSE AGGREGATE SHALL BE USED.

4. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT SO THAT IT NO LONGER ADEQUATELY PERFORMS ITS FUNCTION, THE STONE MUST BE PULLED AWAY FROM THE BLOCKS, CLEANED AND REPLACED.

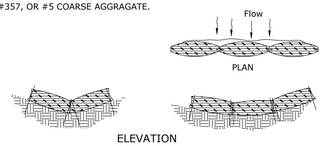


SPECIFIC APPLICATION

GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

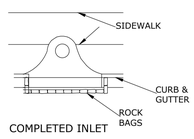
THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATED FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE INCONVIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.

* GRAVEL SHALL BE FODT #3, #357, OR #5 COARSE AGGRAGATE.



BARRIERS FOR SWALES

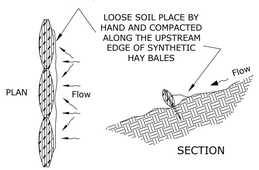
N. T. S.



COMPLETED INLET

BARRIERS FOR INLETS

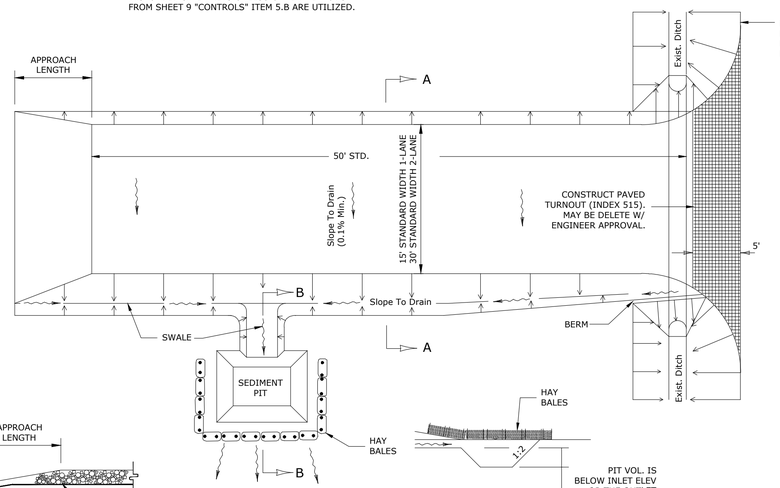
N. T. S.



BARRIERS FOR SLOPES

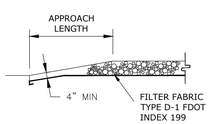
N. T. S.

NOTE:
SOIL TRACKING DEVICE SHALL BE INSTALLED WHERE CONSTRUCTION VEHICLES ENTER PUBLIC ROADS FROM DISTURBED SITE AREAS UNLESS OTHER METHODS FROM SHEET 9 "CONTROLS" ITEM 5.B ARE UTILIZED.

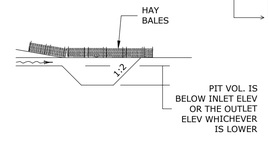


GENERAL NOTES:

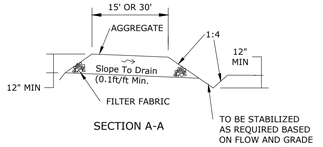
1. PROTECT PROPOSED CURB INLET ON CASE BY CASE DETERMINATION AS NECESSARY TO MINIMIZE DESIMENT ACCUMULATION IN NEW STORM SYSTEMS. WHEN NECESSARY, UTILIZE ROCK BAGS AS PER DETAIL THIS SHEET.
2. PROTECT FUTURE GRATE INLETS WITH HAY BALES (SEE SWPP PLAN SHEET). THESE ARE INLETS PROPOSED IN NON-PAVED AREAS. PROTECT THESE INLETS WITH HAY BALES AS PER DETAIL THIS SHEET.
3. FLOATING TURBIDITY BARRIERS SHALL BE REQUIRED WHEREVER THERE EXISTS THE POTENTIAL FOR POINT DISCHARGE OF SEDIMENT / DEBRIS TO SURFACE WATERS. UNDER CONDITIONS WHERE OTHER MEASURES HAVE BEEN INSTALLED TO PREVENT THIS TYPE OF DISCHARGE, FLOATING BARRIERS MAY BE ELIMINATED. CONSULT WITH THE ENGINEER FOR CASE BY CASE DETERMINATION.
4. SYNTHETIC HAY BALES TO BE SEDIMENT SHIELD (tm), OR EQUIVALENT.
5. SYNTHETIC HAY BALES TO BE INSTALLED PER MANUFACTURES RECOMMENDATIONS.



