VOLUSIA
COUNTY SCHOOLS
"LEADING WITH GRACE AND RESPECT"

UNIVERSITY HIGH SCHOOL
EXTEND PARENT LOOP

THE SCHOOL BOARD OF VOLUSIA
COUNTY FLORIDA
200 North Clara Avenue
DeLand, Florida 32720

VCS Project NO. 2548185

1000 RHODE ISLAND AVE., ORANGE CITY, VOLUSIA COUNTY,
FLORIDA 32763

SCHOOL BOARD MEMBERS

RUBEN COLON	BOARD CHAIR
KRISTA GOODRICH	BOARD VICE CHAIR
DONNA BROSEMER	MEMBER
JAMIE HAYNES	MEMBER
JESSICA THOMPSON	MEMBER
CARMEN J. BALGOBIN	SUPERINTENDENT

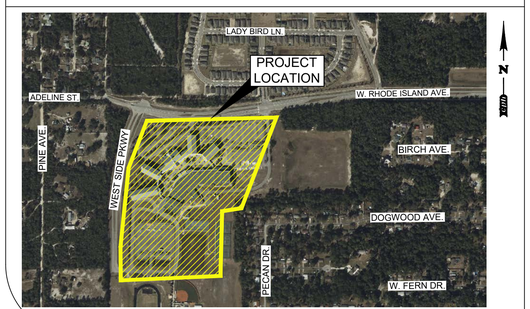
DESCRIPTION OF WORK

PARENT LOOP EXTENSION AND MISCELLANEOUS LIGHTING AND SITE IMPROVEMENTS

Architect's Statement of Compliance
To the best of my knowledge, these drawings and the project manual are complete and comply with the Florida Building Code.

BUILDING DATA

LOCATION MAP



NOT TO SCALE

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CONSTRUCTION DOCUMENTS 02.07.25

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REVISIONS

DOCUMENT HISTORY	
1/6/2026	CONFORMED SET

UNIVERSITY HIGH SCHOOL
EXTEND PARENT LOOP
VCS Project NO. 2548185
1000 RHODE ISLAND AVE., ORANGE CITY
VOLUSIA COUNTY, FLORIDA 32763

ARCHENGR OF RECORD
Engineer
Allen C. Lane, Jr., P.E.

DESIGNED BY	DRAWN BY
BCB	BCB
ISSUE DATE: 02.07.25	AE PROJECT NUMBER: 2501359

SHEET TITLE
COVER SHEET

DRAWING NO.
G001

GENERAL PROJECT DATA

FOR IDENTIFICATION OF CONTRACTUAL AGREEMENTS, THIS SET OF DRAWINGS IS DATED JAN. 15, 2025. ANY REVISIONS THERE AFTER WILL BE DATED AND NOTED ON THE AFFECTED DRAWING(S).

THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE BASED ON TOPOGRAPHIC SURVEY DATED NOV. 26, 2024 PREPARED BY CPH SURVEYING. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR ACCURACY OR THOROUGHNESS OF THIS INFORMATION. PRIOR TO COMMENCING CONSTRUCTION, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITY COMPANIES WHOSE FRANCHISE INCLUDES THIS AREA, AND SCHOOL BOARD MAINTENANCE PERSONNEL, TO LOCATE SUBSURFACE UTILITY LINES AND TO ARRANGE FOR RELOCATION OF THESE UTILITY LINES AS NECESSARY.

THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ALL UTILITIES EXCLUDING VOLUSIA COUNTY POTABLE WATER THAT INTERFERE WITH THE PROPOSED CONSTRUCTION SHALL BE RELOCATED BY THE RESPECTIVE UTILITY COMPANY. THE CONTRACTOR SHALL COORDINATE ANY UTILITY MODIFICATIONS WITH THE PROJECT WORK POTABLE WATER MAIN MODIFICATIONS ARE TO BE COMPLETED BY THE CONTRACTOR AND COORDINATED WITH VOLUSIA COUNTY WATER UTILITIES PRIOR TO COMPLETING THE WORK. ANY DELAY, INCONVENIENCE, OR EXPENSE CAUSED TO THE CONTRACTOR BY THE RELOCATION OF VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT, AND NO EXTRA COMPENSATION WILL BE ALLOWED.

THE FLORIDA STATUTES (F.S.556) REQUIRES THAT AN EXCAVATOR NOTIFY ALL GAS UTILITY COMPANIES A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATING. THE ONLY SAFE AND RELIABLE WAY TO LOCATE EITHER THE MAINS OR SERVICE LINES IS BY ONSITE INSPECTION BY GAS COMPANY PERSONNEL. THEREFORE, EXCAVATORS ARE DIRECTED TO TELEPHONE THE GAS COMPANY TWO (2) WORKING DAYS BEFORE ENTERING A NEW CONSTRUCTION AREA.

> "Florida Law (F.S. 556) Underground Facility Damage Prevention and Safety Act mandates that excavators/contractors shall contact Sunshine 811 (fka: Sunshine State one-Call of Florida) by calling 800-432-4770 or 811 at least 2 full business days prior to beginning any excavation or demolition to allow member operators an opportunity to identify and mark their underground facilities and appropriately response to the Positive Response System."

THE OWNER SHALL HAVE THE RIGHT TO SALVAGE MATERIAL OR EQUIPMENT. ALL MATERIAL OR EQUIPMENT NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE PROMPTLY REMOVED FROM THE SITE.

THE CONTRACTOR SHALL CONFORM WITH ALL INSPECTION REQUIREMENTS OF THE VOLUSIA COUNTY SCHOOL BOARD AND CITY OF ORANGE CITY. FAILURE TO COMPLY WITH INSPECTION REQUIREMENTS SHALL RESULT IN NON-ACCEPTANCE OF SPECIFIC WORK ITEMS.

AS-BUILTS:
AS-BUILTS SHALL BE PROVIDED BY THE CONTRACTOR TO THE ENGINEER TWO WEEKS PRIOR TO FINAL INSPECTION. ALL AS-BUILT DATA SHALL BE PROVIDED BY A FLORIDA LICENSED SURVEYOR, SIGNED, SEALED AND DATED BY THE RESPONSIBLE PARTY.

LAYOUT AND CONTROL:
UNLESS OTHERWISE NOTED ON THE PLANS, THE CONTRACTOR SHALL USE THE GEOMETRY PROVIDED ON THE CONSTRUCTION PLANS. BENCHMARK INFORMATION SHALL BE PROVIDED TO THE CONTRACTOR BY THE OWNER OR OWNER'S SURVEYOR. ANY DISCREPANCIES BETWEEN FIELD MEASUREMENTS AND CONSTRUCTION PLAN INFORMATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

QUALITY CONTROL TESTING REQUIREMENTS:
TESTING REPORTS SHALL BE PROVIDED TO THE OWNER/OPERATOR AND THE ENGINEER. TESTING REQUIREMENTS ARE TO BE IN ACCORDANCE WITH THE OWNER/OPERATOR'S SPECIFICATIONS AND REQUIREMENTS. ALL TEST RESULTS SHALL BE PROVIDED (PASSING AND FAILING) ON A REGULAR AND IMMEDIATE BASIS.

SHOP DRAWINGS:
SHOP DRAWINGS AND CERTIFICATIONS FOR ALL STORM DRAINAGE PIPE AND, STRUCTURES, SPECIALTY SURFACING MATERIALS AND OTHER APPURTENANCES SHALL BE REQUIRED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION.

STORMWATER MANAGEMENT SYSTEM

OWNER/OPERATOR:
THE VOLUSIA COUNTY SCHOOL BOARD WILL OWN, OPERATE AND MAINTAIN THE STORM SYSTEM SHOWN ON THESE PLANS. THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THE REQUIREMENTS OF THE SCHOOL BOARD.

MATERIAL SPECIFICATIONS:
ALL MATERIALS AND CONSTRUCTION METHODS ARE TO BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), SECTION 400 (CONCRETE STRUCTURES) AND THE APPLICABLE FDOT INDEX NUMBER DETAIL AS SHOWN IN FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (LATEST EDITION).

ALL OTHER RELATED ITEMS REQUIRED FOR THE CONSTRUCTION OF THE STORM SYSTEM (OUTFALL PROTECTION, POLLUTION CONTROL, ETC.) ARE TO BE IN ACCORDANCE WITH DETAILS SHOWN ON THE CONSTRUCTION PLANS, FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS AND FDOT STANDARD SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION (LATEST EDITION).

SOAKER SWALE CONSTRUCTION:
SOAKER SWALES SHALL BE EXCAVATED AS SHOWN ON THE CONSTRUCTION PLANS. IN THE EVENT THAT HARDPAN, CLAYEY, OR SILTY MATERIALS ARE ENCOUNTERED IN THE CONSTRUCTION OF THE SWALE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER FOR INSPECTION OF THE MATERIALS. THE CONTRACTOR SHALL SOD THE SOAKER SWALE PER THE CONSTRUCTION PLANS IMMEDIATELY FOLLOWING FINAL GRADING. CONTRACTOR SHALL MAINTAIN THE SOD UNTIL FINAL ACCEPTANCE BY THE OWNER/OPERATOR.

AS-BUILTS:
THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER STORM DRAINAGE AS-BUILTS. AS-BUILTS SHALL INCLUDE, BUT NOT BE LIMITED TO THE STRUCTURE TOP ELEVATIONS, INV. ELEVATIONS, PIPE LENGTH AND RETENTION POND DIMENSIONS, AND ELEVATIONS AT THE TOP OF BANK AND BOTTOM OF SLOPE.

EARTHWORK

THE CONTRACTOR SHALL BASE HIS BID ON HIS OWN ESTIMATE OF EXCAVATION AND BACKFILL QUANTITIES AND IMPLICATION THAT EARTHWORK BALANCES AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY IMPORT FILL NEEDED, OR FOR REMOVAL AND DISPOSAL OF EXCESS MATERIALS.

EROSION CONTROL:
EROSION AND SILTATION CONTROL MEASURES ARE TO BE PROVIDED AND INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THESE MEASURES ARE TO BE INSPECTED BY THE CONTRACTOR ON A REGULAR BASIS AND ARE TO BE MAINTAINED OR REPAIRED ON AN IMMEDIATE BASIS AS REQUIRED. REFER TO THE WATER MANAGEMENT DISTRICT PERMIT FOR ADDITIONAL REQUIREMENTS FOR EROSION CONTROL AND SURFACE DRAINAGE.

LIMITS OF DISTURBANCE:
THE LIMITS OF DISTURBANCE HAVE BEEN PROVIDED TO THE CONTRACTOR ON THE CONSTRUCTION PLANS. UNLESS OTHERWISE DIRECTED BY THE OWNER OR ENGINEER, THE CONTRACTOR IS EXPECTED TO CONTAIN ALL CONSTRUCTION ACTIVITIES WITHIN THESE LIMITS. AT NO TIME SHALL THE CONTRACTOR DISTURB SURROUNDING PROPERTIES OR TRAVEL ON SURROUNDING PROPERTIES WITHOUT WRITTEN CONSENT FROM THE PROPERTY OWNER. ANY REPAIR OR RECONSTRUCTION OF DAMAGED AREAS IN SURROUNDING PROPERTIES SHALL BE REPAIRED BY THE CONTRACTOR IMMEDIATELY. ALL COSTS FOR REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION SHALL BE PROVIDED.

CLEARING AND GRUBBING:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEARING AND GRUBBING FOR SITE CONSTRUCTION INCLUDING CLEARING FOR PAVING, AND DRAINAGE FACILITIES.

MATERIALS STORAGE/DEBRIS REMOVAL:
ALL MATERIALS EXCAVATED SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE STOCKPILED AT ON-SITE LOCATIONS AS SPECIFIED BY THE OWNER. MATERIALS SHALL BE STOCKPILED SEPARATELY AS TO USABLE (NON-ORGANIC) FILL STOCKPILES AND ORGANIC (MUCK) STOCKPILES IF MUCK IS ENCOUNTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL UNSUITABLE FILL MATERIALS FROM THE SITE.

FILL MATERIAL:
ALL FILL MATERIALS SHALL CONTAIN NO MUCK, STUMPS, ROOTS, BRUSH, VEGETATIVE MATTER, RUBBISH OR OTHER MATERIALS THAT WILL NOT COMPACT INTO A SUITABLE AND ENDURING BACKFILL.

COMPACTION:
FILL MATERIALS PLACED UNDER PAVEMENT AND SIDEWALKS SHALL BE COMPACTED TO AT LEAST 98% MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. ALL OTHER FILL AREAS ARE TO BE COMPACTED TO AT LEAST 95% MAXIMUM DENSITY AS SPECIFIED IN AASHTO T-180. FILL MATERIALS SHALL BE PLACED AND COMPACTED IN A MAXIMUM OF 12" LIFTS. THE CONTRACTOR SHALL PROVIDE THE ENGINEER AND OWNER WITH ALL (PASSING AND FAILING) TESTING RESULTS. RESULTS SHALL BE PROVIDED ON A TIMELY AND REGULAR BASIS PRIOR TO CONTRACTOR'S PAY REQUEST SUBMITTAL.

SURFACE DRAINAGE:
THE CONTRACTOR SHALL BE EXPECTED, AT THE END OF EACH DAY, TO HAVE THE SITE GRADED IN SUCH A WAY AS TO NOT CAUSE ANY ADVERSE IMPACT FROM RUNOFF OR SILTATION TO ANY ADJACENT PROPERTIES. SILTATION BARRIERS SHALL BE MAINTAINED AND REPAIRED IF REQUIRED AT THE END OF EACH WORKING DAY.

GRADING SHOWN ON THESE PLANS ARE PROVIDED TO THE CONTRACTOR TO EXPRESS THE GENERAL GRADING INTENT OF THE PROJECT. THE CONTRACTOR SHALL BE EXPECTED TO GRADE THE ENTIRE SITE TO PROVIDE POSITIVE DRAINAGE IN ALL AREAS THROUGHOUT THE SITE. SMOOTH TRANSITIONS SHALL BE PROVIDED BETWEEN CONTOURS OR SPOT ELEVATIONS AS SHOWN ON THE PLANS TO ACCOMPLISH THE GRADING INTENT. ALL SLOPES SHALL BE SODDED IMMEDIATELY AFTER FINAL GRADING HAS BEEN COMPLETED. CONTRACTOR SHALL NOTIFY OWNER AND ENGINEER PRIOR TO DEMOBILIZATION OF GRADING EQUIPMENT TO DETERMINE THAT THE GRADING INTENT HAS BEEN ACHIEVED.

PAVEMENT

THE CONTRACTOR SHALL BASE HIS BID ON HIS OWN ESTIMATE OF PAVEMENT QUANTITIES AND RELATED APPURTENANCES.

OWNER/OPERATOR:
THE ENTITY THAT WILL OWN, OPERATE AND MAINTAIN THE WORK SHOWN ON THESE PLANS IS THE VOLUSIA COUNTY SCHOOL BOARD. THE CONTRACTOR SHALL BE EXPECTED TO MEET ALL THE REQUIREMENTS OF THAT ENTITY.

MATERIAL/CONSTRUCTION SPECIFICATIONS:
MATERIALS AND CONSTRUCTION METHODS FOR THE PAVEMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION).

PAVEMENT SECTION REQUIREMENTS:
SEE TYPICAL PAVEMENT DETAIL ON PLAN SHEET ON C-500.

SIDEWALKS:
SIDEWALKS ARE TO BE CONSTRUCTED IN THE AREAS AS SHOWN ON THE CONSTRUCTION PLANS. THE SIDEWALK SHALL BE CONSTRUCTED OF 4" THICK CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 3000 PSI. JOINTS SHALL BE EITHER TOOLED OR SAWCUT AT EVERY 10' INTERVAL. HANDICAPPED RAMPS SHALL BE PROVIDED AT ALL INTERSECTIONS AND BE IN ACCORDANCE WITH STATE REGULATIONS FOR HANDICAP ACCESSIBILITY.

CURBING:
CURBING SHALL BE CONSTRUCTED WHERE NOTED ON THE CONSTRUCTION PLANS. CONCRETE FOR CURBS SHALL BE FLA. DEPARTMENT OF TRANSPORTATION CLASS "1" CONCRETE WITH A 28-DAY COMPRESSION STRENGTH OF 3000 PSI. ALL CURBS SHALL HAVE SAW CUT CONTRACTION JOINTS AND SHALL BE CONSTRUCTED AT INTERVALS NOT TO EXCEED 10'- 0" ON CENTER. CONSTRUCTION OF CURBS SHALL BE IN CONFORMANCE WITH FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) SECTION 520 AND DETAILS PROVIDED ON THE CONSTRUCTION PLANS.

RESTORATION:
ALL DISTURBED AREAS SHALL BE FINISH GRADED WITH A SMOOTH TRANSITION INTO EXISTING GROUND. ALL SWALES SHALL BE STABILIZED IMMEDIATELY AFTER FINAL GRADING. ALL DISTURBED AREAS SHALL BE STABILIZED (SOD, GRASS & MULCH, ETC.) AFTER FINAL GRADING IN ACCORDANCE WITH THE CONSTRUCTION PLANS PRIOR TO FINAL INSPECTION. ALL GRASSING (SEED OR SOD) SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE BY THE OWNER/OPERATOR.

AS-BUILTS:
THE CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER PAVEMENT AS-BUILTS. AS-BUILTS SHALL CONTAIN AT A MINIMUM, BUT NOT BE LIMITED TO, PAVEMENT WIDTHS, CROSS SLOPES AND DRAINAGE DIRECTIONS WITH HIGH POINTS DELINEATED.

CONSTRUCTION METHODS

TRENCH SAFETY:
THE CONTRACTOR SHALL RECOGNIZE AND ABIDE BY ALL OSHA EXCAVATION SAFETY STANDARDS, INCLUDING THE FLORIDA TRENCH SAFETY ACT (90-96, LAWS OF FLORIDA). ANY MATERIAL, CONSTRUCTION METHODS, OR MATERIAL COST TO COMPLY WITH THESE LAWS SHALL BE INCIDENTAL TO THE CONTRACT.

TRENCH OR EXCAVATION BOTTOM STABILIZATION MATERIAL:

A. SAND
   SAND SHALL BE WELL GRADED, ORGANIC FREE, DURABLE, GRANULAR MATERIAL, AND SHALL PASS A NO. 4 SIEVE. NOT MORE THAN 15 PERCENT SHALL PASS A NO. 200 SIEVE.

B. PIT RUN GRAVEL
   PIT RUN GRAVEL SHALL BE ORGANIC FREE AND SHALL PASS A 3/4-INCH SIEVE.

C. GRANULAR MATERIAL
   GRANULAR MATERIAL SHALL BE WELL GRADED, ORGANIC AND SOIL FREE, DURABLE AGGREGATE AND SHALL PASS A 3/4-INCH SIEVE. NOT MORE THAN 15 PERCENT SHALL PASS A NO. 200 SIEVE.

DESIGN GUIDELINES AND BUILDING CODE COMPLIANCE

THE FOLLOWING DESIGN GUIDELINES (LATEST EDITIONS) WERE UTILIZED IN GENERATING THE DESIGN PLANS:

A. FLORIDA BUILDING CODE (FBC)
B. STATE REQUIREMENTS FOR EDUCATIONAL FACILITIES (SREF)
C. VOLUSIA COUNTY SCHOOLS DESIGN GUIDELINES

CONTRACTOR SHALL REFERENCE AND COMPLY WITH THESE GUIDELINE FOR MATERIAL AND CONSTRUCTION METHOD REQUIREMENTS.

