

CONSTRUCTION PLANS FOR BOYD STREET PARKING AREA

37 N. BOYD STREET WINTER GARDEN, FL 34787

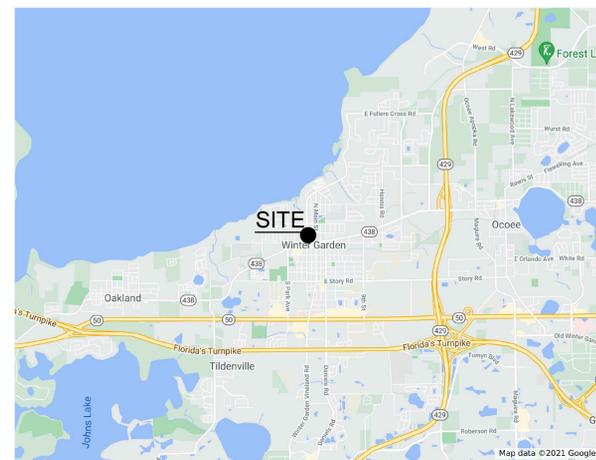
SEPTEMBER, 2021

SITE DATA

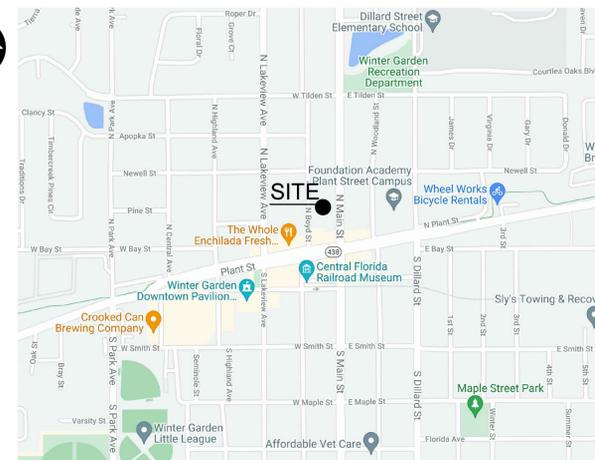
PARCEL ID#: 14-22-27-5656-00-630, 14-22-27-5656-00-560,
14-22-27-5656-00-570
PROJECT AREA: 60,548 SF (1.39 AC)
ZONING: C-1
FLOODZONE: "X" PER FEMA MAP 12059C0205F
EXISTING IMPERVIOUS AREA: 46,100 SF
PROPOSED IMPERVIOUS AREA: 46,350 SF (1.06-AC)
PARKING PROVIDED: 124 SPACES INCLUDING 4 ADA SPACES

DRAWING INDEX

- C1.00 - COVER SHEET
- C2.00 - DEMOLITION & EROSION CONTROL PLAN
- C3.00 - SITE & GEOMETRY PLAN
- C4.00 - PAVING, GRADING & DRAINAGE PLAN
- L.1 - LANDSCAPE PLAN
- L.2 - LANDSCAPE DETAILS
- IRR.1 - IRRIGATION PLAN
- IRR.2 - IRRIGATION DETAILS
- E.1 - ELECTRICAL SITE LIGHTING PLAN
- E.2 - ELECTRICAL DETAILS



VICINITY MAP
N.T.S.



LOCATION MAP
N.T.S.

GENERAL INFORMATION

DEVELOPER:
CITY OF WINTER GARDEN
300 W. PLANT STREET
WINTER GARDEN, FL 34787

CIVIL ENGINEER:
CRIBB PHILBECK WEAVER GROUP
1221 E. BROADWAY STREET
OVIEDO, FLORIDA 32765
PHONE: (407) 604-3224
CERTIFICATE OF AUTH. NO. 26618
ROLAND RAYMUNDO, PE 45981