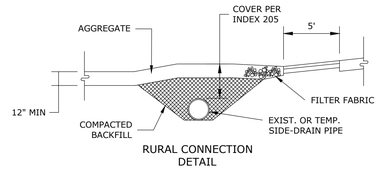
TRANSITION DETAIL



SECTION B-B



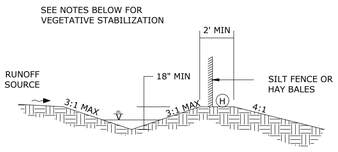
SECTION A-A



RURAL CONNECTION DETAIL

SOIL TRACKING PREVENTION DEVICE

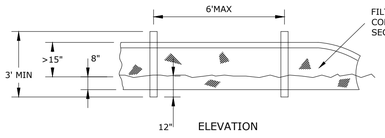
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DIVERSION BERM

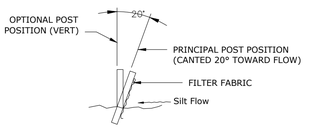
SECTION

N. T. S.

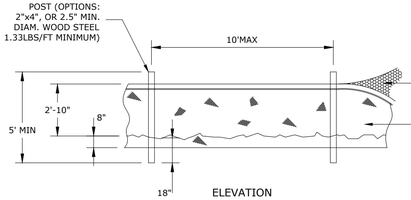


TYPE III SILT FENCE

N. T. S.

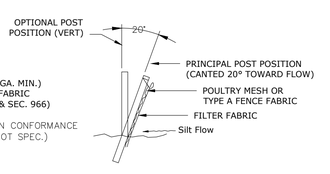


SECTION



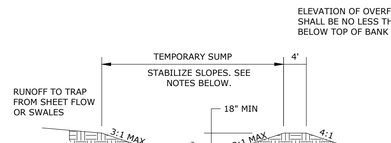
TYPE IV SILT FENCE

N. T. S.



SECTION

NOTES:
1. FOR ADDITIONAL INFORMATION AND DETAILS, SEE F.D.E.P. BMP STANDARDS.
2. UNLESS SPECIFIED, HAY BARRIERS MAY BE USED IN LIEU OF SILT FENCES.
3. ADDITIONAL POSTS AND RAILS MAY BE NECESSARY TO SECURE AND SUPPORT BARRIERS.
4. ADDITIONAL FENCE LENGTHS MAY BE REQUIRED BY THE ENGINEER OR BY REGULATORY AGENCIES.
5. DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATERCOURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS USED AT PERMANENT BODIES OF WATER.



NOTES:
1) WHEN BERMS, SWALES OR TRAPS SHALL REMAIN IN PLACE FOR MORE THAN 30 DAYS, ALL SLOPES SHALL BE STABILIZED WITH SOD OR SEED/MULCH.

2) VEGETATIVE STABILIZATION SHALL NOT BE REQUIRED FOR THE BOTTOM 6" OF SEDIMENT TRAPS.

3) REMOVE SEDIMENT FROM SWALES AND TRAPS WHEN THE DEPTH REACHES 6".

4) ADDITIONAL INFORMATION MAY BE OBTAINED FROM THE FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL, JULY 2008.