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Landscape No. LC000298

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REVISIONS

DOCUMENT HISTORY	
CONFORMED SET	
1/6/2026	

UNIVERSITY HIGH SCHOOL
EXTEND PARENT LOOP
VCS Project NO. 2548185
1000 RHODE ISLAND AVE., ORANGE CITY
VOLUSIA COUNTY, FLORIDA 32763

ARCHENGR OF RECORD: Allen C. Lane, P.E.	
DESIGNED BY: BCB	DRAWN BY: ZA
ISSUE DATE: 02.07.25	AE PROJECT NUMBER: 2501359
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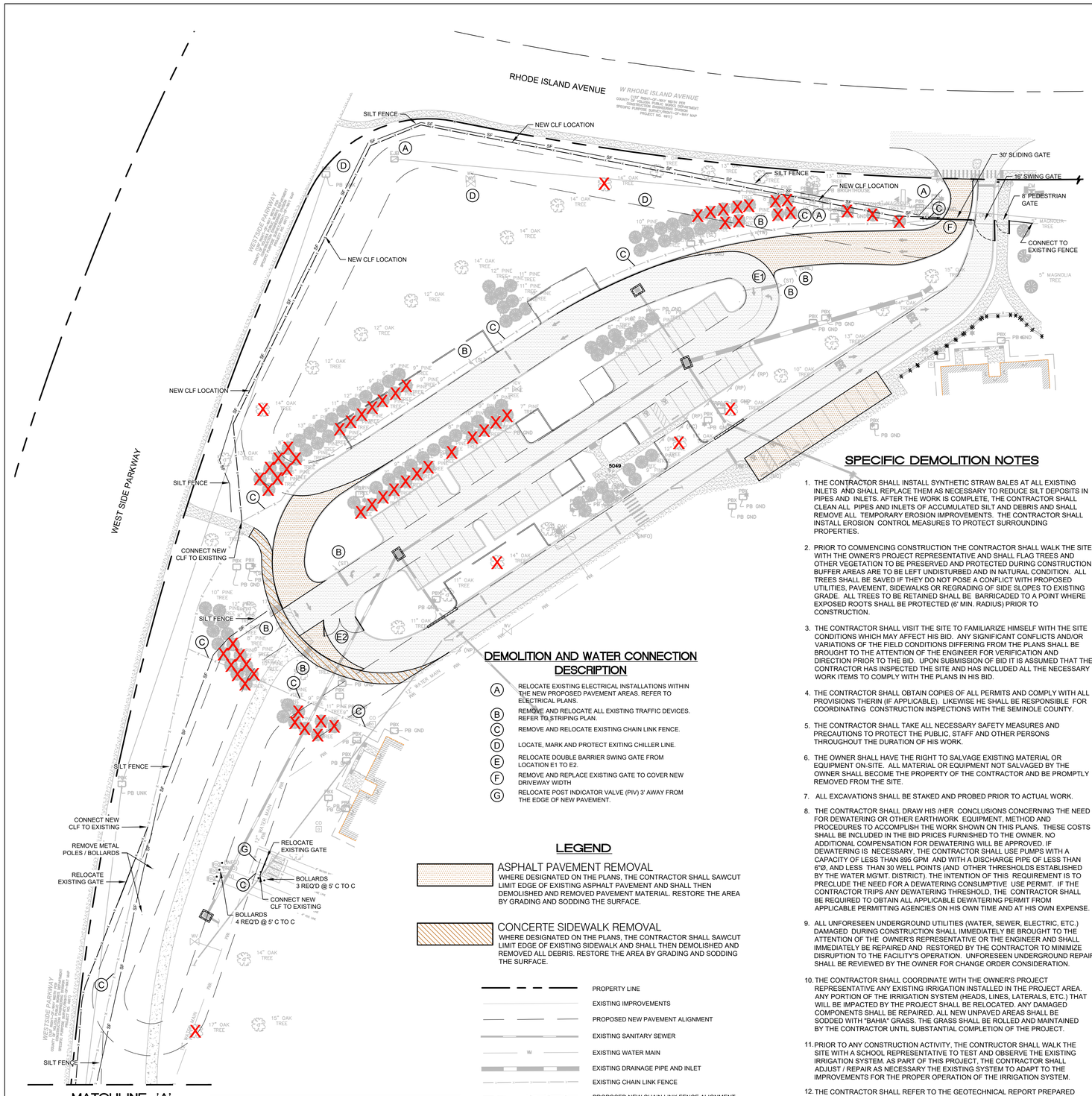


SPECIFIC DEMOLITION NOTES

1. THE CONTRACTOR SHALL INSTALL SYNTHETIC STRAW BALES AT ALL EXISTING INLETS AND SHALL REPLACE THEM AS NECESSARY TO REDUCE SILT DEPOSITS IN PIPES AND INLETS. AFTER THE WORK IS COMPLETE, THE CONTRACTOR SHALL CLEAN ALL PIPES AND INLETS OF ACCUMULATED SILT AND DEBRIS AND SHALL REMOVE ALL TEMPORARY EROSION IMPROVEMENTS. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES TO PROTECT SURROUNDING PROPERTIES.
2. PRIOR TO COMMENCING CONSTRUCTION THE CONTRACTOR SHALL WALK THE SITE WITH THE OWNER'S PROJECT REPRESENTATIVE AND SHALL FLAG TREES AND OTHER VEGETATION TO BE PRESERVED AND PROTECTED DURING CONSTRUCTION. BUFFER AREAS ARE TO BE LEFT UNDISTURBED AND IN NATURAL CONDITION. ALL TREES SHALL BE SAVED IF THEY DO NOT POSE A CONFLICT WITH PROPOSED UTILITIES, PAVEMENT, SIDEWALKS OR REGRADING OF SIDE SLOPES TO EXISTING GRADE. ALL TREES TO BE RETAINED SHALL BE BARRICADED TO A POINT WHERE EXPOSED ROOTS SHALL BE PROTECTED (6' MIN. RADIUS) PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE HIMSELF WITH THE SITE CONDITIONS WHICH MAY AFFECT HIS BID. ANY SIGNIFICANT CONFLICTS AND/OR VARIATIONS OF THE FIELD CONDITIONS DIFFERING FROM THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR VERIFICATION AND DIRECTION PRIOR TO THE BID. UPON SUBMISSION OF BID IT IS ASSUMED THAT THE CONTRACTOR HAS INSPECTED THE SITE AND HAS INCLUDED ALL THE NECESSARY WORK ITEMS TO COMPLY WITH THE PLANS IN HIS BID.
4. THE CONTRACTOR SHALL OBTAIN COPIES OF ALL PERMITS AND COMPLY WITH ALL PROVISIONS THERIN (IF APPLICABLE). LIKEWISE HE SHALL BE RESPONSIBLE FOR COORDINATING CONSTRUCTION INSPECTIONS WITH THE SEMINOLE COUNTY.
5. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY MEASURES AND PRECAUTIONS TO PROTECT THE PUBLIC, STAFF AND OTHER PERSONS THROUGHOUT THE DURATION OF HIS WORK.
6. THE OWNER SHALL HAVE THE RIGHT TO SALVAGE EXISTING MATERIAL OR EQUIPMENT ON-SITE. ALL MATERIAL OR EQUIPMENT NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE PROMPTLY REMOVED FROM THE SITE.
7. ALL EXCAVATIONS SHALL BE STAKED AND PROBED PRIOR TO ACTUAL WORK.
8. THE CONTRACTOR SHALL DRAW HIS /HER CONCLUSIONS CONCERNING THE NEED FOR DEWATERING OR OTHER EARTHWORK EQUIPMENT, METHOD AND PROCEDURES TO ACCOMPLISH THE WORK SHOWN ON THIS PLANS. THESE COSTS SHALL BE INCLUDED IN THE BID PRICES FURNISHED TO THE OWNER. NO ADDITIONAL COMPENSATION FOR DEWATERING WILL BE APPROVED. IF DEWATERING IS NECESSARY, THE CONTRACTOR SHALL USE PUMPS WITH A CAPACITY OF LESS THAN 895 GPM AND WITH A DISCHARGE PIPE OF LESS THAN 6"Ø, AND LESS THAN 30 WELL POINTS (AND OTHER THRESHOLDS ESTABLISHED BY THE WATER MG'MT. DISTRICT). THE INTENTION OF THIS REQUIREMENT IS TO PRECLUDE THE NEED FOR A DEWATERING CONSUMPTIVE USE PERMIT. IF THE CONTRACTOR TRIPS ANY DEWATERING THRESHOLD, THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN ALL APPLICABLE DEWATERING PERMIT FROM APPLICABLE PERMITTING AGENCIES ON HIS OWN TIME AND AT HIS OWN EXPENSE.
9. ALL UNFORESEEN UNDERGROUND UTILITIES (WATER, SEWER, ELECTRIC, ETC.) DAMAGED DURING CONSTRUCTION SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE OR THE ENGINEER AND SHALL IMMEDIATELY BE REPAIRED AND RESTORED BY THE CONTRACTOR TO MINIMIZE DISRUPTION TO THE FACILITY'S OPERATION. UNFORESEEN UNDERGROUND REPAIRS SHALL BE REVIEWED BY THE OWNER FOR CHANGE ORDER CONSIDERATION.
10. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER'S PROJECT REPRESENTATIVE ANY EXISTING IRRIGATION INSTALLED IN THE PROJECT AREA. ANY PORTION OF THE IRRIGATION SYSTEM (HEADS, LINES, LATERALS, ETC.) THAT WILL BE IMPACTED BY THE PROJECT SHALL BE RELOCATED. ANY DAMAGED COMPONENTS SHALL BE REPAIRED. ALL NEW UNPAVED AREAS SHALL BE SODDED WITH "BAHIA" GRASS. THE GRASS SHALL BE ROLLED AND MAINTAINED BY THE CONTRACTOR UNTIL SUBSTANTIAL COMPLETION OF THE PROJECT.
11. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRUCTOR SHALL WALK THE SITE WITH A SCHOOL REPRESENTATIVE TO TEST AND OBSERVE THE EXISTING IRRIGATION SYSTEM. AS PART OF THIS PROJECT, THE CONTRACTOR SHALL ADJUST / REPAIR AS NECESSARY THE EXISTING SYSTEM TO ADAPT TO THE IMPROVEMENTS FOR THE PROPER OPERATION OF THE IRRIGATION SYSTEM.
12. THE CONTRACTOR SHALL REFER TO THE GEOTECHNICAL REPORT PREPARED BY GEOTECHNICAL AND ENVIRONMENT CONSULTANTS, INC., DATED XX.XX.XXXX FOR ALL EARTHWORK REQUIREMENTS, PROCEDURES, MATERIALS, TESTING AND INSPECTIONS.
13. THE CONTRACTOR SHALL INSTALL A TEMPORARY CONSTRUCTION 6' HIGH DOUBLE CHAIN LINK PERIMETER FENCE 10' APART TO SEPARATE THE CONSTRUCTION AREA FROM THE REST OF THE CAMPUS AND SHALL MAINTAIN THE CONSTRUCTION FENCE THROUGH THE DURATION OF THE PROJECT.

DEMOLITION AND WATER CONNECTION DESCRIPTION

- (A) RELOCATE EXISTING ELECTRICAL INSTALLATIONS WITHIN THE NEW PROPOSED PAVEMENT AREAS. REFER TO ELECTRICAL PLANS.
- (B) REMOVE AND RELOCATE ALL EXISTING TRAFFIC DEVICES. REFER TO STRIPING PLAN.
- (C) REMOVE AND RELOCATE EXISTING CHAIN LINK FENCE.
- (D) LOCATE, MARK AND PROTECT EXITING CHILLER LINE.
- (E) RELOCATE DOUBLE BARRIER SWING GATE FROM LOCATION E1 TO E2.
- (F) REMOVE AND REPLACE EXISTING GATE TO COVER NEW DRIVEWAY WIDTH
- (G) RELOCATE POST INDICATOR VALVE (PIV) 3' AWAY FROM THE EDGE OF NEW PAVEMENT.

LEGEND

ASPHALT PAVEMENT REMOVAL
WHERE DESIGNATED ON THE PLANS, THE CONTRACTOR SHALL SAWCUT LIMIT EDGE OF EXISTING ASPHALT PAVEMENT AND SHALL THEN DEMOLISHED AND REMOVED PAVEMENT MATERIAL. RESTORE THE AREA BY GRADING AND SODDING THE SURFACE.

CONCERTE SIDEWALK REMOVAL
WHERE DESIGNATED ON THE PLANS, THE CONTRACTOR SHALL SAWCUT LIMIT EDGE OF EXISTING SIDEWALK AND SHALL THEN DEMOLISHED AND REMOVED ALL DEBRIS. RESTORE THE AREA BY GRADING AND SODDING THE SURFACE.

- PROPERTY LINE
- EXISTING IMPROVEMENTS
- PROPOSED NEW PAVEMENT ALIGNMENT
- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- EXISTING DRAINAGE PIPE AND INLET
- EXISTING CHAIN LINK FENCE
- PROPOSED NEW CHAIN LINK FENCE ALIGNMENT
- SF — SILT FENCE
- FIBER FLOCCULENT TUBES
- SYNTHETIC BALE
- TREE REMOVAL

EROSION CONTROL NOTE

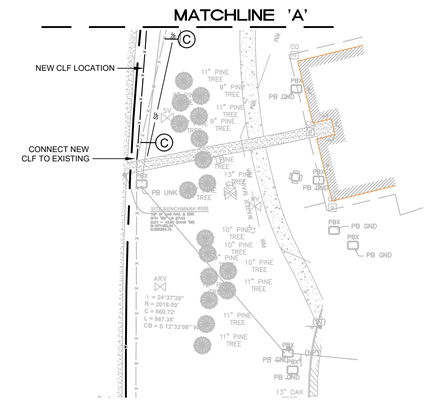
THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES TO PROTECT SURROUNDING PROPERTIES. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL INSTALL FILTER FABRIC AT ALL EXISTING INLETS AND SHALL REPLACE THEM AS NECESSARY TO REDUCE SILT DEPOSITS IN PIPES AND INLETS. AS PART OF THE EROSION AND SEDIMENTATION CONTROL, INSTALL SILT FENCE AS SHOWN ON THE SITE PLAN. SILT FENCE SHALL BE MAINTAIN IN GOOD WORKING CONDITION THROUGHOUT THE DURATION OF THE CONSTRUCTION. AFTER THE WORK IS COMPLETE, THE CONTRACTOR SHALL CLEAN ALL PIPES AND INLETS OF ACCUMULATED SILT AND DEBRIS AND SHALL REMOVE ALL TEMPORARY EROSION IMPROVEMENTS.

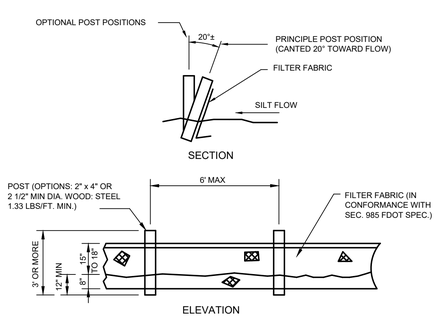
N

GRID

40 0 40

Graphic Scale in Feet





TYPE III SILT FENCE DETAIL

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Architect. No. AA26000926
Landscape No. LC000298

ALLEN C. LANE, P.E.
FL. REG. No. 60144

REVISIONS

DOCUMENT HISTORY	
1/6/2026	CONFORMED SET

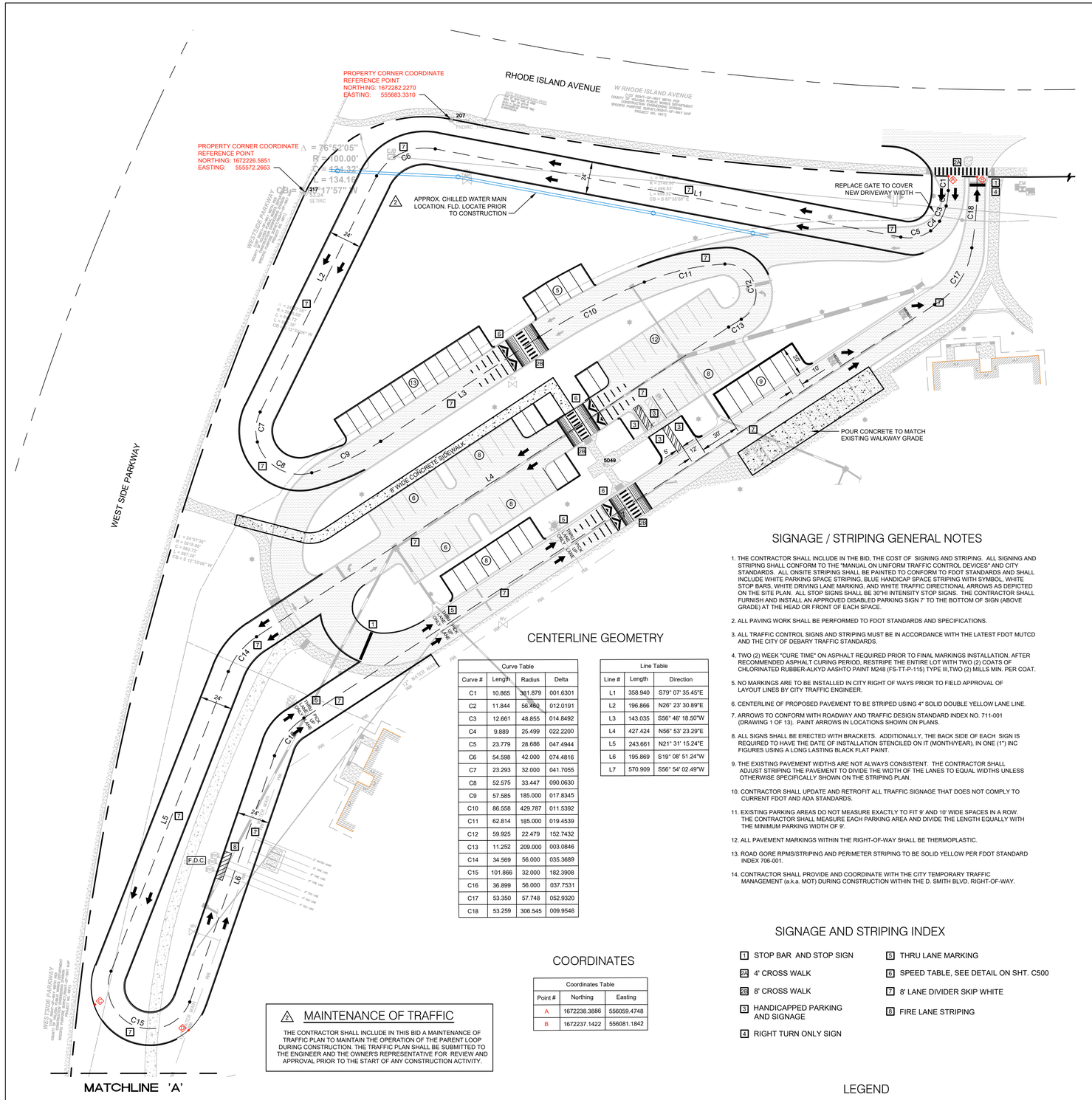
UNIVERSITY HIGH SCHOOL
EXTEND PARENT LOOP
VCS Project NO. 2548185
1000 RHODE ISLAND AVE., ORANGE CITY
VOLUSIA COUNTY, FLORIDA 32763

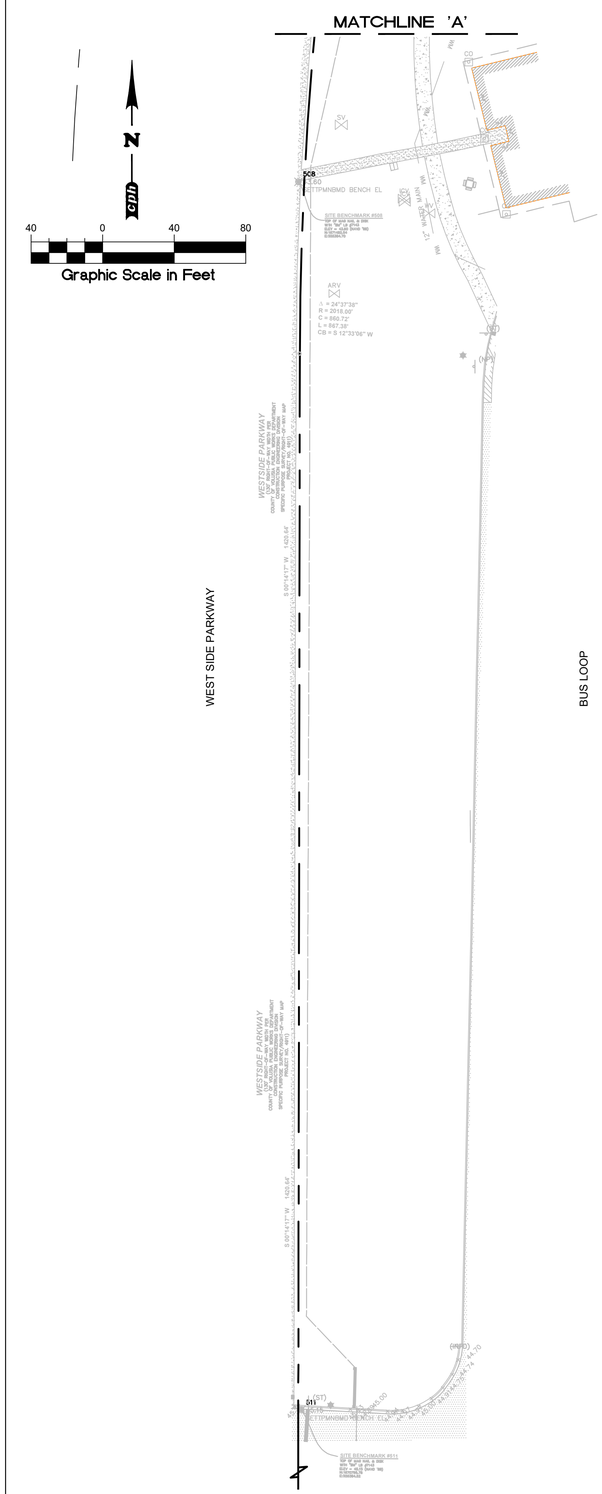
ARCHENGR OF RECORD: Allen C. Lane, P.E.