LANDSCAPE ARCHITECT:
CRIBB PHILBECK WEAVER GROUP
PHONE: (813) 361-2644
MATTI RUKHOLM PLA, 6667261



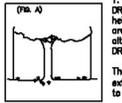
FINAL SET

1	06-24-2021	IRRIG - MR	CPWG ENGINEERING, INC. 1221 E. BROADWAY STREET OVIEDO, FL 32765 407-604-3224		OWNER: CITY OF WINTER GARDEN 300 WEST PLANT STREET WINTER GARDEN, FL 34787	PROJECT: BOYD STREET PARKING AREA	COVER SHEET	SHEET NUMBER	
2	07-29-2021	100% SUBMITTAL REVIEW COMMENTS						ROLAND RAYMUNDO, PE FLORIDA REG. PROF. ENGINEER No.: 45981	C1.00
3	08-11-2021	ADDL. 100% SUBMITTAL REVIEW COMMENTS							
4	09-29-2021	ADDED \$ WATER & ELECTRICAL SERVICE TO SHELTER PER COMMENTS							
NO.	DATE	REVISION						OF 10 SHEETS	

PROTECTIVE BARRIER REQUIREMENTS AND SPECIFICATIONS FOR EXISTING TREES TO REMAIN

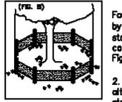
PROTECTIVE BARRIERS are used during land alterations and construction activities to protect trees and natural areas to be retained on a site.

PROTECTIVE BARRIERS must be erected around TREES to be retained within an area where land alteration and construction activities will occur as well as along NATURAL AREAS where such areas are adjacent to permitted land alteration or construction activities. A PROTECTIVE BARRIER must remain in place until the land alteration and construction activities are completed or until commencement of grade finishing and sodding. No ground disturbance must occur within the barricaded area. The following represents the County's minimum protective barrier specifications.



1. TREES - To restrict access into the area within the CANOPY DRIPLINE of a tree, a physical structure not less than 3 feet in height, comprised of wood or other suitable material, is placed around the tree at the CANOPY DRIPLINE, except where land alteration or construction activities are approved within the CANOPY DRIPLINE.

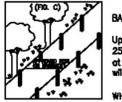
The CANOPY DRIPLINE of a tree is the imaginary, vertical line that extends downward from the outermost tips of the tree's branches to the ground. Fig. A



BARRIER SPECIFICATIONS FOR TREES:

Four corner upright stakes of no less than 2"x2" lumber connected by horizontal member of no less than 1"x4" lumber; or upright stakes spaced at 5' intervals of no less than 2"x2" lumber connected by silk screen fabric or material of comparable durability. Fig. B

2. NATURAL AREAS - To restrict access into areas where land alteration and construction activities are not authorized a physical structure not less than 3 feet in height is placed along the perimeter of such areas.



BARRIER SPECIFICATIONS FOR NATURAL AREAS:

Upright stakes of no less than 2"x2" lumber spaced no more than 25' apart and connected by twine flopped with plastic surveying tape at regular intervals of 5'-10'. Fig. C Other methods of demarcation will be considered depending upon the characteristics of the site.

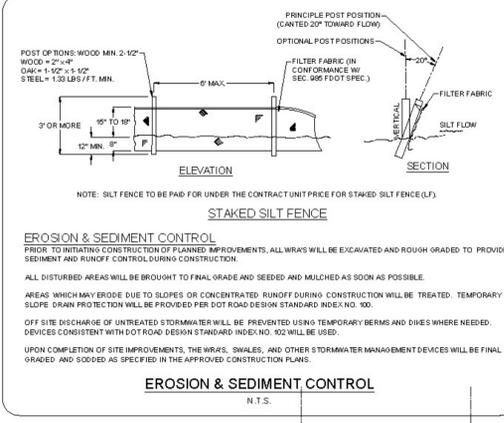
WHY A BARRIER:

- To protect all above ground portions of trees and other significant vegetation from mechanical damage.
- To protect root systems from compaction.
- To provide awareness of protected areas to equipment operators.

EROSION AND SEDIMENT CONTROL NOTES

A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) SHALL BE PREPARED BY THE CONTRACTOR AND APPROVED PRIOR TO SCHEDULING OF PRE-CONSTRUCTION CONFERENCE. THE CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT AS THAT ARE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS CONDITION WILL BE SATISFIED FOR THE TOTAL ANTICIPATED CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY AND CAPACITY OF CHECK WEIRS, SEDIMENT BASINS, SLOPE DRAINS, GRADING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. CONTRACTOR SHALL PROVIDE HAY BALES, TEMPORARY GRASSING ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS SPECIFICATION.