SEDIMENT TRAP

SECTION

N. T. S.

SWPP DETAILS

VERONA HILLS

Coastal engineering associates, inc.
Engineering
Planning
Surveying
Environmental
Transportation
Construction Management
966 Candlelight Boulevard - Brooksville - Florida 34601
(352) 796-9404 - Fax (352) 799-0369
EB-0000142

DRAWING INVALID UNLESS SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL ENGINEER
BRIAN LAMBERG P.E. No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER
BRIAN LAMBERG P.E. FL LICENSE NO. 59405

REUSE OF DOCUMENT
THIS DOCUMENT, COMPRISED OF THE INCORPORATED IDEAS AND DESIGNS, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF COASTAL ENGINEERING ASSOCIATES, INC. AND IS PART OF THE USED DATE, FOR THE SPECIFIED PROJECT, AND SHALL NOT BE USED IN WHOLE OR IN PART FOR ANY OTHER PURPOSE WITHOUT THE WRITTEN AUTHORIZATION OF COASTAL ENGINEERING ASSOCIATES, INC.

DATE	REV. BY	REV. NO.	REVISION
02/02/26	DG	1	REVISED PER COUNTY COMMENTS

WHEN PRINTED TO SCALE, DRAWING SIZE SHALL BE 22" X 34"

SHEET
C-91

JOB No.: 24062

PRINTED: 02/02/2026 - 9:00am PRINTED BY: DA PATH: L:\24062\VERONA HILLS\dwg\ENGS\Current\24062 - EC.dwg

REGULATORY REQUIREMENTS FOR CONSTRUCTION PROJECTS INCLUDE:

ENVIRONMENTAL RESOURCE PERMIT (ERP) CONSTRUCTION SURFACE WATER MANAGEMENT PLAN

PURPOSE: PREVENT EROSION AND SEDIMENT DEPOSIT IN WETLANDS/SURFACE WATERS OR ADJACENT PROPERTIES. PREVENT OFFSITE FLOODING. PREVENT VIOLATIONS OF STATE WATER QUALITY STANDARDS.

REGULATORY AGENCY: STATE OF FLORIDA WATER MANAGEMENT DISTRICTS

APPLIES TO: ALL CONSTRUCTION PROJECTS UNLESS SPECIFICALLY EXEMPT BY RULE.

RESPONSIBLE ENTITY: ENVIRONMENTAL RESOURCE PERMITTEE SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE.

REQUIREMENTS: ALL PERMITTED PROJECTS SHALL PREPARE AND MAINTAIN A CONSTRUCTION SURFACE WATER MANAGEMENT PLAN (CSWMP) IN ACCORDANCE WITH F.A.C. 40D RULES, PART B, BASIS OF REVIEW, SECTION 2.8.

MAJOR COMPONENTS OF THE CSWMP

1) SITE PLAN.
2) TOPOGRAPHY AND HYDROLOGIC DATA
3) CONSTRUCTION DETAILS.
4) PROCEDURES TO CONTROL EROSION AND SEDIMENTATION.
5) PROCEDURES FOR STORMWATER MANAGEMENT.
6) MAINTENANCE PROCEDURES.
7) INSPECTION RECORDS.

SEE "THE FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL", APRIL 2006 (OR LATEST EDITION) FOR ADDITIONAL INFORMATION. AND

CHAPTER 6, "THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT".(FDEP 1988)

CONSTRUCTION SURFACE WATER MANAGEMENT RESPONSIBLE ENTITY

NOTE TO CONTRACTOR: A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT IS NOT PART OF THE PERMITTING OBTAINED WITH THIS PLAN SET. THEREFORE, THE CONTRACTOR IS ADVISED THAT AN NPDES CONSTRUCTION PERMIT MAY BE REQUIRED FOR THIS PROJECT AND THAT THE CONTRACTOR IS RESPONSIBLE FOR APPLYING FOR AND ADHERING TO THIS PERMIT. REFER TO SUBSECTION 62-621., F.A.C. FOR ADDITIONAL INFORMATION.

THE INFORMATION PROVIDED IN THE SWPPP NOTES AND DETAILS SHEETS ARE FOR COMPLIANCE WITH ENVIRONMENTAL RESOURCE PERMITTING UNDER CHAPTER 62-333, F.A.C. AND MAY BE USED AS A REFERENCE FOR COMPLIANCE WITH NPDES PERMITTING BUT ARE NOT NECESSARILY INCLUSIVE OF ALL NPDES REQUIREMENTS.

NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES)

PURPOSE: PREVENT THE DISCHARGE OF POLLUTANTS ASSOCIATED WITH CONSTRUCTION ACTIVITIES TO SURFACE WATERS OF THE STATE.

REGULATORY AGENCY: EPA AND STATE OF FLORIDA DEPT. OF ENVIRONMENTAL PROTECTION

APPLIES TO: ALL CONSTRUCTION PROJECTS DISTURBING ONE (1) OR MORE ACRES OF LAND UNLESS SPECIFICALLY EXEMPT BY RULE.

RESPONSIBLE ENTITY: THE "OPERATOR" AS DEFINED IN F.A.C. 62-621.300(4)(a) SHALL BE RESPONSIBLE FOR ENSURING COMPLIANCE. TYPICALLY THE CONTRACTOR SHALL BE OPERATOR AND FILE NPDES NOTICE OF INTENT (NOI).

REQUIREMENTS: ALL NON-EXEMPT PROJECTS SHALL PREPARE AND MAINTAIN A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH F.A.C. 62-621. THE SWPPP SHALL BE COMPLETED PRIOR TO SUBMITTAL OF THE NOI AND MAINTAINED THROUGH THE LENGTH OF PROJECT.

MAJOR COMPONENTS OF THE SWPPP

1) SITE PLAN.
2) TOPOGRAPHY AND HYDROLOGIC DATA
3) CONSTRUCTION DETAILS.
4) PROCEDURES TO CONTROL EROSION AND SEDIMENTATION.
5) MEASURES TO CONTROL OTHER POLLUTANTS.
6) MAINTENANCE PROCEDURES.
7) INSPECTION RECORDS.
8) OPERATOR CERTIFICATION.

SEE "GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES", MAY 2003 (OR LATEST EDITION) FOR ADDITIONAL INFORMATION.

COMPLIANCE WITH NPDES GENERAL PERMIT CONDITIONS FOR CONSTRUCTION SITES SHALL BE THE CONTRACTOR'S RESPONSIBILITY INCLUDING SUBMITTAL OF THE NPDES NOTICES OF INTENT (NOI) AND TERMINATION (NOT) TO FDEP IN ACCORDANCE WITH STATE AND FEDERAL REGULATIONS.

CONTRACTOR IS ADVISED THAT THIS CONSTRUCTION PLAN SET DOES NOT FULFILL ALL REQUIREMENTS OF THE SWPPP. TO ENSURE COMPLIANCE, ADDITIONAL ITEMS TO BE SUPPLIED AND MAINTAINED ON SITE BY THE CONTRACTOR SHALL INCLUDE:

1. Certification Statement.
In accordance with F.A.C. 62-621.305 all documents related to the NPDES Permit, including Contractor's SWPPP, shall contain the following statement "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 gather and evaluate 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 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".

2. Subcontractor's Statement.
In accordance with Document 62-621.300(4)(a), any subcontractors responsible for SWPPP activities shall sign a copy of the following statement "I certify under penalty of law that I understand, and shall comply with, the terms and conditions of the State of Florida Generic Permit for Stormwater Discharge from Large and Small Construction Activities and this Stormwater Pollution Prevention Plan prepared thereunder". Certifications are to include name and title of person providing signature, as well as, name, address and telephone number of the contracting firm, and date certification is made.

3. Records.
Contractor's SWPPP shall contain Records of all inspections and maintenance activities as required by permit. A copy of the NOI shall also be kept with the SWPPP. Records are to be maintained for no less than 3 years after final stabilization of the site.

4. Ammendments
Contractor's SWPPP shall include any modifications to the "Plan" as may be required to address such items as specific construction phasing, changes to controls made in the field, or changes in responsible personnel.

The following documents may be consulted for additional guidance:

WWW.DEP.STATE.FL.US/LEGAL/RULES/SHARED/62-621/62-621.PDF

WWW.DEP.STATE.FL.US/WATER/STORMWATER/NPDES/DOCS/SWPPPTRAINING.PDF

OR FDEP CAN BE CONTACTED AT 1-850-245-7522 FOR ANY NPDES PERMIT REQUIREMENTS.