DESIGNED BY	DRAWN BY
BCB	ZA
ISSUE DATE: 02.07.25	AE PROJECT NUMBER: 2501359

SHEET TITLE: DEMOLITION PLAN

DRAWING NO. C100





SIGNAGE / STRIPING GENERAL NOTES

1. THE CONTRACTOR SHALL INCLUDE IN THE BID, THE COST OF SIGNING AND STRIPING. ALL SIGNING AND STRIPING SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND CITY STANDARDS. ALL ONSITE STRIPING SHALL BE PAINTED TO CONFORM TO FDOT STANDARDS AND SHALL INCLUDE WHITE PARKING SPACE STRIPING, BLUE HANDICAP SPACE STRIPING WITH SYMBOL, WHITE STOP BARS, WHITE DRIVING LANE MARKING, AND WHITE TRAFFIC DIRECTIONAL ARROWS AS DEPICTED ON THE SITE PLAN. ALL STOP SIGNS SHALL BE 30"HI INTENSITY STOP SIGNS. THE CONTRACTOR SHALL FURNISH AND INSTALL AN APPROVED DISABLED PARKING SIGN 7' TO THE BOTTOM OF SIGN (ABOVE GRADE) AT THE HEAD OR FRONT OF EACH SPACE.
2. ALL PAVING WORK SHALL BE PERFORMED TO FDOT STANDARDS AND SPECIFICATIONS.
3. ALL TRAFFIC CONTROL SIGNS AND STRIPING MUST BE IN ACCORDANCE WITH THE LATEST FDOT MUTCD AND THE CITY OF DEBARY TRAFFIC STANDARDS.
4. TWO (2) WEEK "CURE TIME" ON ASPHALT REQUIRED PRIOR TO FINAL MARKINGS INSTALLATION. AFTER RECOMMENDED ASPHALT CURING PERIOD, RESTRIPE THE ENTIRE LOT WITH TWO (2) COATS OF CHLORINATED RUBBER-ALKYD AASHTO PAINT M248 (FS-TT-P-115) TYPE III,TWO (2) MILLS MIN. PER COAT.
5. NO MARKINGS ARE TO BE INSTALLED IN CITY RIGHT OF WAYS PRIOR TO FIELD APPROVAL OF LAYOUT LINES BY CITY TRAFFIC ENGINEER.
6. CENTERLINE OF PROPOSED PAVEMENT TO BE STRIPED USING 4" SOLID DOUBLE YELLOW LANE LINE.
7. ARROWS TO CONFORM WITH ROADWAY AND TRAFFIC DESIGN STANDARD INDEX NO. 711-001 (DRAWING 1 OF 13). PAINT ARROWS IN LOCATIONS SHOWN ON PLANS.
8. ALL SIGNS SHALL BE ERECTED WITH BRACKETS. ADDITIONALLY, THE BACK SIDE OF EACH SIGN IS REQUIRED TO HAVE THE DATE OF INSTALLATION STENCILED ON IT (MONTH/YEAR), IN ONE (1") INC FIGURES USING A LONG LASTING BLACK FLAT PAINT.
9. THE EXISTING PAVEMENT WIDTHS ARE NOT ALWAYS CONSISTENT. THE CONTRACTOR SHALL ADJUST STRIPING THE PAVEMENT TO DIVIDE THE WIDTH OF THE LANES TO EQUAL WIDTHS UNLESS OTHERWISE SPECIFICALLY SHOWN ON THE STRIPING PLAN.
10. CONTRACTOR SHALL UPDATE AND RETROFIT ALL TRAFFIC SIGNAGE THAT DOES NOT COMPLY TO CURRENT FDOT AND ADA STANDARDS.
11. EXISTING PARKING AREAS DO NOT MEASURE EXACTLY TO FIT 9' AND 10' WIDE SPACES IN A ROW. THE CONTRACTOR SHALL MEASURE EACH PARKING AREA AND DIVIDE THE LENGTH EQUALLY WITH THE MINIMUM PARKING WIDTH OF 9'.
12. ALL PAVEMENT MARKINGS WITHIN THE RIGHT-OF-WAY SHALL BE THERMOPLASTIC.
13. ROAD GORE RPMS/STRIPING AND PERIMETER STRIPING TO BE SOLID YELLOW PER FDOT STANDARD INDEX 706-001.
14. CONTRACTOR SHALL PROVIDE AND COORDINATE WITH THE CITY TEMPORARY TRAFFIC MANAGEMENT (a.k.a. MOT) DURING CONSTRUCTION WITHIN THE D. SMITH BLVD. RIGHT-OF-WAY.

CENTERLINE GEOMETRY

Curve Table			
Curve #	Length	Radius	Delta
C1	10.865	381.879	001.6301
C2	11.844	56.460	012.0191
C3	12.661	48.855	014.8492
C4	9.889	25.499	022.2200
C5	23.779	28.686	047.4944
C6	54.598	42.000	074.4816
C7	23.293	32.000	041.7055
C8	52.575	33.447	090.0630
C9	57.585	185.000	017.8345
C10	86.558	429.787	011.5392
C11	62.814	185.000	019.4539
C12	59.925	22.479	152.7432
C13	11.252	209.000	003.0846
C14	34.569	56.000	035.3689
C15	101.866	32.000	182.3908
C16	36.899	56.000	037.7531
C17	53.350	57.748	052.9320
C18	53.259	306.545	009.9546

Line Table		
Line #	Length	Direction
L1	358.940	S79° 07' 35.45"E
L2	196.866	N26° 23' 30.89"E
L3	143.035	S56° 46' 18.50"W
L4	427.424	N56° 53' 23.29"E
L5	243.661	N21° 31' 15.24"E
L6	195.869	S19° 08' 51.24"W
L7	570.909	S56° 54' 02.49"W

COORDINATES

Coordinates Table		
Point #	Northing	Easting
A	1672238.3886	556059.4748
B	1672237.1422	556081.1842

MAINTENANCE OF TRAFFIC

THE CONTRACTOR SHALL INCLUDE IN THIS BID A MAINTENANCE OF TRAFFIC PLAN TO MAINTAIN THE OPERATION OF THE PARENT LOOP DURING CONSTRUCTION. THE TRAFFIC PLAN SHALL BE SUBMITTED TO THE ENGINEER AND THE OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY.

SIGNAGE AND STRIPING INDEX

- 1 STOP BAR AND STOP SIGN
- 2A 4' CROSS WALK
- 2B 8' CROSS WALK
- 3 HANDICAPPED PARKING AND SIGNAGE
- 4 RIGHT TURN ONLY SIGN
- 5 THRU LANE MARKING
- 6 SPEED TABLE, SEE DETAIL ON SHT. C500
- 7 8' LANE DIVIDER SKIP WHITE
- 8 FIRE LANE STRIPING

LEGEND

- EDGE OF PAVEMENT
- 2 TRAFFIC SIGN / MARKING
- STRIPING LINES
- 15 PARKING COUNT
- DIRECTIONAL ARROWS
- COORDINATE POINT
- EXISTING CHILLED WATER MAIN

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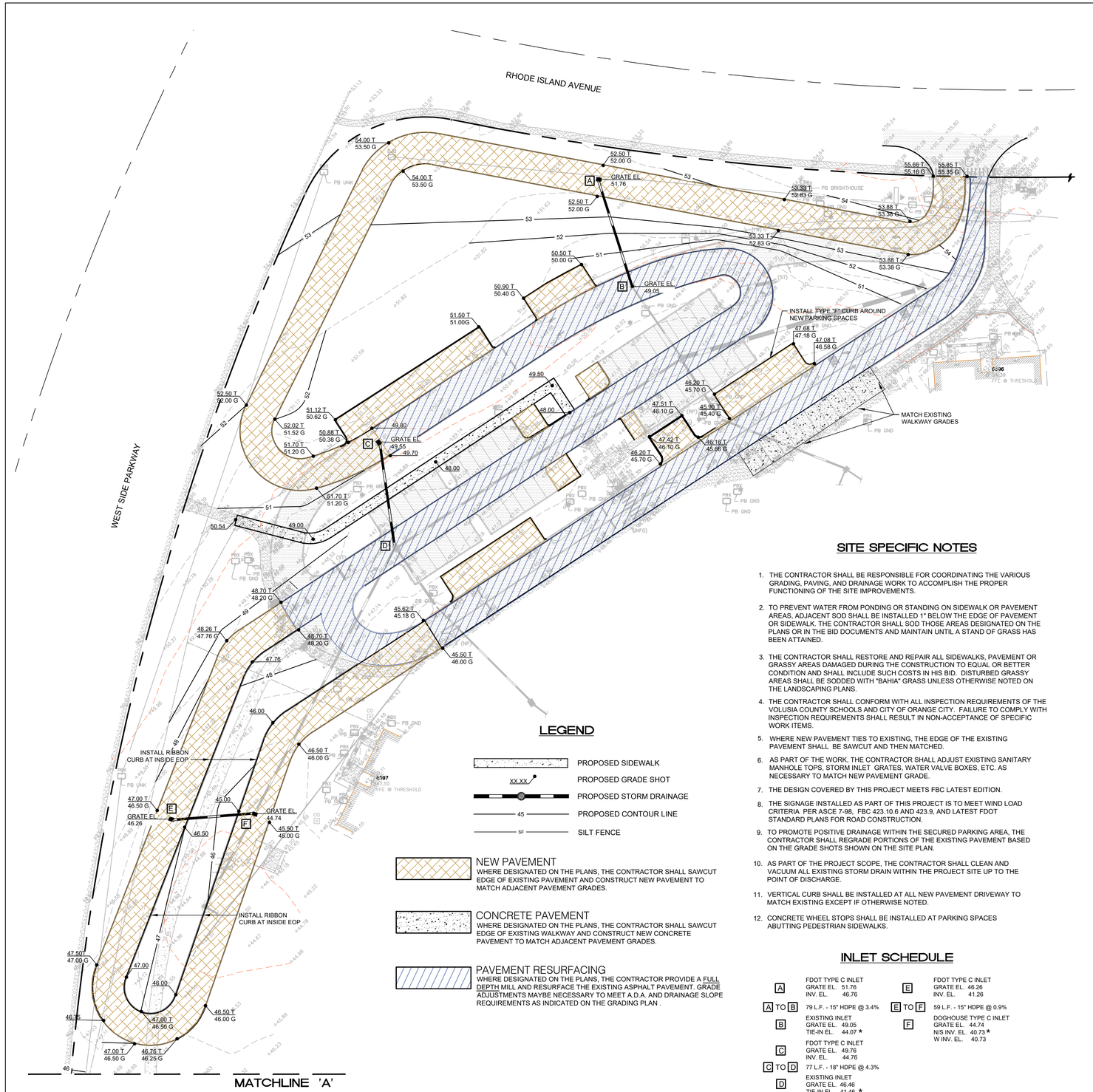
VCS Project NO. 2548185
1000 RHODE ISLAND AVE., ORANGE CITY
VOLUSIA COUNTY, FLORIDA 32763

ARCHENGR OF RECORD: Allen C. Lane, P.E.	
DESIGNED BY: BCB	DRAWN BY: ZA
ISSUE DATE: 02.07.25	AE PROJECT NUMBER: 2501359
SHEET TITLE: DIMENSION, AND STRIPING PLAN	
DRAWING NO.: C101	



SITE SPECIFIC NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE VARIOUS GRADING, PAVING, AND DRAINAGE WORK TO ACCOMPLISH THE PROPER FUNCTIONING OF THE SITE IMPROVEMENTS.
2. TO PREVENT WATER FROM PONDING OR STANDING ON SIDEWALK OR PAVEMENT AREAS, ADJACENT SOD SHALL BE INSTALLED 1" BELOW THE EDGE OF PAVEMENT OR SIDEWALK. THE CONTRACTOR SHALL SOD THOSE AREAS DESIGNATED ON THE PLANS OR IN THE BID DOCUMENTS AND MAINTAIN UNTIL A STAND OF GRASS HAS BEEN ATTAINED.
3. THE CONTRACTOR SHALL RESTORE AND REPAIR ALL SIDEWALKS, PAVEMENT OR GRASSY AREAS DAMAGED DURING THE CONSTRUCTION TO EQUAL OR BETTER CONDITION AND SHALL INCLUDE SUCH COSTS IN HIS BID. DISTURBED GRASSY AREAS SHALL BE SODDED WITH "BAHIA" GRASS UNLESS OTHERWISE NOTED ON THE LANDSCAPING PLANS.
4. THE CONTRACTOR SHALL CONFORM WITH ALL INSPECTION REQUIREMENTS OF THE VOLUSIA COUNTY SCHOOLS AND CITY OF ORANGE CITY. FAILURE TO COMPLY WITH INSPECTION REQUIREMENTS SHALL RESULT IN NON-ACCEPTANCE OF SPECIFIC WORK ITEMS.
5. WHERE NEW PAVEMENT TIES TO EXISTING, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT AND THEN MATCHED.
6. AS PART OF THE WORK, THE CONTRACTOR SHALL ADJUST EXISTING SANITARY MANHOLE TOPS, STORM INLET GRATES, WATER VALVE BOXES, ETC. AS NECESSARY TO MATCH NEW PAVEMENT GRADE.
7. THE DESIGN COVERED BY THIS PROJECT MEETS FBC LATEST EDITION.
8. THE SIGNAGE INSTALLED AS PART OF THIS PROJECT IS TO MEET WIND LOAD CRITERIA PER ASCE 7-98, FBC 423.10.6 AND 423.9, AND LATEST FDOT STANDARD PLANS FOR ROAD CONSTRUCTION.
9. TO PROMOTE POSITIVE DRAINAGE WITHIN THE SECURED PARKING AREA, THE CONTRACTOR SHALL REGRADE PORTIONS OF THE EXISTING PAVEMENT BASED ON THE GRADE SHOTS SHOWN ON THE SITE PLAN.
10. AS PART OF THE PROJECT SCOPE, THE CONTRACTOR SHALL CLEAN AND VACUUM ALL EXISTING STORM DRAIN WITHIN THE PROJECT SITE UP TO THE POINT OF DISCHARGE.
11. VERTICAL CURB SHALL BE INSTALLED AT ALL NEW PAVEMENT DRIVEWAY TO MATCH EXISTING EXCEPT IF OTHERWISE NOTED.
12. CONCRETE WHEEL STOPS SHALL BE INSTALLED AT PARKING SPACES ABUTTING PEDESTRIAN SIDEWALKS.

LEGEND

- PROPOSED SIDEWALK
- XX.XX — PROPOSED GRADE SHOT
- PROPOSED STORM DRAINAGE
- 45 — PROPOSED CONTOUR LINE
- SF — SILT FENCE

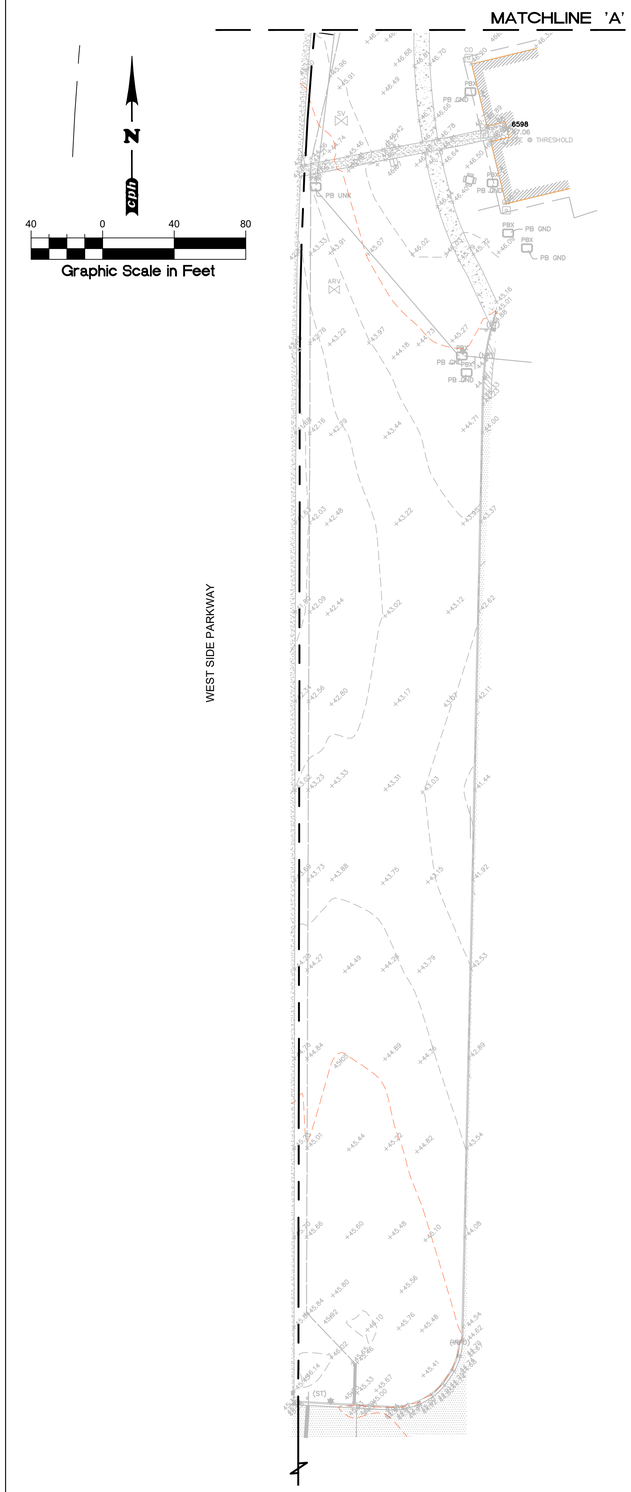
NEW PAVEMENT
WHERE DESIGNATED ON THE PLANS, THE CONTRACTOR SHALL SAWCUT EDGE OF EXISTING PAVEMENT AND CONSTRUCT NEW PAVEMENT TO MATCH ADJACENT PAVEMENT GRADES.

CONCRETE PAVEMENT
WHERE DESIGNATED ON THE PLANS, THE CONTRACTOR SHALL SAWCUT EDGE OF EXISTING WALKWAY AND CONSTRUCT NEW CONCRETE PAVEMENT TO MATCH ADJACENT PAVEMENT GRADES.

PAVEMENT RESURFACING
WHERE DESIGNATED ON THE PLANS, THE CONTRACTOR PROVIDE A FULL DEPTH MILL AND RESURFACE THE EXISTING ASPHALT PAVEMENT. GRADE ADJUSTMENTS MAYBE NECESSARY TO MEET A.D.A. AND DRAINAGE SLOPE REQUIREMENTS AS INDICATED ON THE GRADING PLAN .

INLET SCHEDULE

A	FDOT TYPE C INLET GRATE EL. 51.76 INV. EL. 46.76	E	FDOT TYPE C INLET GRATE EL. 46.26 INV. EL. 41.26
A TO B	79 L.F. - 15" HDPE @ 3.4%	E TO F	59 L.F. - 15" HDPE @ 0.9%
B	EXISTING INLET GRATE EL. 49.05 TIE-IN EL. 44.07 *	F	DOGHOUSE TYPE C INLET GRATE EL. 44.74 N/S INV. EL. 40.73 * W INV. EL. 40.73
C	FDOT TYPE C INLET GRATE EL. 49.76 INV. EL. 44.76		
C TO D	77 L.F. - 18" HDPE @ 4.3%		
D	EXISTING INLET GRATE EL. 46.46 TIE-IN EL. 41.46 *		



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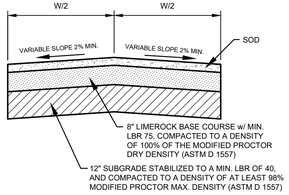
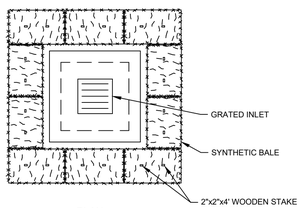
ARCHENGR OF RECORD: Allen C. Lane, P.E.	
DESIGNED BY: BCB	DRAWN BY: ZA
ISSUE DATE: 02.07.25	AE PROJECT NUMBER: 2501359
SHEET TITLE: GRADING AND DRAINAGE PLAN	
DRAWING NO.: C102	

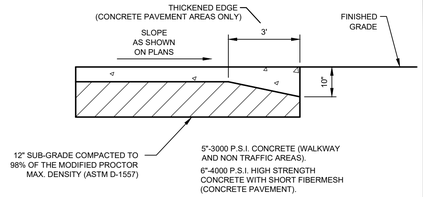


STABILIZED VEHICULAR ACCESS ROAD DETAIL



PLAN

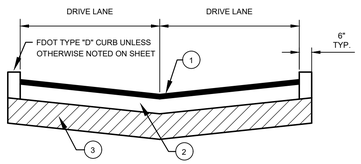
SYNTHETIC BALE SEDIMENT CONTROL



CONCRETE CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL PROVIDE ISOLATION JOINTS TO ISOLATE FIXED OBJECTS ABUTTING OR WITHIN THE CONCRETE AREA INCLUDING BUILDINGS. THESE SHALL CONTAIN PREMOLDED JOINT FILLER FOR THE FULL DEPTH OF THE PAVING SLABS.
2. THE CONTRACTOR SHALL PLACE FULL DEPTH CONSTRUCTION JOINTS AT 40' MAX AT THE END OF CONCRETE POURS AND AT LOCATIONS WHERE PLACEMENT OPERATIONS ARE STOPPED FOR A PERIOD OF 30 MINUTES OR MORE, EXCEPT WHERE SUCH POURS TERMINATE AT ISOLATION JOINTS.
3. TOPS OF ALL PREMOLDED JOINT FILLERS TO BE SEALED WITH ELASTOMERIC CHALK.
4. AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT SAWING WITHOUT EXCESSIVE RAVELING AND BEFORE UNCONTROLLED CRACKING OCCURS, THE CONTRACTOR SHALL CONSTRUCT CONTROL JOINTS (TO A DEPTH OF 1/4 OF THE SLAB THICKNESS) AT 45' INTERVALS AND AT CRITICAL LOCATIONS SUCH AS NARROW AREAS, INTERIOR CORNERS, CATCH BASINS AND OTHER FIXED OBJECTS WITHIN THE CONCRETE AREA. THE CONTRACTOR SHALL THE RETURN AND PLACE INTERVENING CONTROL JOINTS AT SPACING NOT EXCEEDING 8'. JOINT CONSTRUCTION SHALL BE COMPLETED 4 TO 6 HOURS AFTER PAVING HAS BEEN PLACED. THE CONTRACTOR SHALL CLEAN ALL CONSTRUCTION JOINTS THOROUGHLY.
5. JOINTS SHALL BE CONTINUOUS ACROSS THE SLAB.
6. JOINT ALIGNMENT MAY BE SKEWED OR WARPED FROM THE NORMAL GRID PATTERN WHERE NECESSARY TO REACH POINTS OF STRESS CONCENTRATION NOT ON NORMAL PATTERN.
7. FORM OFFSETS USED BY CONTRACTORS AT RADIUS POINTS TO PROVIDE CONTINUITY IN PAVING OPERATIONS MUST BE AT LEAST 1'-0" TO AVOID SLIVERS OF CONCRETE THAT MAY BE EASILY BROKEN OFF.
8. NO JOINT ANGLE LESS THAN 45° SHALL BE CONSTRUCTED BETWEEN INTERSECTING JOINTS. JOINT DOG LEGS OR FILLETS AT RADIUS POINTS SHALL BE AT LEAST 1' LONG.
9. WHEN CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL CAREFULLY BACKFILL AND COMPACT BEHIND THE SLAB.
10. THE CONTRACTOR SHALL SHAPE AND COMPACT THE SUBGRADE ACCORDING TO THE TYPICAL SECTION AND SPECIFICATIONS. THE CONTRACTOR SHALL THEN PROOF ROLL THE SUBGRADE WITH A LOADED FRONT END LOADER OR LOADED TANDEM AXLED TRUCK IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE AND SHALL UNDERCUT AND BACKFILL ALL UNSTABLE OR SOFT AREAS TO A MINIMUM DEPTH OF 2' WITH CLEAN BUILDER'S SAND. THE CONTRACTOR HALL THEN RESHAPE AND RE-COMPACT THE SUBGRADE. COMPACTION TESTS MAY BE REQUESTED EVERY 500' OR AS DIRECTED BY THE OWNER.
11. ALL JOINTING SHALL BE DONE IN ACCORDANCE WITH P.C.A. AND F.D.O.T. STANDARDS AND SPECIFICATIONS.
12. THE CONTRACTOR SHALL PREPARE AND SUBMIT A JOINTING PLANT TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO COMMENCING THE CONCRETE WORK.

CONCRETE PAVEMENT DETAIL



	1A	1B	2	3
TYPE OF SERVICE	ASPHALTIC CONCRETE SURFACE	ASPHALTIC CONCRETE SURFACE	BASE	SUB-GRADE
DRIVE LANES		2" TYPE SP-12.5	8 INCHES	8 INCHES
DRIVE LANES		2" TYPE SP-12.5	8 INCHES	8 INCHES
PARKING SPACES		1 1/2" TYPE SP-9.5	6 INCHES	6 INCHES
ROAD (OFFSITE)	1" TYPE FC-4	1 1/2" TYPE SP-9.5	8 INCHES	10 INCHES STABILIZED
ROAD CURB PADS (OFFSITE)			6 INCHES STABILIZED	

PAVEMENT DESIGN:

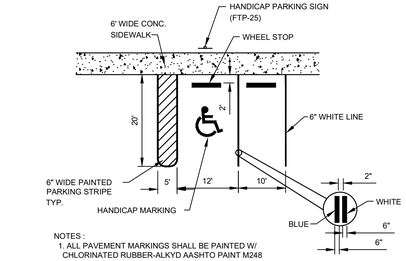
FDOT ASPHALTIC CONCRETE. USE OF 15% MAX. RECYCLED ASPHALT PAVEMENT (RAP) MATERIAL IN THE ASPHALT MIX IS ACCEPTABLE.

CRUSHED CONCRETE BASE MUST MEET FDOT ROAD AND BRIDGE CONSTRUCTION SPECIFICATIONS SECTION 204 REQUIREMENTS. CRUSHED CONCRETE BASE SHALL A MINIMUM LBR RATIO OF 150 MAX. 4" LIFT COMPACTED TO 98% MAX. DRY DENSITY (ASTM-D1557, AASHTO T-180. REFER TO SOILS REPORT IF LIMEROCK IS THE PREFERRED BASE MATERIAL.

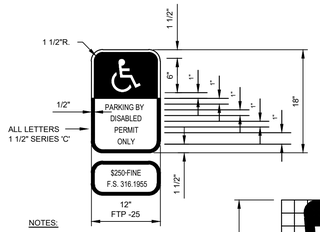
SUBBASE SHALL HAVE A MINIMUM LIMEROCK BEARING RATIO (LBR) VALUE OF 40%. THE STABILIZED SUBBASE MUST BE COMPACTED TO A MINIMUM 98% OF MODIFIED PROCTOR MAXIMUM DRY DENSITY (ASTM D-1557, AASHTO T-180)

THE CONTRACTOR SHALL COMPLY WITH THE SITE PREPARATION RECOMMENDATIONS AND REQUIREMENTS STIPULATED IN THE 05/07/21 SOIL REPORT PREPARED BY ARDAMAN & ASSOCIATES, INC.

TYPICAL PAVEMENT DETAIL



NOTES :
1. ALL PAVEMENT MARKINGS SHALL BE PAINTED W/ CHLORINATED RUBBER-ALKYD AASHTO PAINT M248 (FS-TT-P-115) TYPE III MIN. 2 COATS, MIN. 2 MILLS EACH COAT.
2. ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE VOLUSIA COUNTY CODE AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
3. HC LANE MARKINGS SHALL BE BLUE. STRIPED AREA AND ALL NONE-HC SPACES SHELL BE WHITE.



NOTES:

1. TOP PORTION OF FTP 25 SHALL HAVE A REFLECTIVE BLUE BACKGROUND WITH WHITE REFLECTIVE SYMBOL AND BORDER.

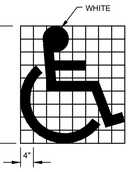
2. BOTTOM PORTION SHALL HAVE A REFLECTIVE WHITE BACKGROUND WITH BLACK OPAQUE LEGEND AND BORDER.

3. FTP 25 MAY BE FABRICATED AN ONE PANEL OR TWO.

4. SIGNS ARE TO BE MOUNTED AT STANDARD HEIGHT. (7' FROM PAVEMENT TO BOTTOM OF SIGN).

SIGNS USED AS PER FLORIDA STATUTES

FTP 25 PER FS 316.1955, FS 316.1956



HANDICAP PAVEMENT SYMBOL

HANDICAP PARKING DETAIL

SITE GENERAL NOTES

1. THE CONTRACTOR SHALL INSTALL SYNTHETIC BALES AT ALL EXISTING INLETS AND SHALL REPLACE THEM AS NECESSARY TO REDUCE SILT DEPOSITS IN PIPES AND INLETS. AFTER THE LANDSCAPING IS COMPLETE, THE CONTRACTOR SHALL CLEAN ALL PIPES AND INLETS OF ACCUMULATED SILT AND DEBRIS AND SHALL REMOVE ALL TEMPORARY EROSION IMPROVEMENTS. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES TO PROTECT SURROUNDING PROPERTIES.
2. THE CONTRACTOR SHALL SOD THOSE AREAS DESIGNATED ON THE PLANS OR IN THE BID DOCUMENTS AND ACCEPTED ALTERNATES. SOD SHALL BE THE SAME TYPE GRASS AS EXISTING.
3. THE CONTRACTOR SHALL VISIT THE SITE TO FAMILIARIZE HIMSELF WITH THE SITE CONDITIONS WHICH MAY AFFECT HIS BID. ANY SIGNIFICANT CONFLICTS AND/OR VARIATIONS OF THE FIELD CONDITIONS DIFFERING FROM THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER FOR VERIFICATION AND DIRECTION PRIOR TO THE BID. UPON SUBMISSION OF BID IT IS ASSUMED THAT THE CONTRACTOR HAS INSPECTED THE SITE AND HAS INCLUDED ALL THE NECESSARY WORK ITEMS TO COMPLY WITH THE PLANS IN HIS BID.
4. IT IS THE OWNER'S INTENT TO START AND COMPLETE THIS WORK AS QUICKLY AS POSSIBLE. THE CONTRACTOR SHALL HAVE 45 CONSECUTIVE CALENDAR DAYS TO SUBSTANTIALLY COMPLETE THE WORK IN THIS CONTRACT AND 7 DAYS TO COMPLETE ALL SUBSEQUENT PUNCH LIST ITEMS. ANY UNSUITABLE TIME DELAY BEYOND THIS 7 DAY PUNCH LIST PERIOD MAY BE THE BASIS FOR ASSESMENT OF LIQUIDATED DAMAGES BY THE OWNER.
5. THE CONTRACTOR SHALL OBTAIN COPIES OF ALL PERMITS AND COMPLY WITH ALL PROVISIONS THERIN (IF APPLICABLE). LIKEWISE, HE SHALL BE RESPONSIBLE IN SECURING ANY LOCAL PERMITS WHICH WILL BE REQUIRED BY THE CITY.
6. MATERIALS AND METHODS FOR STORM DRAINAGE AND PAVEMENT CONSTRUCTION AND STRIPING SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPT. OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST REVISION THEREOF, AND SUPPLEMENTAL SPECIFICATIONS THERETO, AND IN ACCORDANCE WITH CITY STANDARD TECHNICAL SPECIFICATIONS AND SOILS REPORTS.
7. ALL PAVING SURFACES SHALL BE GRADED TO DRAIN POSITIVELY IN THE DIRECTION GENERALLY INDICATED IN THE GRADING PLANN. NO PUDDLING OR "BIRD BATH" WILL BE ACCEPTED IN THE PAVEMENT AREAS. PAVED SURFACES SHALL ALSO BE GRADED TO PROVIDE A SMOOTH TRANSITION TO THE PROPOSED SWALE WITH NO SHARP BREAKS IN GRADE AND NO UNUSUALLY STEEP CROSS SLOPES. ALL PAVEMENT EDGES SHALL BE ROUNDED AND SMOOTH. THE CONTRACTOR IS RESPONSIBLE TO ACCOMPLISH THIS PURPOSE. THE ENGINEER MAY BE CONSULTED SO HE MAY PROVIDE SUPPLEMENTARY INSTRUCTIONS AND DRAWING INTERPRETATION.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE VARIOUS GRADING, DRAINAGE, AND PAVING WORK TO ACCOMPLISH THE PROPER FUNCTIONING OF THE SITE IMPROVEMENTS.
9. TO PREVENT WATER FROM PONDING OR STANDING ON SIDEWALK OR PAVEMENT AREAS, ADJACENT SOD SHALL BE INSTALLED 2" BELOW THE EDGE OF PAVEMENT OR SIDEWALK, UNLESS OTHERWISE NOTED ON THE PLANS.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY MEASURES AND PRECAUTIONS TO PROTECT THE FACULTY, STAFF AND OTHER PERSONS THROUGHOUT THE DURATION OF HIS WORK.
11. THE CONTRACTOR SHALL RESTORE AND REPAIR ALL SIDEWALKS, PAVEMENT OR GRASSY AREAS DAMAGED DURING THE CONSTRUCTION TO EQUAL OR BETTER CONDITION AND SHALL INCLUDE SUCH COSTS IN HIS BID. DISTURBED GRASSY AREAS SHALL BE SODDED WITH SAME GRASS TYPE AS EXISTING UNLESS OTHERWISE NOTED ON THE PLANS.
12. THE OWNER SHALL HAVE THE RIGHT TO SALVAGE MATERIAL OR EQUIPMENT. ALL MATERIAL OR EQUIPMENT NOT SALVAGED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE PROMPTLY REMOVED FROM THE SITE.
13. THE CONTRACTOR SHALL CONFORM WITH ALL INSPECTION REQUIREMENTS OF THE VOLUSIA COUNTY SCHOOL BOARD AND CITY OF DEBARY. FAILURE TO COMPLY WITH INSPECTION REQUIREMENTS SHALL RESULT IN NON-ACCEPTANCE OF SPECIFIC WORK ITEMS.
14. THE BOUNDARY AND TOPOGRAPHIC SURVEY AND EXISTING CULTURAL INFORMATION HAS BEEN PROPOSED BY CPH, INC., DATED 03.06.23. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE SURVEY INFORMATION PROVIDED. THE CONTRACTOR IS DIRECTED TO OBTAIN A COPY OF THE BOUNDARY AND TOPOGRAPHIC SURVEY FOR THE LOCATION AND ELEVATION OF PROPERTY CORNERS, PRMS, AND TBMS.
15. ALL DRAINAGE EXCAVATIONS SHALL BE STAKED AND PROBED PRIOR TO ACTUAL EXCAVATION.
16. THE FIRST ITEM OF WORK SHALL BE TO INSTALL ALL EROSION CONTROL MEASURES AS SHOWN ON THE PLANS OR AS DIRECTED BY THE OWNERS' REPRESENTATIVE.
17. WHERE NEW PAVEMENT TIES INTO THE EXISTING, THE EDGE OF THE EXISTING PAVEMENT SHALL BE SAWCUT AND THEN MATCHED.

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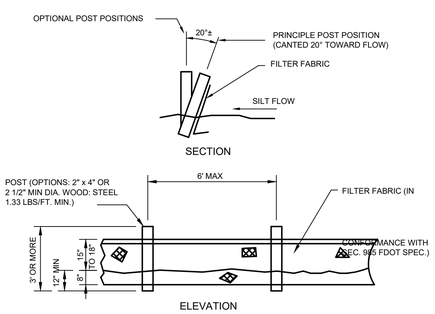
Architect. No. AA26000926
Landscape No. LC000298

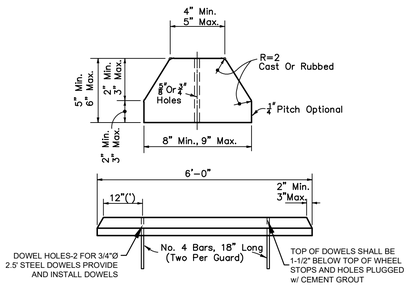
ALLEN C. LANE, P.E.
FL. REG. No. 60144

REVISIONS

DOCUMENT HISTORY	
1/6/2026	CONFORMED SET

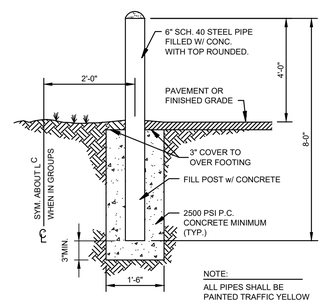


TYPE III SILT FENCE DETAIL



NOTE: WHEEL STOPS TO BE FURNISHED AND INSTALLED AT EACH PARKING SPACE.

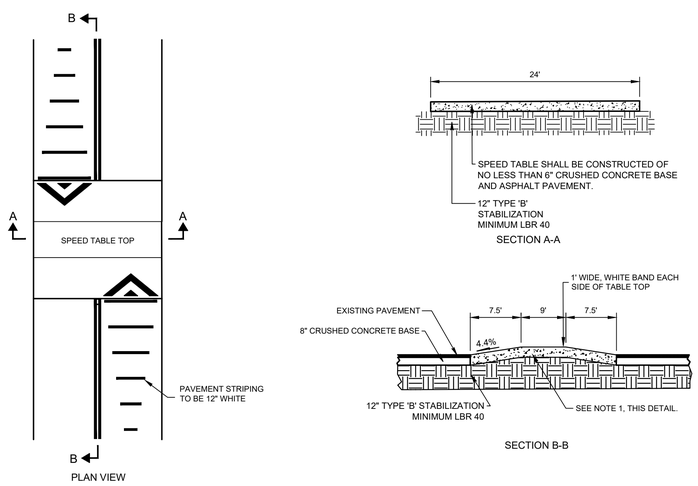
CONCRETE WHEEL STOP DETAIL



NOTE:
ALL PIPES SHALL BE PAINTED TRAFFIC YELLOW

BOLLARD DETAIL

N.T.S.