INFORMATION CONTAINED IN THESE CONSTRUCTION PLANS IS INTENDED TO PROVIDE A STARTING POINT FOR THE CSWM AND SWPP PLANS. IN ORDER TO FULLY COMPLY WITH ALL ASPECTS OF CSWMP AND SWPPP REQUIREMENTS, ADDITIONAL ITEMS SHALL BE PROVIDED BY THE RESPONSIBLE ENTITY TO INCLUDE: INSPECTION RECORDS, UPDATES / MODIFICATIONS, AND CERTIFICATIONS.

REFERENCES MADE TO THE "PLAN" IN THE FOLLOWING NOTES REFERS BOTH TO THE CSWMP AND SWPPP AND SHALL BE INTERCHANGEABLE. THE "PLAN" COMPONENTS PROVIDED BY THE ENGINEER INCLUDE SITE DATA, STORMWATER MANAGEMENT EROSION/SEDIMENT CONTROL INSTRUCTIONS, DETAILS, AND NOTES AS PRESENTED THROUGHOUT THIS CONSTRUCTION PLAN SET.

"PLAN" AMENDMENTS

THE PLAN SHALL BE AMENDED WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR DISCHARGE OF POLLUTANTS TO SURFACE WATERS OF THE STATE OR MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4). THE PLAN ALSO SHALL BE AMENDED IF IT PROVES TO BE INEFFECTIVE OR TO INDICATE ANY NEW CONTRACTOR AND/OR SUBCONTRACTOR IMPLEMENTING CONTROL MEASURES. ALL AMENDMENTS SHALL BE SIGNED, DATED, AND KEPT AS ATTACHMENTS TO THE ORIGINAL PLAN.

SITE DATA

PROJECT NAME: VERONA HILLS
PROJECT DESCRIPTION: SINGLE FAMILY RESIDENTIAL

LOCATION: S 16 T 23S R 21E

PROJECT SIZE: ± 110.25 AC SIZE OF DISTURBED AREA: ± 110.25 AC

SITE MAP: SEE CONSTRUCTION PLANS COVER SHEET
EXISTING TOPOGRAPHY: SEE CONSTRUCTION PLAN SHEET C-03

PROPOSED TOPOGRAPHY: SEE LOT GRADING AND DRAINAGE PLANS

PREDEVELOPMENT DRAINAGE MAP: SEE SHEET C-03 & STORMWATER MANAGEMENT REPORT EXHIBIT

POST-DEVELOPMENT DRAINAGE MAP: SEE STORMWATER MANAGEMENT REPORT

SCS SOIL DATA:

#	NAME	HSG
06	TAVARES	A
14	CANDLER	A
49	ARREDONDO	A

ADDITIONAL DATA INCLUDING GEOTECHNICAL STUDY AND STORMWATER MANAGEMENT REPORT ARE AVAILABLE FROM THE ENGINEER.

RUNOFF COEFFICIENTS:
PREDEVELOPMENT C VALUE = 0.1 UNPAVED
POST-DEVELOPMENT C VALUE = 0.1 UNPAVED
= 0.5 WITHIN PAVED R/W
= 0.6 DEVELOPED LOTS

DISCHARGE POINTS AND RECEIVING WATER OR MS4 (UP TO 100 YR / 24 HR EVENT)
CLOSED BASIN NO OFF-SITE DISCHARGE

FDOT PRECIPITATION ZONE: ZONE 6

WATER MANAGEMENT DISTRICT RAINFALL DATA:
2.3 YR / 24 HR = 4.7 INCHES
5 YR / 24 HR = 5.6 INCHES 10 YR / 24 HR = 7.5 INCHES
25 YR / 24 HR = 8.75 INCHES 100 YR / 24 HR = 12.9 INCHES

CONSTRUCTION ACTIVITIES

1. Sequence of Major Soil Disturbing Activities
For each construction phase clear and grub as necessary for installation of perimeter controls only. Install perimeter controls before beginning other land disturbing activities. Remove perimeter controls only after all upstream areas are stabilized.