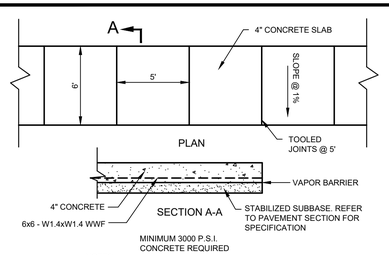


NOTES:

1. SPEED TABLE SHALL BE MINIMUM 6" THICK, 4000 PSI FIBER MESH CONCRETE SURFACE.
2. BASE SHALL BE MINIMUM 12" SUB-BASE, LBR 40.
3. ALL STRIPING AND SIGN PLACEMENT SHALL CONFORM TO MUTCD AND/OR F.D.O.T. STANDARDS.
4. ALL SIGNAGE USED SHALL CONFORM TO THE LATEST STANDARDS OF MUTCD.
5. ALL STRIPING USED SHALL BE THERMOPLASTIC.
6. TRANSITIONS FROM ROADWAY TO SPEED TABLES SHALL BE NEAT AND CLEAN WITH NO RAGGED EDGES.
7. RAISED CROSSWALK SHALL BE LEVEL ACROSS THE TOP SURFACE WITH SIDE SLOPES MATCHING THE CROSS SLOPE OF ROADWAY.

SPEED TABLE DETAIL

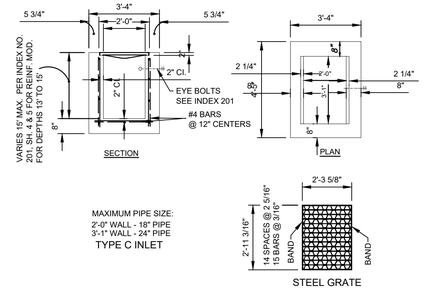
N.T.S.



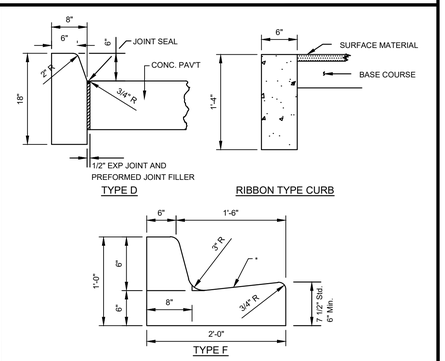
NOTES:

1. 3/4"x4" PREMOLDED EXPANSION MATERIALS AROUND POWER POLES OR OTHER STRUCTURES IN WALK.
2. EXPANSION JOINTS MAXIMUM DISTANCE = 100', USED 3/4"x4" PREMOLDED EXPANSION MATERIAL.
3. CONTRACTION JOINTS MAXIMUM DISTANCE = 21', SAW CUT 2" DEEP AND FILL WITH HOT POURED SEALER.
4. SAW CUT JOINTS WITHIN 24 HOURS.
5. PROVIDE BROOM FINISH TO CONCRETE SURFACE

CONCRETE SIDEWALK DETAIL



FDOT TYPE "C" INLET DETAIL



FDOT CURB DETAILS

UNIVERSITY HIGH SCHOOL
EXTEND PARENT LOOP
VCS Project NO. 2548185
1000 RHODE ISLAND AVE., ORANGE CITY
VOLUSIA COUNTY, FLORIDA 32763

ARCHENGR OF RECORD: Allen C. Lane, P.E.	
DESIGNED BY: BCB	DRAWN BY: ZA
ISSUE DATE: 02.07.25	AE PROJECT NUMBER: 2501359
SHEET TITLE: GENERAL NOTES AND DETAILS	
DRAWING NO.: C500	

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH CODES AND LOCAL STANDARDS.
2. CONTRACTOR SHALL CALL ALL UTILITIES TO MARK EXISTING UNDERGROUND LINES PRIOR TO START OF ANY AND ALL SITE WORK.
3. THE DRAWINGS ARE DIAGRAMMATIC AND THE OMISSION OF AN ITEM NECESSARY FOR THE PROPER FUNCTIONING OF THE SYSTEM DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THAT ITEM.
4. NOTIFY CIVIL/ ENGINEER OF ANY IN FIELD CONFLICTS WITH DRAWINGS PRIOR TO PURCHASING EQUIPMENT AND PRIOR TO ANY DIGGING.
5. UNDERGROUND CONDUIT IS TO BE A MINIMUM OF 24" BELOW GRADE. ALL EXISTING UTILITIES SHALL GOVERN AND NEW WORK IS TO COORDINATE AND AVOID UTILITY.
6. METAL SURFACES ARE TO BE GROUNDED.
7. SHADED LINE-TYPE INDICATES EXISTING AND HIGHLIGHTED LINE

ABBREVIATIONS

MARK	DESCRIPTION
ABV	ABOVE
AFF	TYPE INDICATES NEW WORK TO BE DONE. ABOVE FINISHED FLOOR
ACL	ACROSS THE LINE
AC	ALTERNATING CURRENT
A	AMPERE
AMP	AMPERE
AIC	AMPERES INTERRUPTING CAPACITY
BR	BRANCH
BKR	BREAKER
CAB	CABINET
C.B.	CIRCUIT BREAKER
CCT	CIRCUIT
C	CONDUIT
CONT	CONTINUOUS
CP	CONTROL PANEL
Cu	COPPER
CT	CURRENT TRANSFORMER
Hz	HERTZ (CYCLES/SECOND)
DED	DEDICATED CIRCUIT
DS	DISCONNECT SWITCH
ELEC	ELECTRIC
ETR	EXISTING TO REMAIN
EQ	EQUIPMENT
EX	EXISTING
FUT	FUTURE
GRD, G	GROUND
GFI	GROUND FAULT INTERRUPTER
HV	HIGH VOLTAGE
IC	INTERRUPTING CAPACITY
kW	KILOWATT
kVA	KILOVOLT-AMPERE
KO	KNOCKOUT
LED	LIGHT EMITTING DIODE
LTG	LIGHTING
LV	LOW VOLTAGE
MFR	MANUFACTURER
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NC	NORMALLY CLOSED
NO	NORMALLY OPENED
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OCPD	OVERCURRENT PROTECTION DEVICE
PNL	PANEL
PH	PHASE
PWR	POWER
PB	PULL BOX
RT	RAINTIGHT
RECEP	RECEPTACLE
RC	REMOTE CONTROL
R	RELOCATED
SEC	SECONDARY
SP	SINGLE POLE
SPD	SURGE PROTECTION DEVICE
SPEC	SPECIFICATION
SS	STAINLESS STEEL
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMPERE
WT	WATERTIGHT
W	WATT
WP	WEATHERPROOF

ELECTRICAL SYMBOL LEGEND

SYMBOL	DESCRIPTION
	EXISTING LUMINAIRE AND POLE - SQUARES INDICATE NUMBER OF LUMINAIRES
	NEW LUMINAIRE AND POLE - SQUARES INDICATE NUMBER OF LUMINAIRES
	NEW LUMINAIRE ON EXISTING POLE-SQUARES INDICATE NUMBER OF LUMINAIRES
PB	IN-GRADE JUNCTION BOX
J	METAL JUNCTION BOX
	CONDUIT - SOLID LINE INDICATES EQUIPMENT ON COMMON CIRCUIT AND/OR CONTROLLED BY COMMON SWITCH. EACH CIRCUIT SHALL CONSIST OF A PHASE CONDUCTOR, NEUTRAL AND GROUND. ELECTRICAL CONTRACTOR SHALL PROVIDE NECESSARY CONNECTIONS FOR A FULLY OPERABLE SYSTEM.
	UNDERGROUND CONDUIT AND CONDUCTOR.
	CIRCUIT HOMERUN.

ELECTRICAL DRAWING INDEX

SHEET	DESCRIPTION
E001	ELECTRICAL GENERAL NOTES
E100	ELECTRICAL DEMOLITION SITE PLAN
E101	ELECTRICAL CONSTRUCTION PLAN
E200	PHOTOMETRIC SITE PLAN
E300	ELECTRICAL SCHEDULES & DETAILS

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3/05/2025
GREGORY TAYLOR, P.E.
FL. REG. No. 77811

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UNIVERSITY HIGH SCHOOL
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VCS Project NO. 2548185
1000 W. RHODE ISLAND AVE., ORANGE CITY FL 32763

ARCHENGR OF RECORD
Gregory D. Taylor, P.E.

DESIGNED BY	DRAWN BY
GT	EP
ISSUE DATE	AE PROJECT NUMBER
JAN. 2025	2400653

SHEET TITLE
ELECTRICAL GENERAL NOTES

DRAWING NO.
E001

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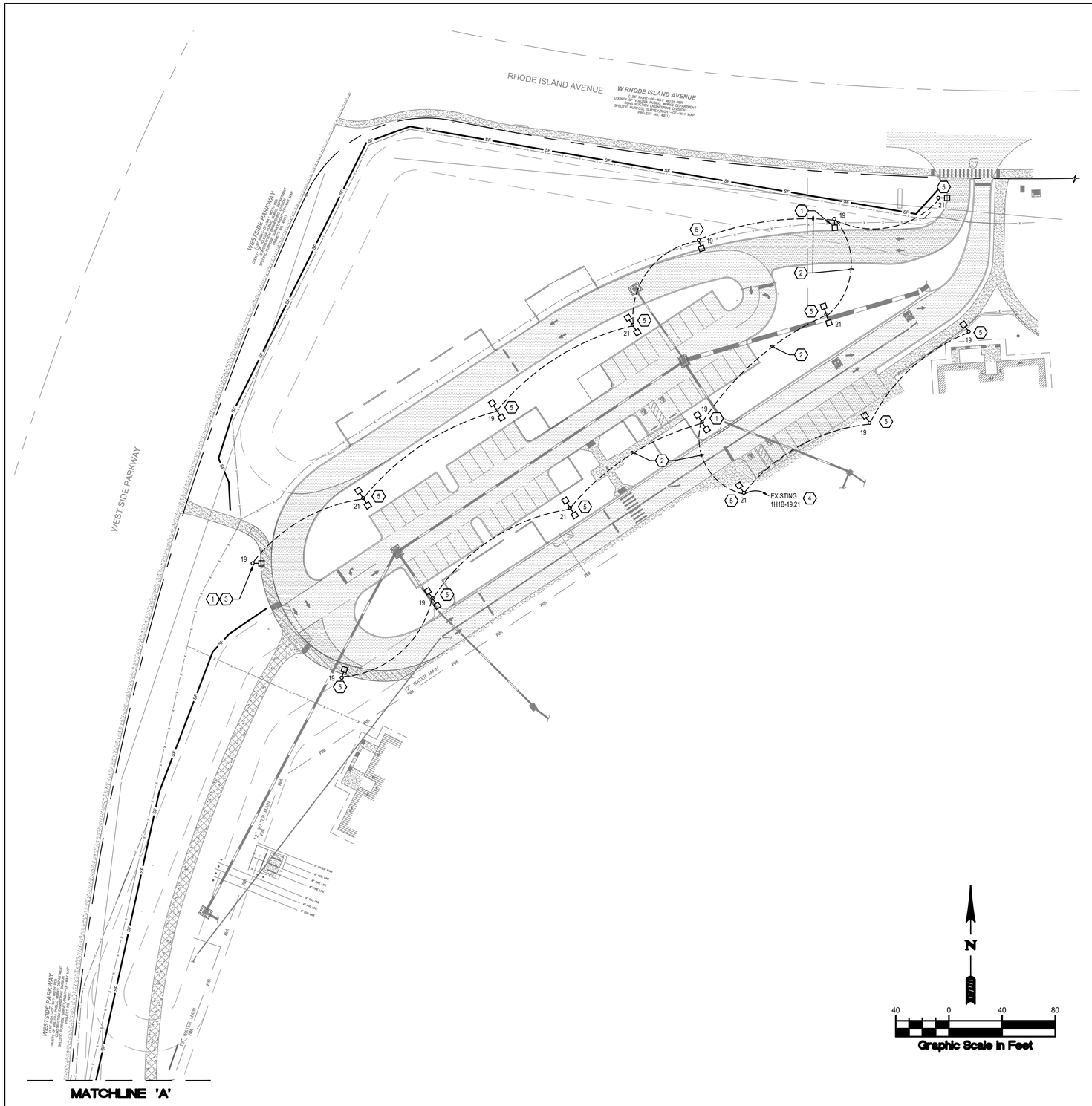

DEMOLITION GENERAL NOTES

1. DEVICES SHOWN ON THE DEMO PLAN ARE EXISTING. REFER TO SYMBOL LEGEND FOR DEVICE DESCRIPTION.
2. EXISTING CONDITIONS SHOWN ON THIS DRAWING ARE TAKEN FROM ORIGINAL DRAWINGS AND FIELD INVESTIGATION. ALL EXISTING CONDITIONS MUST BE VERIFIED PRIOR TO BID. FIELD CONDITIONS SHALL GOVERN.
3. THE DEMOLITION PLAN IS NOT INCLUSIVE OF ALL ELECTRICAL DEVICES WITHIN THE PROJECT AREA. IT IS INTENDED TO PROVIDE THE CONTRACTOR WITH A GENERAL KNOWLEDGE OF THE EXISTING CONDITIONS WITHIN THE PROJECT AREA. ANY DISCREPANCIES OR CONDITIONS NOT SHOWN ON THIS PLAN SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED DEMOLITION WHETHER SHOWN ON THE PLANS OR NOT.
4. EXISTING UNDERGROUND CONDUITS SERVING LIGHT POLES, THAT RUN THROUGH THE PROJECT AREA SHALL REMAIN ACTIVE DURING CONSTRUCTION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL CONDUITS, NEW OR EXISTING, WITHIN THE PROJECT AREA ARE PROPERLY SUPPORTED AND PROVIDED W/ BONDING BUSHINGS IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
5. ITEMS REMOVED UNDER THIS PROJECT SHALL BE DISPOSED OF OR TURNED OVER TO THE OWNER AT THE OWNER'S DISCRETION.
6. THIS CONTRACTOR SHALL PROVIDE ELECTRICAL FOR PHASING WORK AS REQUIRED OR DIRECTED BY THE CIVIL ENGINEER. TEMPORARY ELECTRICAL SERVICES (POWER, LIGHTING, ETC.)
7. EXISTING PANEL AND CIRCUITING SHALL BE TRACED AND VERIFIED BEFORE START OF WORK.
8. CONTRACTOR IS RESPONSIBLE FOR PROVIDING UTILITY LOCATES BEFORE COMMENCING WORK. COORDINATE ELECTRICAL CONDUIT ROUTING AND EQUIPMNET WITH OTHER UTILITIES.

KEY NOTES

1. REMOVE DIRECT-BURIED LIGHT POLE WITH PULL BOX AND LUMINAIRE. DEMO POLE WITH PULL BOX AND TURN LUMINAIRE OVER TO OWNER
2. REMOVE CONDUCTORS. REMOVE CONDUIT BELOW PROPOSED ROADWAY; CAP AND ABANDON CONDUIT BELOW GRADE IN LANDSCAPE AREAS.
3. REPLACE LIGHT POLE WITH 13"X24" IN-GRADE JUNCTION BOX AND RECONNECT CONDUCTORS - SEE CONSTRUCTION PLAN KEYNOTE 3.
4. EXISTING MULTIWIRE BRANCH CIRCUIT VIA EXISTING LIGHTING CONTACTORS SUCH THAT ONE CIRCUIT IS ON FROM DUSK TO DAWN AND THE OTHER CIRCUIT IS ON AT DUSK AND TURNS OFF AT A PRESET TIME. SEE CONSTRUCTION PLAN KEYNOTE 4.
5. REMOVE LUMINAIRE(S) AND TURN OVER TO OWNER. POLE TO REMAIN FOR INSTALLATION OF NEW LUMINAIRE(S).

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3/05/2025

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1000 W. RHODE ISLAND AVE., ORANGE CITY FL 32763

ARCHENGR OF RECORD
Gregory D. Taylor, P.E.

DESIGNED BY	DRAWN BY
GT	EP
ISSUE DATE	AE PROJECT NUMBER
JAN. 2025	2400653

SHEET TITLE
ELECTRICAL DEMOLITION PLAN

DRAWING NO.
E100

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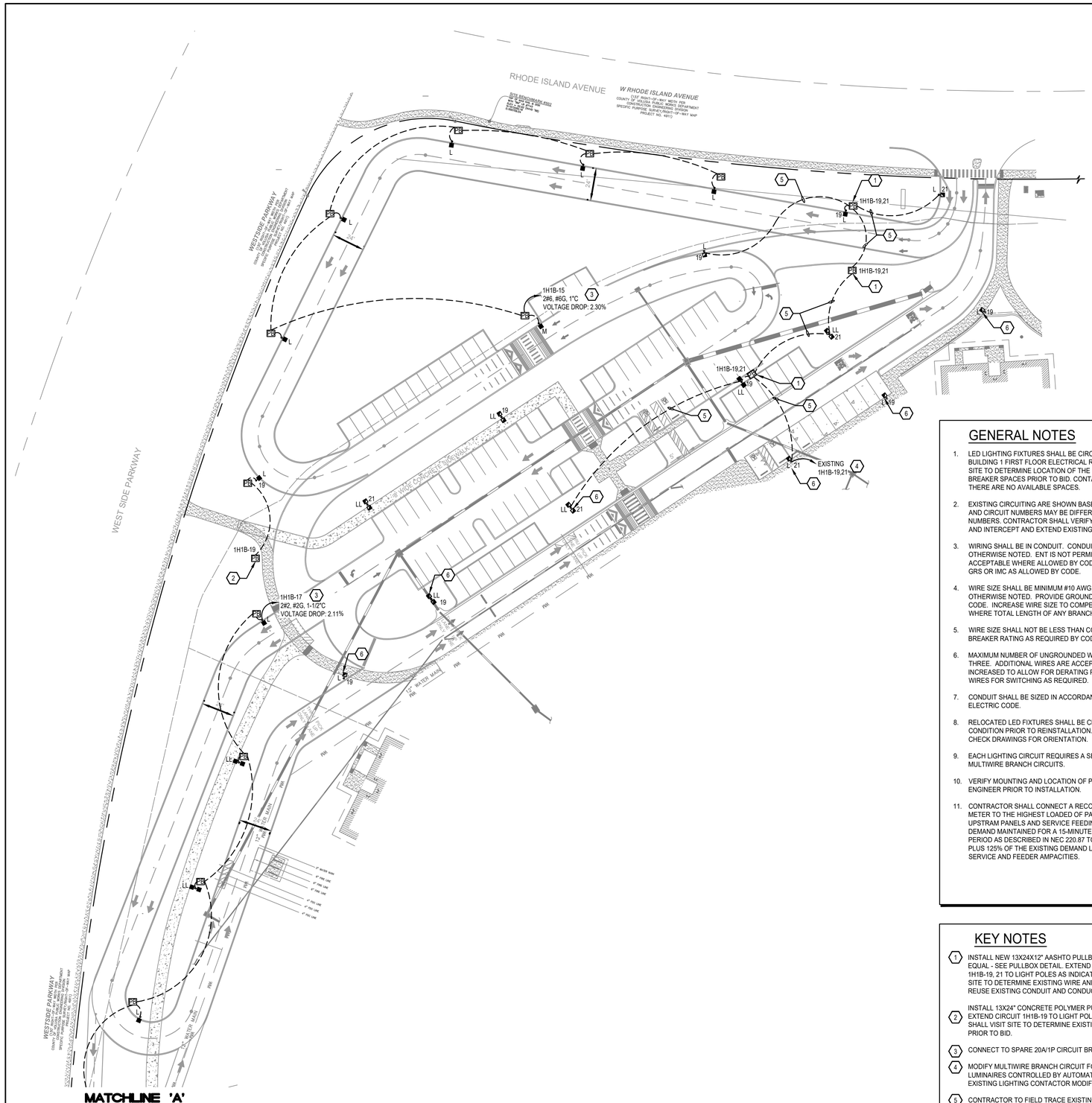

GENERAL NOTES

1. LED LIGHTING FIXTURES SHALL BE CIRCUITED TO PANEL '1H1B' IN BUILDING 1 FIRST FLOOR ELECTRICAL ROOM. CONTRACTOR SHALL VISIT SITE TO DETERMINE LOCATION OF THE PANEL AND AVAILABLE CIRCUIT BREAKER SPACES PRIOR TO BID. CONTACT ENGINEER OF RECORD IF THERE ARE NO AVAILABLE SPACES.
2. EXISTING CIRCUITING ARE SHOWN BASED ON AS-BUILTS AND ROUTING AND CIRCUIT NUMBERS MAY BE DIFFERENT THAN EXISTING CIRCUIT NUMBERS. CONTRACTOR SHALL VERIFY ACTUAL CIRCUITS IN THE FIELD AND INTERCEPT AND EXTEND EXISTING CONDUIT AND ROUTING.
3. WIRING SHALL BE IN CONDUIT. CONDUIT SIZE IS 3/4" MINIMUM UNLESS OTHERWISE NOTED. ENT IS NOT PERMITTED. SCHEDULE 40 PVC IS ACCEPTABLE WHERE ALLOWED BY CODE. CONTRACTOR MAY USE EMT, GRS OR IMC AS ALLOWED BY CODE.
4. WIRE SIZE SHALL BE MINIMUM #10 AWG, THWN SOLID COPPER UNLESS OTHERWISE NOTED. PROVIDE GROUND WIRE WHERE REQUIRED BY CODE. INCREASE WIRE SIZE TO COMPENSATE FOR VOLTAGE DROP WHERE TOTAL LENGTH OF ANY BRANCH EXCEEDS 100 FEET.
5. WIRE SIZE SHALL NOT BE LESS THAN CORRESPONDING CIRCUIT BREAKER RATING AS REQUIRED BY CODE.
6. MAXIMUM NUMBER OF UNGROUNDED WIRES IN ANY CONDUIT SHALL BE THREE. ADDITIONAL WIRES ARE ACCEPTABLE IF WIRE SIZE IS INCREASED TO ALLOW FOR DERATING PER CODE. PROVIDE ADDITIONAL WIRES FOR SWITCHING AS REQUIRED.
7. CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
8. RELOCATED LED FIXTURES SHALL BE CLEANED AND MADE TO AS NEW CONDITION PRIOR TO REINSTALLATION. SECURELY MOUNTED AND CHECK DRAWINGS FOR ORIENTATION.
9. EACH LIGHTING CIRCUIT REQUIRES A SEPARATE NEUTRAL - NO MULTIWIRE BRANCH CIRCUITS.
10. VERIFY MOUNTING AND LOCATION OF POLE FIXTURES WITH CIVIL ENGINEER PRIOR TO INSTALLATION.
11. CONTRACTOR SHALL CONNECT A RECORDING AMMETER OR POWER METER TO THE HIGHEST LOADED OF PANEL '1H1B' PHASE AND THE UPSTRAM PANELS AND SERVICE FEEDING IT TO MEASURE THE MAXIMUM DEMAND MAINTAINED FOR A 15-MINUTE INTERVAL DURING A 30-DAY PERIOD AS DESCRIBED IN NEC 220.87 TO ENSURE THAT THE NEW LOAD PLUS 125% OF THE EXISTING DEMAND LOAD DOES NOT EXCEED THE SERVICE AND FEEDER AMPACITIES.

KEY NOTES

1. INSTALL NEW 13X24X12" AASHTO PULLBOX - QUAZITE PG1324Z11929 OR EQUAL - SEE PULLBOX DETAIL. EXTEND AND RECONNECT CIRCUITS 1H1B-19, 21 TO LIGHT POLES AS INDICATED. CONTRACTOR SHALL VISIT SITE TO DETERMINE EXISTING WIRE AND CONDUIT SIZE PRIOR TO BID. REUSE EXISTING CONDUIT AND CONDUCTOR AS MUCH AS POSSIBLE.
2. INSTALL 13X24" CONCRETE POLYMER PULLBOX - SEE PULLBOX DETAIL. EXTEND CIRCUIT 1H1B-19 TO LIGHT POLE AS INDICATED. CONTRACTOR SHALL VISIT SITE TO DETERMINE EXISTING WIRE AND CONDUIT SIZE PRIOR TO BID.
3. CONNECT TO SPARE 20A/1P CIRCUIT BREAKER IN PANEL '1H1B'.
4. MODIFY MULTIWIRE BRANCH CIRCUIT FOR NEW DUAL-LEVEL DIMMABLE LUMINAIRES CONTROLLED BY AUTOMATIC OCCUPANCY SENSORS - SEE EXISTING LIGHTING CONTACTOR MODIFICATION DETAIL.
5. CONTRACTOR TO FIELD TRACE EXISTING UNDERGROUND CONDUIT AND CONDUCTOR. EXTEND WITH NEW CONDUIT AND CONDUCTOR TO EXISTING LIGHT POLES OR NEW PULL BOXES SHOWN ON DRAWING.
6. EXISTING LIGHT POLE FIXTURE SHALL REMAIN IN SERVICE DURING CONSTRUCTION.

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N

40 0 40 80

Graphic Scale in Feet

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01/09/2026

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EXTEND PARENT LOOP
VCS Project NO. 2548185
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ARCH/ENGR OF RECORD: Gregory D. Taylor, P.E.

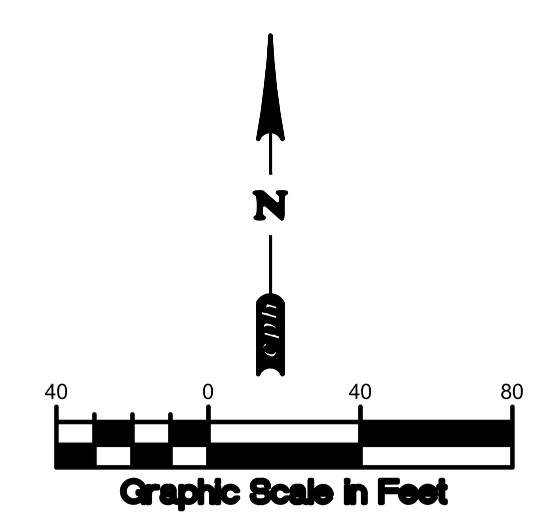
DESIGNED BY	DRAWN BY
GT	EP
ISSUE DATE	AE PROJECT NUMBER
JAN. 2025	2400653

SHEET TITLE: ELECTRICAL CONSTRUCTION PLAN

DRAWING NO. E101

ILLUMINANCE (FC)					
Area	Avg	Max	Min	Avg/Min	Max/Min
Back Row	3.17	8.3	0.8	4.0	10.4
Bus Loop - Inbound	3.70	9.1	1.3	2.9	7.0
Bus Loop - Outbound	4.48	10.8	1.4	3.2	7.7
Extended Pickup Loop	2.86	7.8	0.8	3.6	9.8
Front row	3.69	9.9	1.2	3.1	8.3
Middle row	3.64	9.6	2.0	1.8	4.8
New Road	3.39	6.7	1.4	2.4	4.8
Xwalk - Back Row	2.30	2.4	2.1	1.1	1.1
Xwalk - Front Row	2.16	2.9	1.5	1.4	1.9
Xwalk - Middle Row	1.56	1.6	1.5	1.0	1.1

Luminaire Schedule						
Qty	Label	Arrangement	LLF	Lumens	Watts	Filename
1	M	Single	1.000	10504	72.216	a17-4t70_70w_5000k.ies
16	LL	Back-Back	1.000	22014	149.362	a17-4t150_150w_5000k.ies
16	L	Single	1.000	22014	149.362	a17-4t150_150w_5000k.ies



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Building Better Communities Together
1117 East Robinson Street
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Plans Prepared By:
CPH, LLC
A Full Service A & E Firm
State of Florida Licenses:
Engineer No. 3215
Surveyor No. LB7143
Architect. No. AA26000926
Landscape No. LC000298

GREGORY D. TAYLOR
LICENSE
No. 77811
STATE OF FLORIDA
PROFESSIONAL ENGINEER
01/09/2026
GREGORY TAYLOR, P.E.
FL. REG. No. 77811

This item has been electronically signed and sealed by Gregory D. Taylor on the date adjacent to the seal using a SHA authentication code. printed. Copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

REVISIONS

DOCUMENT HISTORY

1/6/2026	CONFORMED SET

UNIVERSITY HIGH SCHOOL
EXTEND PARENT LOOP
VCS Project NO. 2548185
1000 W. RHODE ISLAND AVE., ORANGE CITY FL 32763

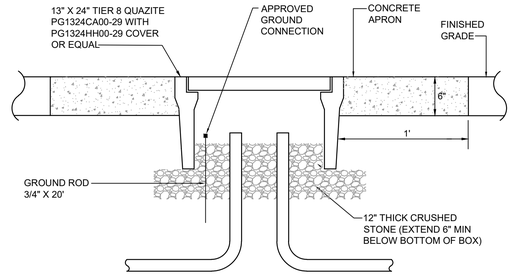
ARCH/ENGR OF RECORD
Gregory D. Taylor, P.E.

DESIGNED BY	DRAWN BY
GT	EP
ISSUE DATE	AE PROJECT NUMBER
JAN. 2025	2400653

SHEET TITLE
PHOTOMETRIC SITE PLAN

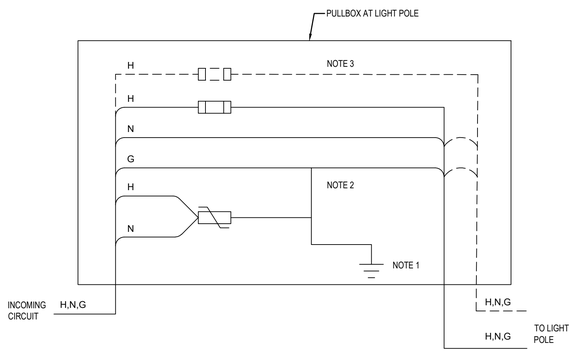
DRAWING NO.
E200

LIGHTING SCHEDULE							
TAG	DESCRIPTION	LUMINAIRE				POLE	
		WATTS	VOLTAGE	LUMENS	EPA (SQ. FT.)	MH	EPA CAPACITY
L	TYPE IV DISTRIBUTION, FACTORY-INSTALLED SPLIPFITTER, 5000K, BRONZE, 120-277V, 0-10V DIMMING, MICROWAVE MOTION SENSOR/PHOTOCELL, 37' DIRECT-BURIED TAPERED CONCRETE POLE LUMINAIRE: RAB LIGHTING A17-4T150SF/MVS POLE: SEMINOLE POLE INC SP3730TI	150	277	21378	0.60	30'	15.9 SQ. FT.@140MPH
LL	DUAL-LUMINAIRE (2@180) SAME AS TAG "L"	2@150	277	2@21378	1.28	30'	15.9 SQ. FT. @140MPH
M	TYPE IV DISTRIBUTION, FACTORY-INSTALLED SPLIPFITTER, 5000K, BRONZE, 120-277V, 0-10V DIMMING, MICROWAVE MOTION SENSOR/PHOTOCELL, 37' DIRECT-BURIED TAPERED CONCRETE POLE LUMINAIRE: RAB LIGHTING A17-4T70SF/MVS POLE: SEMINOLE POLE INC SP3730TI	70	277	10055	0.60	30'	15.9 SQ. FT.@140MPH



PULLBOX DETAIL

N.T.S.



LIGHT POLE PULL BOX WIRING DIAGRAM

NOTES:

1. 5/8"X10' COPPER CLAD GROUND ROD AND #6 BARE CU.
2. #6 BARE CU. TO FIXTURE AND SURGE SUPPRESSOR.
3. DASHED LINES INDICATE WIRING FOR SECOND LUMINAIRE ON POLE IF PRESENT.

LEGEND

SURGE SUPPRESSOR

FUSE

H,N,G HOT, NEUTRAL, GROUND

Name: 1H1B

Status: EXISTING
Project Name: UNIVERSITY HS
Project Number: 2400653
Fed From: 1HDP1B

MAIN LUGS: 400 AMPS
VOLTAGE: 480Y/277V
PHASE: 3
WIRE: 4

ENCLOSURE: NEMA 1
AIC: 10 K AMPS
MOUNTING: SURFACE
MANUFACTURER: SQUARE D

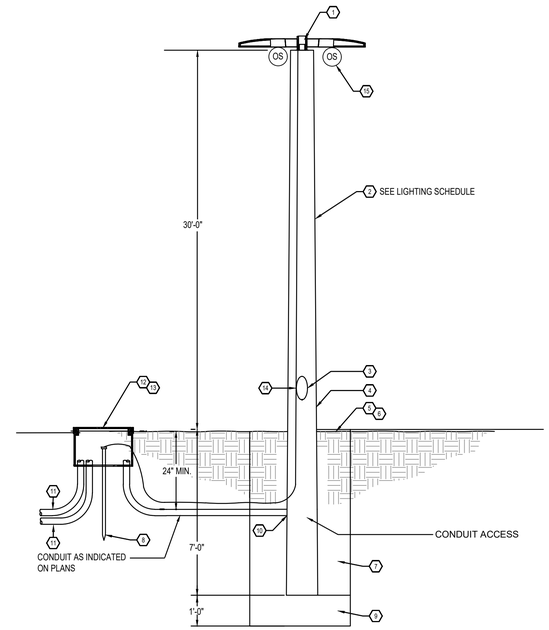
NOTES	CKT #	CIRCUIT DESCRIPTION	CODE	LOAD/PHASE (KVA) A	B	C	CIRCUIT BREAKER TRIP	POLES	POLES	TRIP	LOAD/PHASE (KVA) A	B	C	CODE	CIRCUIT DESCRIPTION	CKT #	NOTES
	1	GENERAL LIGHTING	L	4.5			20	1	1	20	4.5			L	GENERAL LIGHTING	2	
	3	GENERAL LIGHTING	L		4.5		20	1	1	20		4.5		L	GENERAL LIGHTING	4	
	5	GENERAL LIGHTING	L			4.5	20	1	1	20			0.0		SPARE	6	
	7	GENERAL LIGHTING	L	4.5			20	1	1	20	0.0				SPARE	8	
	9	SPARE			0.0		20	1	1	20		0.0			SPARE	10	
	11	SPARE				0.0	20	1	1	20			0.0		SPARE	12	
	13	SPARE		0.0			20	1	1	20	0.0				SPARE	14	
1	15	**PARENT LOOP LIGHTING**	L		**1.1**		20	1	1	20		0.0			SPARE	16	
1	17	**PARENT LOOP LIGHTING**	L			**3.2**	20	1	1	20			0.0		SPARE	18	
1	19	PARKING LOT LIGHTING	L	**1.8**			20	1	1	20	0.0				SPARE	20	
1	21	PARKING LOT LIGHTING	L		**1.2**		20	1	1	20		0.0			SPARE	22	
	23	SCHOOL SIGN	L			0.5	20	1	1	20			0.0		SPARE	24	
	25	SPACE					-	1	3	30	0.0				SURGE SUPP.	26	
	27	SPACE					-	1				0.0				28	
	29	SPACE					-	1					0.0			30	
				10.8	**6.8**	**8.2**					4.5	4.5	0.0				

NOTE 1. HIGHLIGHTED INFORMATION DENOTES NEW LOADS.

	CONN. LOAD (KVA)	ADJUST. FACTOR	DEMAND FACTOR	DEMAND LOAD (KVA)
LIGHTING (L)	34.8	1.00	1.25	43.5
RECEPTACLES (R)	0.0	---	NEC	0.0
LARGEST MOTOR (M)	0.0	1.00	1.25	0.0
KITCHEN (K)	0.0	1.00	1.00	0.0

PER NEC ARTICLE 220

TOTAL CONNECTED LOAD: 34.8 KVA
TOTAL DEMAND LOAD: 43.5 KVA
DEMAND AMPS: 52.3 AMPS



NOTE: POLE IS TO MEET LOCAL WIND LOADS. INSTALLATION MAY REQUIRE STRUCTURAL ENGINEER APPROVAL.

POLE DETAIL

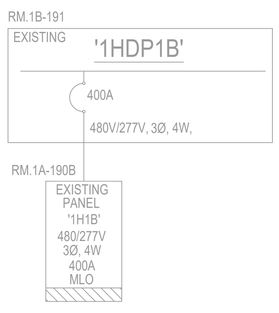
N.T.S.

GENERAL POLE NOTES:

1. PROVIDE SHOP DRAWINGS AND CALCULATIONS FOR ALL EXTERIOR POLE MOUNTED FIXTURES WITH SEAL AND SIGNATURE OF REGISTERED PROFESSIONAL ENGINEER VERIFYING THAT THE FOUNDATION AND POLE/FIXTURE MEETS OR EXCEEDS FLORIDA BUILDING CODE AND ASSEMBLY MEETS A58.1. THE ASSEMBLY SHALL BE CAPABLE OF WITHSTANDING WINDLOADS IN ACCORDANCE WITH ASCE 7-10. DESIGN WIND VELOCITY IS SHOWN IN LIGHTING SCHEDULE.
2. #10 THWN-2 WIRE FROM PULL BOX TO LUMINAIRE. CONNECT TO CIRCUIT CONDUCTORS WITH WATERPROOF SPLICE OR CONNECTOR.

CONCRETE POLE NOTES :

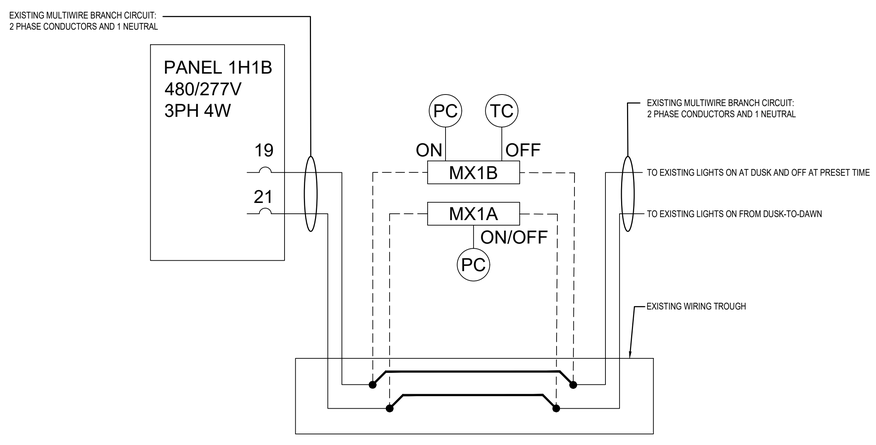
1. 2 - 3/8" TENON (VERIFY) WITH PROVISION FOR WIRING. COORDINATE WITH POLE AND LUMINAIRE MANUFACTURER.
2. SQUARE TAPERED CONCRETE, POLE.
3. WIRING HANDHOLE - MINIMUM 4" x 7" WITH ALUMINUM COVER AND STAINLESS STEEL SCREWS.
4. TERMINATE CONDUIT INTERNALLY ADJACENT TO HANDHOLE.
5. SLOPE TO SURROUNDING FINISHED GRADE.
6. COMPACTED BACKFILL EQUAL TO EXISTING SURROUNDING AREA.
7. CONTRACTOR SHALL AUGER HOLE AT POLE LOCATION AS NOT TO DISTURB THE SURROUNDING EARTH. AUGER HOLE TO POLE MANUFACTURER RECOMMENDED DEPTH. FILL IN HOLE WITH EARTH AND COMPACT.
8. 5/8" X 10' COPPERWELD GROUND ROD AND #6 BARE CU. TO FIXTURE AND SURGE SUPPRESSOR.
9. 48" x 12" CONCRETE SETTING BED AT BOTTOM OF AUGERED HOLE.
10. MINIMUM 4" x 7" CONDUIT ENTRANCE.
11. CONDUIT AND WIRE IN AND OUT OF PULL BOX AS REQUIRED FOR CIRCUIT.
12. PULLBOX AT EACH POLE WITH FUSING AND GROUND ROD AND SURGE SUPPRESSOR WITHIN.
13. SEE LIGHT POLE PULL BOX WIRING DIAGRAM.
14. #6 BARE CU. TO FIXTURE AND SURGE SUPPRESSOR.
15. OCCUPANCY SENSOR TO REDUCE LIGHTING DURING NON-OCCUPIED TIMES AFTER 2 HOURS IN ACCORDANCE WITH 2023 FBC ENERGY CONSERVATION C405.2.7.3.