A. Clearing, grubbing and earthwork for ponds (unless approved otherwise).
B. Clearing, grubbing and earthwork for swales.
C. Storm sewer construction. Install storm pipe in the upstream direction.
D. Clearing and grubbing for utility installation.
E. Clearing, grubbing and earthwork associated with pavement and buildings.
F. Complete site work.
G. Remove erosion control measures prior to final demobilization.

2. Areas of Soil Disturbing Activities
Any areas where permanent features are shown to be constructed shall be disturbed.

3. Areas to be Stabilized
All areas disturbed during construction shall be stabilized unless specifically shown otherwise.

CONTROLS

The following discussion defines general guidelines for the use of erosion/sediment controls and stabilization.

1. Temporary and permanent stabilization practices.

A. Temporary Sodding:
Install at the limits of phasing in all locations where construction activities have ceased and the likelihood of erosion is high.

B. Temporary Grassing:
Install at all locations where construction activities has temporarily stopped for a period to exceed 14 days.

C. Permanent planting, sodding and seeding:
All disturbed areas not paved will ultimately receive permanent sodding, seed or mulch unless specifically shown otherwise in plans.

2. Structural Controls.
Intended to divert, store, retain or otherwise limit storm water flow. Structural controls shall be installed prior to any earthwork or construction activity.

A. Silt Fence:
Shall be used
- around the perimeter of project area,
- around wetlands or other surface waters,
- where existing ground slopes away from the project,
- or wherever there is potential for sediment to migrate offsite.
Typical useful life of silt fence is 6 months.

Sheet flow areas may require additional silt fence.

NOTE: Additional silt fence may also be required to designate limits of construction, protect trees, or satisfy local development requirements. Stockpile areas shall include silt fence around the perimeter.

B. Synthetic Hay Bales
May be used as temporary sediment barrier. The useful life of synthetic hay bales depends on exposure to ultra-violet light but is typically 3 months.

C. Rock Bags
May be used as temporary measure for inlet protection. Primary use shall be around curb type inlets.

D. Turbidity Barriers
Shall include staked or floating type, as required, wherever there is a point source discharges from project area to surface water. Typical useful life of staked turbidity barriers is 6 months.

3. Sediment Basins for areas disturbing 10 acres or more.
Sumps or traps are required to provide 3,600 cu ft of storage per acre drained. When discharge is to an Outstanding Florida Waterway, Storage must be sufficient to accommodate the 10 year / 24 hour storm.

Requirement for sediment trap may be satisfied by utilizing the project storm water ponds. If so, Ponds shall be cleaned of excess sediment prior to final acceptance.

4. Permanent storm water management controls.
As individual phases of construction are performed, permanent control structures shall be installed.

5. Other Pollutant Controls.

A. Waste Disposal:
The Contractor shall be responsible for maintaining field records of their SWPPP activities including disposal of construction debris and waste.

The Contractor shall provide litter control and collection within the project boundaries during construction activities. Any fertilizer, hydrocarbon, or other chemical containers shall be disposed of by the contractor according to EPA standard practices as detailed by the manufacturer. No solid materials including building and construction debris shall be placed in, or discharged to, wetlands, surface waters or buried on site.

B. Offsite Vehicle Tracking:
Loaded haul trucks shall be covered by a tarpaulin. In addition, the Contractor shall utilize one or more of the following acceptable methods of control:

1. Excess dirt on paved roads shall be removed daily.
2. Soil Tracking Prevention Device may be used where vehicles leave the project area (or enter nearest paved road).
3. Contractor shall provide pollution control by implementing dust control with water application while dust generating activities are conducted.

C. Herbicides / Pesticides:
Application rates shall conform to applicable local, state and federal regulations.

D. Toxic Substances:
Storage, application, generation, migration of all toxic substances shall conform to applicable local, state ad federal regulations. Containment areas shall be provided whenever potentially hazardous materials are stored on site.

E. Stockpiles:
Stockpiling topsoil shall be stockpiled so that natural drainage is not obstructed and no offsite sedimentation occurs. Soil stockpiles should be protected or adequately covered from stormwater during construction. Simple protection measures can include silt fence or a trench aroung the base of the stockpile. A tarp or temporary seeding may also provide adequate cover for a soil stockpile. Stockpiles should not be placed near the permieter of the site, near a waterbody or storm drain inlet, or within 10 feet of an infiltration/exfiltration system. If a stockpile is to remain for an extended period of time adequate long term stabilization and maintenance is required and at a minimum should include silt fence and permanent seeding with regular monitoring and maintenance.