ONE-LINE DIAGRAM

N.T.S.

NOTE: GRAY INDICATES EXISTING



EXISTING LIGHTING CONTACTOR MODIFICATION DETAIL

N.T.S.

NOTES:

1. DASHED LINES INDICATE WIRING TO BE REMOVED. BOLD LINES INDICATE NEW JUMPERS SAME SIZE AS EXISTING CONDUCTORS.
2. EXISTING LIGHTING CONTACTORS MX1A AND MX1B, PHOTOCELLS, TIME CLOCK, AND OTHER CIRCUITS TO REMAIN.

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State of Florida Licenses:
Engineer No. 3215
Surveyor No. LB7143
Architect. No. AA26000926
Landscape No. LC000298

GREGORY D. TAYLOR LICENSE No. 77811 STATE OF FLORIDA PROFESSIONAL ENGINEER
3/05/2025
GREGORY TAYLOR, P.E.
FL. REG. No. 77811

REVISIONS

DOCUMENT HISTORY	
CONFORMED SET	
1/6/2026	

UNIVERSITY HIGH SCHOOL
EXTEND PARENT LOOP
VCS Project NO. 2548185
1000 W. RHODE ISLAND AVE., ORANGE CITY FL 32763

This item has been electronically signed and sealed by Gregory D. Taylor on the date adjacent to the seal using a SHA authentication code. printed. Copies of this document are not considered signed and sealed and the SHA authentication code must be verified on any electronic copies.

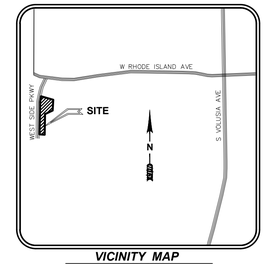
ARCHENGR OF RECORD
Gregory D. Taylor, P.E.

DESIGNED BY	DRAWN BY
GT	EP
ISSUE DATE	AE PROJECT NUMBER
JAN. 2025	2400653

SHEET TITLE
ELECTRICAL SCHEDULES AND DETAILS

DRAWING NO.
E300

BOUNDARY & TOPOGRAPHIC SURVEY
FOR
VOLUSIA COUNTY SCHOOLS
AT
UNIVERSITY HIGH SCHOOL
1000 W RHODE ISLAND AVENUE
ORANGE CITY, FLORIDA
LYING IN
SECTION 15-TOWNSHIP 18 SOUTH-RANGE 30 EAST
VOLUSIA COUNTY, FLORIDA



VICINITY MAP
NOT TO SCALE

Legal Description:

THE NORTH AND WEST LINES OF UNIVERSITY HIGH SCHOOL LOCATED AT 1000 W RHODE ISLAND AVENUE PER OFFICIAL RECORDS BOOK 5193, PAGE 4174 OF THE PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA.

LESS:

RIGHT-OF-WAY REALIGNMENT OF WESTSIDE PARKWAY AND W RHODE ISLAND AVENUE PER COUNTY OF VOLUSIA PUBLIC WORKS DEPARTMENT CONSTRUCTION ENGINEERING DIVISION SPECIFIC PURPOSE SURVEY/RIGHT-OF-WAY MAP PROJECT NO. 4911.

Topographic Survey Area:

A PORTION OF UNIVERSITY HIGH SCHOOL LOCATED AT 1000 W RHODE ISLAND AVENUE AS DESIGNATED BY THE CLIENT.

Survey Notes:

1. COPIES OF THIS SURVEY ARE NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
2. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
3. THIS SURVEY IS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88)

   THE SITE BENCHMARKS FOR THIS TOPOGRAPHIC SURVEY ARE DISPLAYED ON THE RESPECTIVE SURVEY FILE. THESE BENCHMARKS ARE BASED ON A CLOSED VERTICAL CONTROL LOOP HAVING AN ACTUAL ERROR OF CLOSURE OF 0.010' WHICH MEETS THE ALLOWABLE CLOSURE OF 0.043'. THIS FIELDWORK WAS PERFORMED USING A TOPCON LEVEL MODEL # DL-502 AND REFERENCES THE FOLLOWING PUBLISHED BENCHMARK AS ESTABLISHED BY THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD '88) AND ALL VERTICAL INFORMATION INCLUDING SPOT ELEVATIONS, NOTATIONS AND THE CONTOUR LINES DERIVED THEREFROM ARE BASED ON AND MATCHED TO A VERTICAL CONTROL BENCHMARK SUPPLIED BY NGS DATA SHEETS PUBLISHED AT WWW.LABINS.ORG AS FOLLOWS:

   a) DESIGNATION #ORANGE CITY RESET, PID #AK0077
      (NAVD '88) ELEVATION = 54.14

   SITE BENCHMARKS ARE AS SHOWN ON SURVEY SHEET 2 AND 3 OF 3.
4. THIS SURVEY IS NOT VALID WITHOUT SURVEY SHEETS 1 THROUGH 3 OF 3.
5. THE LAST DAY FIELD WORK WAS PERFORMED WAS 11/26/2024.
6. HAVING CONSULTED THE NATIONAL FLOOD INSURANCE PROGRAM, FLOOD INSURANCE RATE MAP (FIRM) NUMBER 12127C0615J, COMMUNITY PANEL NO. 120633-0615-J, CITY OF ORANGE CITY, REVISED DATE FEBRUARY 19, 2014, THE SUBJECT PROPERTY APPEARS TO LIE IN ZONE X, WHICH ARE AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN (NAVD '88), THIS DETERMINATION WAS BASED ON A GRAPHIC INTERPOLATION OF SAID MAP AND NOT ON ACTUAL FIELD MEASUREMENTS.
7. HORIZONTAL WELL-IDENTIFIED FEATURES IN THIS SURVEY AND MAP HAVE BEEN MEASURED TO AN ESTIMATED HORIZONTAL POSITIONAL ACCURACY OF 0.05 (FT). THE EQUIPMENT USED TO VERIFY THE HORIZONTAL CONTROL ON THE SUBJECT SURVEY WAS A TOPCON GPS HIPER V. THE EQUIPMENT USED TO LOCATE THE FEATURES WAS A LEICA SCANSTATION P40 AND A TOPCON GPS HIPER V.
8. NO UNDERGROUND UTILITIES, FOUNDATIONS OR IMPROVEMENTS, IF ANY, HAVE BEEN LOCATED EXCEPT AS SHOWN.
9. THIS SURVEY DOES NOT IDENTIFY THE LIMITS OR EXTENT OF POTENTIAL JURISDICTIONAL WETLAND BOUNDARIES.
10. FENCES AND WALLS EXISTING ON, OVER OR ADJACENT TO SUBJECT PROPERTY, ARE DISPLAYED HEREON; OWNERSHIP WHETHER SINGULAR OR JOINT WAS NOT DETERMINED BY THIS SURVEY.
11. VERTICAL FEATURE ACCURACY: "ELEVATIONS OF WELL-IDENTIFIED FEATURES CONTAINED IN THIS SURVEY AND MAP HAVE BEEN MEASURED TO AN ESTIMATED VERTICAL POSITIONAL ACCURACY OF 0.05 (FT)."
12. STATE PLANE INFORMATION SHOWN HEREON IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (1990) USING CONTROL POINTS FROM THE NGS DATA SHEETS PUBLISHED AT WWW.LABINS.ORG AND THE FLORIDA DEPARTMENT OF TRANSPORTATION AND ARE AS FOLLOWS:

    FLORIDA EAST ZONE

    a) POINT NAME #91503015-1990 = N 1,664,032.489 FEET, E 567,784.365 FEET

    b) DESIGNATION # ORANGE CITY RESET, PID #AK0077 = N 1,675,761.24 FEET, E 558,756.72 FEET

    THE EQUIPMENT USED TO TRANSFER THE STATE PLANE INFORMATION FROM THE ABOVE REFERENCED CONTROL POINTS TO THE SUBJECT SURVEY WAS A TOPCON GPS HIPER V.
13. DIMENSIONS ARE SHOWN RELATIVE TO UNITED STATES STANDARD FEET AND DECIMALS THEREOF, UNLESS THE OBJECT SHOWN IS COMMONLY IDENTIFIED IN INCHES, I.E. TREE DIAMETER, PIPE DIAMETER, ETC. TREES DEPICTED ARE COMMON NAMES AND MEASURED AND LABELED AS DIAMETER AT BREAST HEIGHT IN INCHES.
14. THE UNDERGROUND UTILITIES DEPICTED BY PIPE LINETYPES ARE APPROXIMATE IN NATURE BASED UPON A VISUAL INSPECTION OF THE MANHOLE, GRATE, ETC. OF EACH FACILITY. EXISTING PIPES WERE NOT LAMPED OR REMOTELY VIEWED FOR DIRECTION, OBSTRUCTIONS OR CONNECTIVITY.
15. THE PURPOSE OF THIS SURVEY IS TO DEPICT COLLECTED TOPOGRAPHIC DATA ON A PORTION OF THE SITE. TOPOGRAPHIC LIMITS WERE PROVIDED BY THE CLIENT.
16. BEARINGS SHOWN HEREON ARE RELATIVE TO THE WEST RIGHT-OF-WAY LINE SHOWN PER COUNTY OF VOLUSIA PUBLIC WORKS DEPARTMENT SPECIFIC PURPOSE SURVEY/RIGHT-OF-WAY MAP PROJECT NO. 4911, AS BEING S 00°14'17" W.

Abbreviation Legend:

(A)	– ACTUAL	MBX	– MAILBOX
A/C	– AIR CONDITIONER	MES	– MITERED END SECTION
ACSM	– AMERICAN CONGRESS ON SURVEYING & MAPPING	MH	– MANHOLE
ADA	– AMERICANS WITH DISABILITIES ACT	MLP	– METAL LIGHT POLE
ALTA	– AMERICAN LAND TITLE ASSOCIATION	MPH	– MILES PER HOUR
APPROX	– APPROXIMATE	MPP	– METAL POWER POLE
ARV	– AIR RELEASE VALVE	N/A	– NOT APPLICABLE
AVE	– AVENUE	NAVD	– NORTH AMERICAN VERTICAL DATUM
AVG	– AVERAGE	NAD	– NORTH AMERICAN DATUM
(BB)	– BEARING BASIS	NG	– NATURAL GROUND
BFP	– BACK FLOW PREVENTER	NGS	– NATIONAL GEODETIC SURVEY
BLK	– BLOCK	NGVD	– NATIONAL GEODETIC VERTICAL DATUM
BLDG	– BUILDING	N & D	– NAIL AND DISK
BLVD	– BOULEVARD	NO.	– NUMBER
BM	– BENCH MARK	NR	– NON-RADIAL
BOC	– BACK OF CURB	NSPS	– NATIONAL SOCIETY OF PROFESSIONAL SURVEYORS
BOW	– BACK OF WALK	NT	– NON-TANGENT
BSL	– BUILDING SETBACK LINE	NTS	– NOT TO SCALE
BWF	– BARBED WIRE FENCE	OD	– OUTSIDE DIAMETER
C-X	– DENOTES SHEET NUMBERING FOR ENGINEERING PLANS	ORB	– OFFICIAL RECORDS BOOK
(C)	– CALCULATED	OR	– OFFICIAL RECORDS
C	– CHORD	OUL	– OVERHEAD UTILITY LINES
CATV	– CABLE TELEVISION RISER	OTL	– OVERHEAD TRAFFIC LINES
CB	– CHORD BEARING	(P)	– PLAT
CBS	– CONCRETE BLOCK STRUCTURE	PB	– PLAT BOOK
C.C.R.	– CERTIFIED CORNER RECORD	PB GND	– PULL BOX GROUND
C&G	– CURB & GUTTER	PB UNK	– PULL BOX UNKNOWN
CI	– CATCH INLET	PC	– POINT OF CURVATURE
C/L	– CENTERLINE	PCC	– POINT OF COMPOUND CURVATURE
CLF	– CHAIN LINK FENCE	PCP	– PERMANENT CONTROL POINT
CM	– CONCRETE MONUMENT	PFF	– PROPOSED FINISHED FLOOR
CMP	– CORRUGATED METAL PIPE	PG	– PAGE
CO	– CLEANOUT	PGS	– PAGES
CONC	– CONCRETE	PI	– POINT OF INTERSECTION
COR	– CORNER	PIV	– POST INDICATOR VALVE
CRPP	– CORRUGATED PLASTIC PIPE	PK	– PARKER KAYLON
CUE	– COUNTY UTILITY EASEMENT	POB	– POINT OF BEGINNING
CVS	– CAN'T VERIFY SIZE	POC	– POINT OF COMMENCEMENT
CVS&T	– CAN'T VERIFY SIZE & TYPE	POL	– POINT ON LINE
CWS	– CROSSWALK SIGNAL	PP	– POWER POLE
Δ	– DELTA	PRC	– POINT OF REVERSE CURVATURE
(D)	– DESCRIPTION	PRM	– PERMANENT REFERENCE MONUMENT
DB	– DEED BOOK	PSM	– PROFESSIONAL SURVEYOR & MAPPER
DBH	– DIAMETER AT BREAST HEIGHT IN INCHES	PT	– POINT OF TANGENCY
DE	– DRAINAGE EASEMENT	PVC	– POLYVINYL CHLORIDE PIPE
DEPT	– DEPARTMENT	PVMT	– PAVEMENT
DIP	– DUCTILE IRON PIPE	R30E	– RANGE 30 EAST
DR	– DRIVE	R	– RADIUS
D/U	– DRAINAGE AND UTILITY EASEMENT	RAD	– RADIAL
(E)	– ENGINEERING PLAN	RCP	– REINFORCED CONCRETE PIPE
EJB	– ELECTRIC JUNCTION BOX	REC	– RECOVERED
EL	– UNDERGROUND ELECTRICAL LINES	REV	– REVISION
ELEC	– ELECTRIC	R/W	– RIGHT-OF-WAY
ELEV	– ELEVATION	RLS	– REGISTERED LAND SURVEYOR
ELLIP	– ELLIPTICAL	RP	– RADIUS POINT
EOI	– END OF INFORMATION	RWL	– UNDERGROUND RECLAIM WATER LINE
EOP	– EDGE OF PAVEMENT	RWM	– RECLAIMED WATER METER
FB	– FIELD BOOK	SE	– SPECIAL EASEMENT
FDC	– FIRE DEPARTMENT CONNECTION	SEC 15	– SECTION 15
FDOT	– FLORIDA DEPARTMENT OF TRANSPORTATION	SMH	– SANITARY SEWER MANHOLE
FF	– FINISH FLOOR	(SP)	– STATE PLANE
FGI	– FLAT GRATE INLET	SQ	– SQUARE
FGLP	– FIBERGLASS LIGHT POLE	SQ FT	– SQUARE FEET
FHYD	– FIRE HYDRANT	SRP	– SPIRAL RIB PIPE
FM	– FORCE MAIN	ST	– STREET
FND	– FOUND	STMH	– STORM DRAINAGE MANHOLE
FP&L	– FLORIDA POWER AND LIGHT	S/W	– SIDEWALK
FS	– FLORIDA STATUTES	TB	– TANGENT BEARING
(G)	– GRID (STATE PLAN)	T18S	– TOWNSHIP 18 SOUTH
GL	– UNDERGROUND GAS LINES	TELE	– TELEPHONE
GOV'T	– GOVERNMENT	TL	– OVERHEAD TRAFFIC SIGNAL LINES
GPR	– GROUND PENETRATING RADAR	TOB	– TOP OF BANK
GTMH	– GREASE TRAP MANHOLE	TOE	– TOE OF SLOPE
HDPE	– HIGH DENSITY POLYETHYLENE PIPE	TR	– TELEPHONE RISER
HWF	– HOG WIRE FENCE	TRANS	– TRANSFORMER
ID	– IDENTIFICATION	TSB	– TRAFFIC SIGNAL BOX
ICV	– IRRIGATION CONTROL VALVE	TSSP	– TRAFFIC SIGNAL SUPPORT POLE
INFO	– INFORMATION	TVL	– UNDERGROUND CABLE TV LINES
INV	– INVERT	(TYP)	– TYPICAL
IP	– IRON PIPE	UE	– UTILITY EASEMENT
IP&C	– IRON PIPE & CAP	UNK	– UNKNOWN
IR	– IRON ROD	UTL	– UNDERGROUND TELEPHONE LINES
IR&C	– IRON REBAR & CAP	W/	– WITH
IRR	– IRRIGATION	WIF	– WROUGHT IRON FENCE
L	– ARC LENGTH	WL	– UNDERGROUND WATER LINE
LB#	– LICENSED BUSINESS NUMBER	WLP	– WOOD LIGHT POLE
LP	– LIGHT POLE	WM	– WATER METER
(M)	– MEASURED	WP	– WORK PROGRAM
MAG	– MAGNETIC	WPF	– WOOD POST FENCE
MB	– MAP BOOK	WPP	– WOOD POWER POLE
		WV	– WATER VALVE

Symbol Legend:
NOT TO SCALE

- ARV – AIR RELEASE VALVE
- BORING HOLE LOCATION
- BRICK PAVERS
- CTV – CABLE TV RISER
- CENTRAL ANGLE
- CO – CLEAN OUT
- COMMUNICATION MANHOLE
- CONCRETE
- CONCRETE LIGHT POLE
- CONCRETE LIGHT POLE (DUAL)
- CONCRETE LIGHT POLE (TRIPLE)
- CONCRETE LIGHT POLE (QUAD)
- CONCRETE MITERED END SECTION
- CONCRETE PAVERS
- CONCRETE RIP RAP
- CONCRETE UTILITY POLE
- CTY RD – COUNTY ROAD SYMBOL
- CROSSWALK SIGNAL POLE
- DETECTABLE WARNING AREA
- DUAL SUPPORT SIGN
- ELECTRICAL MANHOLE
- EM – ELECTRIC METER
- EJB – ELECTRICAL JUNCTION BOX
- EO – ELECTRIC OUTLET
- ELECTRIC RISER
- FO – FIBER OPTIC MARKER
- FDC – FIRE DEPARTMENT CONNECTION
- FIRE HYDRANT
- FLOOD LIGHT
- FOUND CONCRETE MONUMENT (AS NOTED)
- FOUND IRON PIPE (AS NOTED)
- FOUND IRON REBAR (AS NOTED)
- FOUND/SET NAIL (AS NOTED)
- GARBAGE CAN
- GM – GAS MARKER
- GAS VALVE
- GT – GOPHER TORTOISE HOLE
- GRATE INLET
- GRAVEL/DIRT
- GT – GREASE TRAP MANHOLE
- GROUND LIGHT
- GUY ANCHOR
- HANDICAP PARKING SPACE
- INTERSTATE SYMBOL
- IRRIGATION CONTROL VALVE
- LIGHT POLE
- LIGHT POLE (DUAL)
- LIGHT POLE (TRIPLE)
- LIGHT POLE (QUAD)
- MAILBOX
- MW – MONITOR WELLS
- NAIL & DISC (AS NOTED)
- 2 – PARKING SPACES (2)
- PIV – POST INDICATOR VALVE
- PBX – PULL BOX (AS NOTED)
- REVISION NUMBER (3)
- RW – RECLAIMED WATER MARKER
- RWM – RECLAIMED WATER METER
- RECLAIMED WATER RISER
- RECLAIMED WATER VALVE
- ROOF DRAIN
- SANITARY SEWER MANHOLE
- SM – SANITARY SEWER MARKER
- SANITARY SEWER VALVE
- TITLE OR REPORT ITEM NUMBER
- SECTION CORNER
- 4" X 4" CM LB #7143
- 5/8" IR&C LB #7143
- SIGN
- SITE BENCH MARK
- STORM SEWER MANHOLE
- STRIPING (DIRECTIONAL)
- TELEPHONE CABLE RISER
- TELEPHONE MANHOLE
- TM – TELEPHONE LINE MARKER
- TJB – TELEPHONE JUNCTION BOX
- TR – TELEPHONE REPEATER
- TEST HOLE
- TSB – TRAFFIC SIGNAL BOX
- TRAFFIC SIGNAL SUPPORT POLE
- UNKNOWN MANHOLE
- UM – UNKNOWN UTILITY MARKER
- UNKNOWN RISER
- UNKNOWN VALVE
- UTILITY FLAG (AS NOTED)
- VENT (AS NOTED)
- WM – WATER METER
- WR – WATER RISER
- WS – WATER SERVICE
- WATER SPIGOT
- WS – WATER SPRINKLER
- WV – WATER VALVE
- WELL
- WETLAND FLAG
- WOOD UTILITY POLE
- WLM – WATER LINE MARKER
- WIRE HEIGHTS (SEE CHART)