F. Dust Control:
In addition to "Temporary and permanent stabilization practices" described in Item 1 above, during construction/excavation operations periodic watering of exposed soil will be used to control dust. The use of calcium chloride, oils, or other dust control agents is not permitted.

6. Non-stormwater Discharges.
No non-stormwater discharges to surface waters, wetlands or the MS4 shall be allowed except as specifically approved by applicable permits and regulations.

MAINTENANCE

The Contractor shall be responsible for daily inspection and maintenance of all control devices throughout the construction phase and removal of control devices when no longer necessary.

The following practices shall be used to maintain controls.

1. The Contractor shall maintain rain gages on the project site and keep a record of daily rainfall.

2. The Contractor shall check and ensure proper operation of the controls. If a repair is necessary, it shall be initiated within 24 hours of the inspection.

3. Built-up sediment shall be removed when it has reached 1/3 the height of barrier.

4. Any controls which are not functioning as intended shall be repaired or replaced.

5. Sediment sumps, if designed and installed, should have sediment removed as necessary to allow for efficient removal of suspended particles. They should be re-excavated to the design finish grade elevation, if silted in.

Temporary and permanent seeding shall be inspected for bare spots, washouts, and healthy growth. Soil tracking prevention devices shall be maintained to prevent clogging of rock bedding which may impede usefulness of the structure.

NOTE: The PERMITTEE is responsible for ensuring that all controls are properly maintained during and after construction.

INSPECTION AND DOCUMENTATION PROCEDURES

The Contractor shall be responsible for completing weekly inspection report form and maintaining documentation for 3 years following final stabilization. The Contractor shall submit copies of these reports to the owner prior to final payment for work shown within these construction plans. Additional inspection and documentation must be completed within 24 hours after any significant rainfall event.

NOTE: For NPDES, a significant rainfall shall be 0.5 inches or greater. For ERP, a significant rainfall shall be 0.25 inches or greater. To eliminate confusion, Contractor is advised to carryout inspections after rainfall exceeding 0.25 inches.
For projects with minimal potential for discharge to surface waters, it may be possible to adjust this criteria. Contact the Engineer for details.

Where sites have been permanently stabilized, inspections/reports shall be conducted at least once per month until construction activities have ceased and NOT has been submitted.

Minimum inspection requirements shall include:
- Points of discharge to waters of the State.
- Points of discharge to the MS4 (municipal storm sewer).
- Disturbed areas of the site that have not been stabilized.
- Areas used for storage of materials that may create a pollution source (i.e. stockpiles, fuel drums, construction debris) and are exposed to rainfall.
- Structural Controls
- Storm water Management Controls
- Locations where vehicles enter and exit the site.

The Contractor shall initiate repairs / corrections within 24 hours of any items found to be in non-compliance with the associated permit requirements. If inspections indicate that the installed stabilization and structural practices are not sufficient to minimize erosion, retain sediment, and prevent the discharge of pollutants Contractor shall complete corrective measures as needed. Contact the Engineer prior to modifying any structural controls which are specifically shown in the construction plans.

NOTE: Specific conditions of all permits may require additional activities above and beyond those outlined above. Check all permit conditions as issued by regulatory agencies to ensure compliance.

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SWPP NOTES

VERONA HILLS

DRAWING INITIALLY ISSUED, SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL ENGINEER

GREGORY M. MALMBERG LICENSE No. 59405 STATE OF FLORIDA PROFESSIONAL ENGINEER

GREGORY M. MALMBERG, P.E. FL. REGISTRATION NO. 59405

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DRAWING INITIALLY ISSUED, SIGNED, DATED & SEALED BY REGISTERED PROFESSIONAL ENGINEER

DATE	REV. BY	REV. NO.	REVISION
02/02/26	DG	1	REVISED PER COUNTY COMMENTS

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