Line Legend:
NOT TO SCALE

- 1 FOOT CONTOURS
- 5 FOOT CONTOURS
- ADJOINER PROPERTY LINES
- BARBED WIRE FENCE
- BROKEN LINE
- UC – BURIED CABLE
- UCTV – BURIED CABLE TELEVISION
- UE – BURIED ELECTRIC
- UFO – BURIED FIBER OPTICS
- UG – BURIED GAS
- URW – BURIED RECLAIMED WATER LINE
- SAN – BURIED SANITARY LINES
- FM – BURIED SANITARY SEWER FORCE MAIN LINE
- TC – BURIED TRAFFIC CONTROL
- UT – BURIED TELEPHONE LINE
- UW – BURIED WATER LINES
- CENTER LINE R/W
- CHAIN LINK FENCE
- EASEMENT LINES (EXISTING)
- EASEMENT LINES (PROPOSED)
- EOW – EDGE OF WATER LINES
- EXISTING DRAINAGE PIPES
- EXISTING DRAINAGE PIPES (TERMINUS & ANGLE UNKNOWN)
- FW – FIRE WATER MAIN LINES
- HW – HOT WATER SUPPLY LINES
- IRR – IRRIGATION LINES
- OTL – OVERHEAD TRAFFIC LINES
- OHU – OVERHEAD UTILITY LINES
- RAILROAD TRACKS
- RIGHT-OF-WAY LINES
- SECTION LINES
- STONE WALL LINES
- TOB – TOP OF BANK LINES
- TOE – TOE OF SLOPE LINES
- TREE LINES
- TRAV – TRAVERSE LINES
- UNK – UNKNOWN BURIED LINES
- VINYL FENCE
- WOOD FENCE
- WROUGHT IRON FENCE
- WETLAND LINE

Sign Legend:
NOT TO SCALE

(R1)	ROW NUMBER SIGN
(B)	BUS STOP SIGN
(DE)	DEAD END SIGN
(DNE)	DO NOT ENTER SIGN (R5-1)
(DT)	DRIVE-THRU PARKING
(HC)	HANDICAP SIGN
(HC)	DUAL HANDICAP SIGN
(FDC)	FIRE DEPARTMENT CONNECTION
(INFO)	INFORMATION SIGN
(KR)	KEEP RIGHT SIGN
(LTO)	LEFT TURN ONLY
(ME)	MEDIAN SIGN
(MO)	MOBILE ORDER PARKING SIGN
(ND)	NO DUMPING SIGN
(NL)	NO LEFT TURN SIGN (R3-2)
(NLI)	NO LITTERING SIGN
(NO)	NO OUTLET SIGN
(FL)	NO PARKING FIRE LANE SIGN
(NOR)	NO RIGHT TURN SIGN (R3-1)
(NTT)	NO THRU TRAFFIC SIGN
(NOT)	NO TRUCKS (R5-2)
(NP)	NO PARKING SIGN
(1W)	ONE WAY SIGN (R6-2)
(PE)	PEDESTRIAN CROSSING SIGN
(PU)	PICKUP PARKING SIGN
(RP)	RESERVED PARKING SIGN
(RTO)	RIGHT TURN ONLY
(SL)	SPEED LIMIT SIGN
(ST)	STOP SIGN (R1-1)
(SS)	STREET SIGN
(TZ)	TOW AWAY ZONE SIGN
(TE)	TRUCK ENTRANCE SIGN
(TX)	TRUCK EXIT SIGN
(U)	UNKNOWN SIGN
(WL)	WEIGHT LIMIT SIGN
(WW)	WRONG WAY SIGN
(Y)	YIELD SIGN

Reference Material

1) COMPASS LANDING PHASE 2, AS RECORDED IN MAP BOOK 61, PAGES 84 THROUGH 87 OF THE PUBLIC RECORDS OF VOLUSIA COUNTY, FLORIDA.

2) COUNTY OF VOLUSIA PUBLIC WORKS DEPARTMENT CONSTRUCTION ENGINEERING DIVISION SPECIFIC PURPOSE SURVEY/RIGHT-OF-WAY MAP PROJECT NO. 4911.

Index of Survey Sheets

1 COVER SHEET
2-3 BOUNDARY & TOPOGRAPHIC SURVEY

Surveyor's Certification:

I hereby certify that the attached "Boundary & Topographic Survey" of the hereon-described property is true and correct to the best of my knowledge, information and belief as surveyed in the field on November 26, 2024. I further certify that this "Boundary & Topographic Survey" meets the standards of practice set forth in Rule Chapter 5J-17 of the Florida Administrative Code, pursuant to FS 472.027.

For the Firm By: _____
Thomas J. Galloway
Professional Surveyor and Mapper
Florida Registration No. 6549

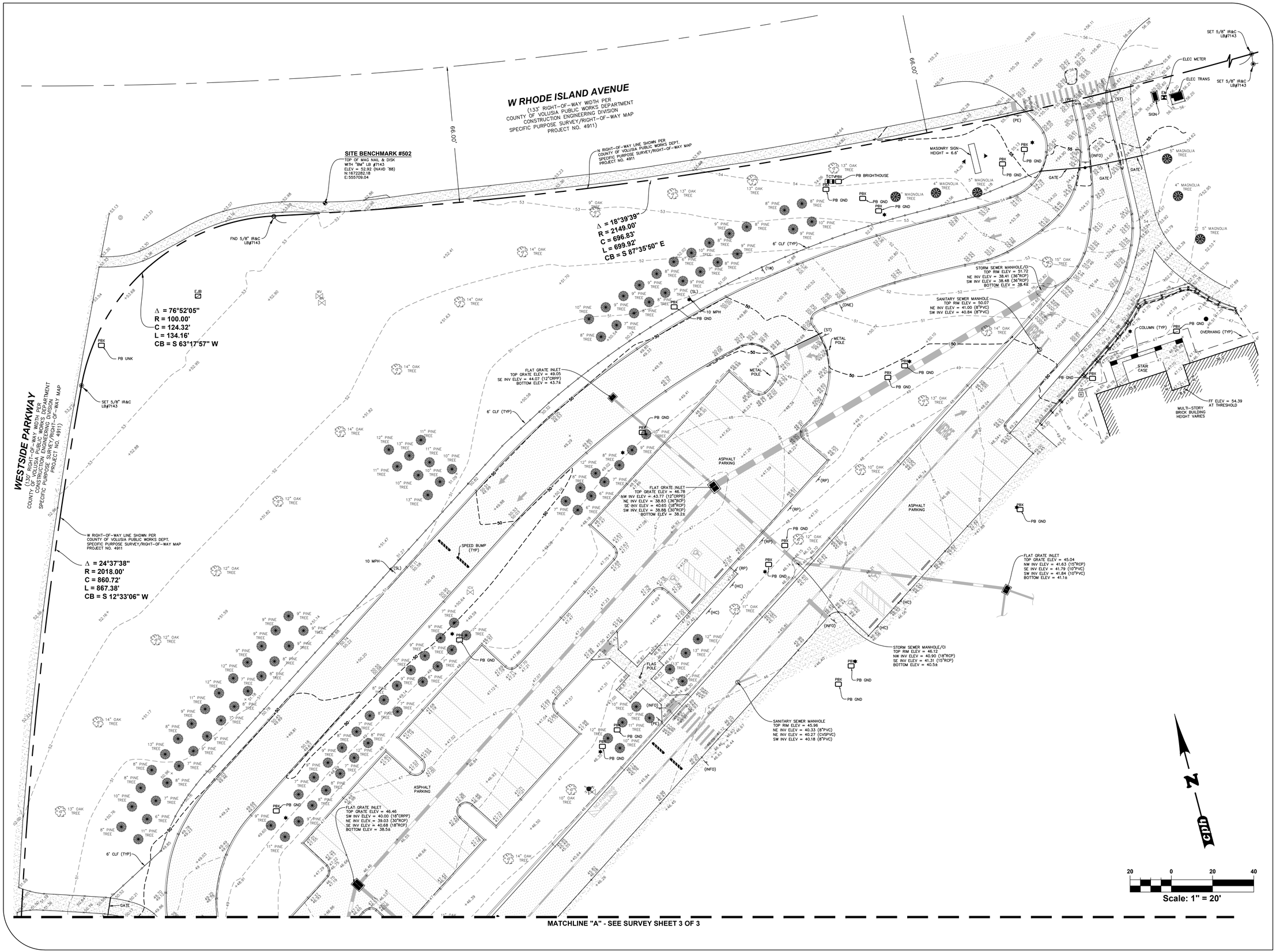
cph
www.cphcorp.com
Building Better Communities Together
500 West Fulton Street
Sanford, FL 32771
Ph: 407.322.6841
Plans Prepared By:
CPH, LLC
A Full Service A & E Firm
State of Florida License:
Survey No. LB7143

REVISIONS

DOCUMENT HISTORY	
1/6/2026	CONFORMED SET

UNIVERSITY HIGH SCHOOL
EXTEND PARENT LOOP
VCS Project NO. 2548185
1000 W. RHODE ISLAND AVE., ORANGE CITY FL 32763

SURVEYOR OF RECORD: Thomas J. Galloway, PSM	
APPROVED BY: TJG	DRAWN BY: RDB
ISSUE DATE: 02.07.25	AE PROJECT NUMBER: 2400653
SHEET TITLE: COVER SHEET	
DRAWING NO.: V0.1	



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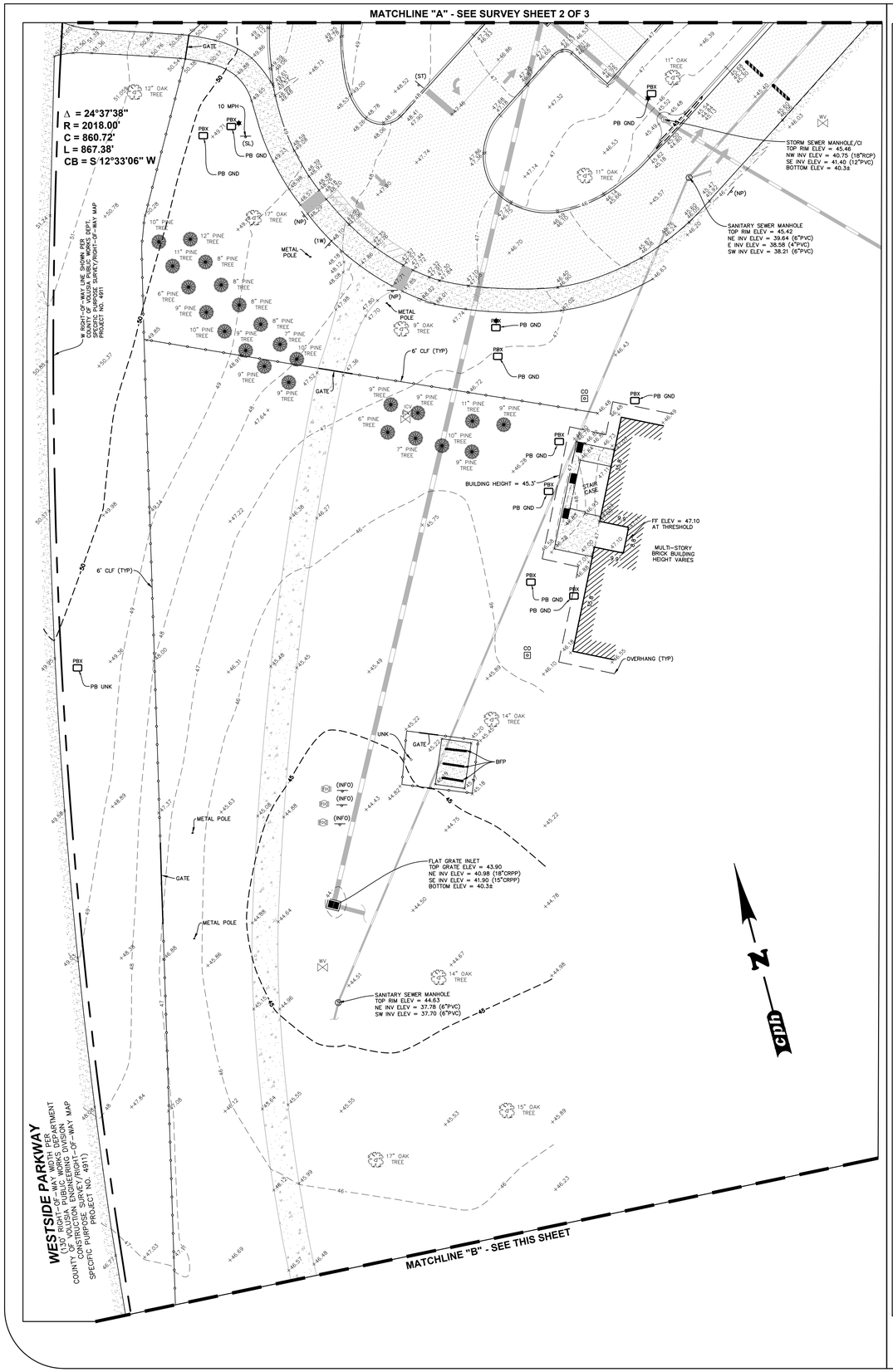
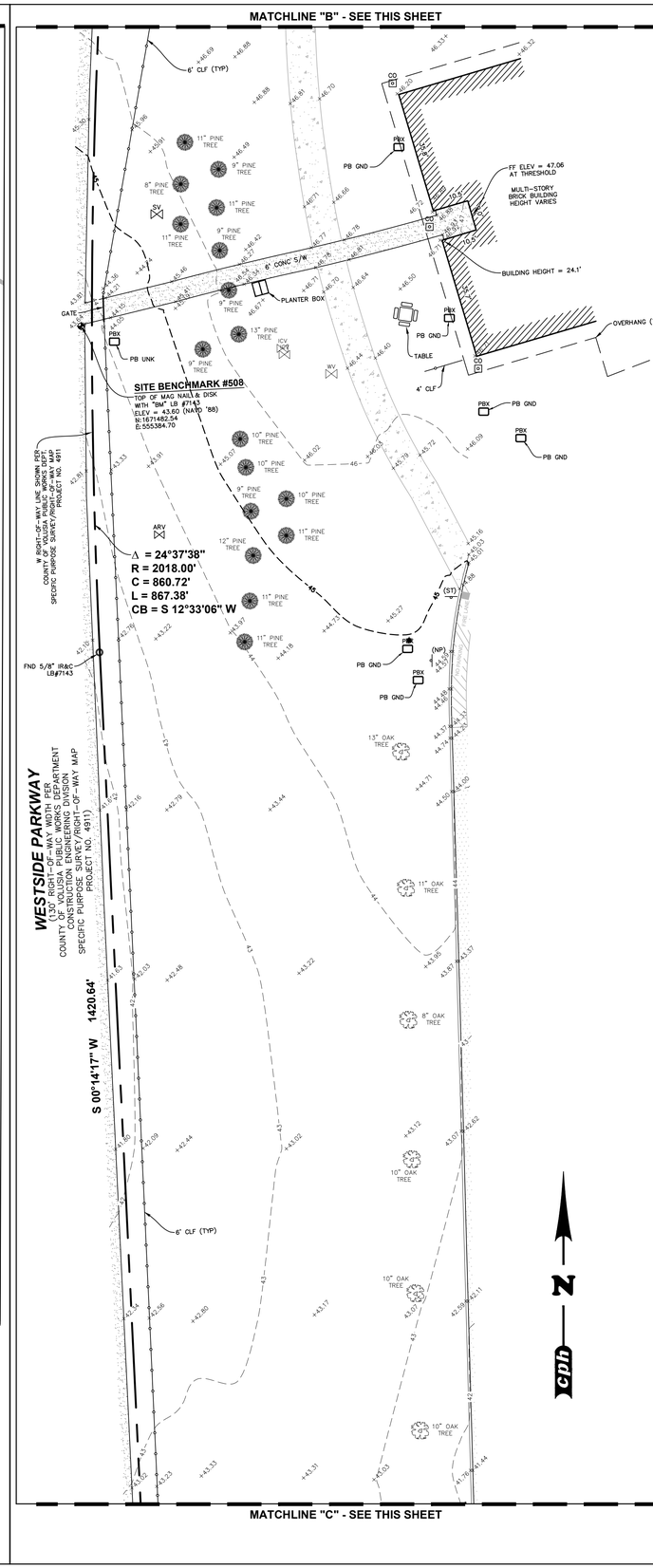
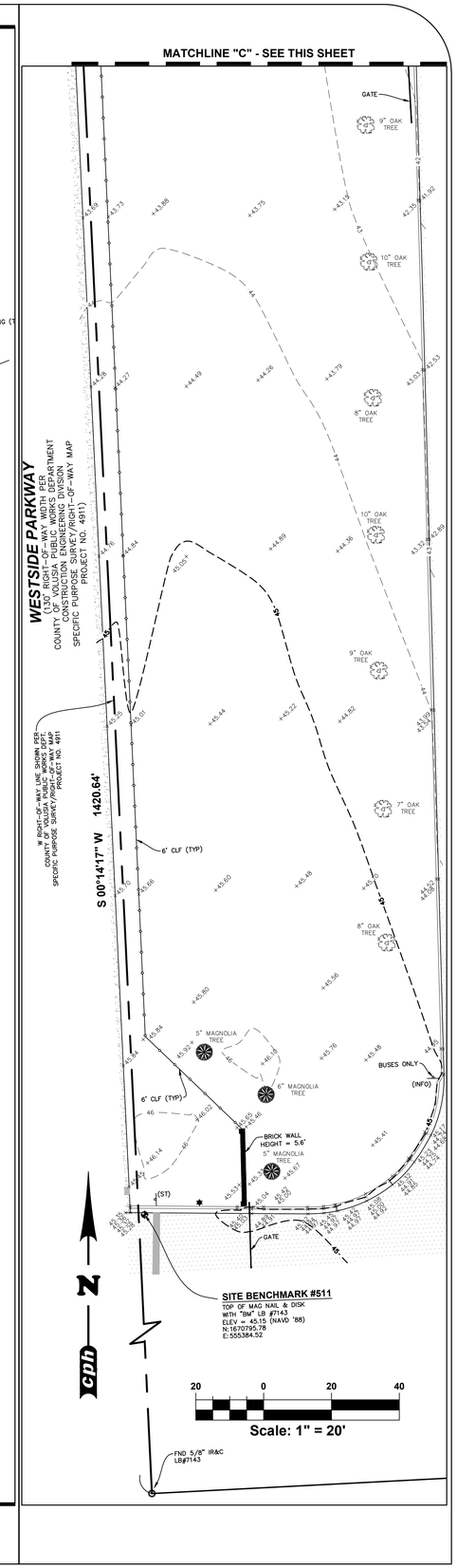
SHEET TITLE: TOPOGRAPHIC SURVEY	
DRAWING NO.: V1.1	







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SHEET TITLE: TOPOGRAPHIC SURVEY	
DRAWING NO.: V1.2	