- STOCKPILING MATERIAL, NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DRAIN DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
- EXPOSED MATERIAL THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING, OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL NOT EXCEED 40 ACRES SO LONG AS THIS OPERATION WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
- INLET PROTECTION THE CONSTRUCTION OF SWALES AND THE STORM WATER COLLECTION SYSTEM SHALL BE PERFORMED PRIOR TO CONSTRUCTION OF IMPERVIOUS AREAS. INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN STORM RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET.
- TEMPORARY SEEDING AREAS OPENED BY CONSTRUCTION OPERATIONS AND THAT ARE NOT ANTICIPATED TO BE DRESSED AND RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE SEED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED AND WILL NOT LATER COMPLETE WITH THE PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE 30 LBS. PER ACRE.
- TEMPORARY GRASSING SLOPES STEEPER THAN 6:1 THAT FALL WITHIN THE CATEGORY ESTABLISHED IN 4 ABOVE, SHALL ADDITIONALLY RECEIVE MULCHING OF APPROXIMATELY 2 INCHES LOOSE MEASURE OF MULCH MATERIAL CUT INTO THE SOIL OF THE SEEDING AREA TO A DEPTH OF FOUR INCHES.
- TEMPORARY GRASSING THE SEEDING OR SEEDING AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
- TEMPORARY REGRASSING IF AFTER FOURTEEN DAYS, THE TEMPORARY GRASSING AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED SUFFICIENT TO ESTABLISH THE DESIRED VEGETATION COVER.
- MAINTENANCE ALL FEATURES OF THE PROJECT WILL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.
- DUST ABATEMENT DUST SHALL BE CONTROLLED WITH USE OF WATER AND CALCIUM CHLORIDE.



TREE PROTECTION NOTES

- INSTALL TREE BARRICADES TO THE FULLEST EXTENT OF THE DRIP LINE OF ALL TREES AS POSSIBLE AND/OR TO THE MAXIMUM LIMIT OF IMPROVEMENTS AS POSSIBLE (OF COURSE REALIZING THAT THE TREE BARRICADES MAY HAVE TO BE "BACKED OFF" THE IMPROVEMENTS BY 8' TO 2' MAXIMUM TO INSTALL THE IMPROVEMENTS. DO NOT INSTALL TREE BARRICADES (SPECIFICALLY SILT FENCING MATERIAL) BY TRENCING WITHIN THE DRIPLINE OF EXISTING TREES. MINOR PRUNING IS THE PRUNING OF A TREE BY THE REMOVING BRANCHES MEASURED NO GREATER THAN THREE INCHES IN DIAMETER AT THE POINT OF CONNECTION TO A SUPPORTING BRANCH AND SHALL BE IN ACCORDANCE TO THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS.
- ALL TRIMMING UNDERTAKEN ON A TREE PROTECTED BY THE PROVISIONS OF THE LAND DEVELOPMENT CODE SHALL BE IN ACCORDANCE WITH THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) A-300 PRUNING STANDARDS.
- DURING LAND ALTERATION AND CONSTRUCTION ACTIVITIES, WITHIN THE DRIPLINE OF A TREE REMAINING ON SITE, UNLESS OTHERWISE APPROVED BY THE ADMINISTRATOR, IT SHALL BE UNLAWFUL TO REMOVE VEGETATION, EXCEPT BY HAND, BY GRUBBING OR TO PLACE SOIL DEPOSITS, DEBRIS, SOLVENTS, CONSTRUCTION MATERIAL, MACHINERY OR OTHER EQUIPMENT OF ANY KIND WITHIN THE DRIPLINE OF A TREE TO REMAIN ON THE SITE.

LEGEND

- PROPERTY LINE
- - - TREE BARRICADE / SILT FENCE
- EXISTING GRADE
- 20" O OAK TREE
- 20" P PINE TREE
- 20" PM PALM TREE
- ⊗ TREE TO BE REMOVED

GRAPHIC SCALE
1 inch = 20' ft.

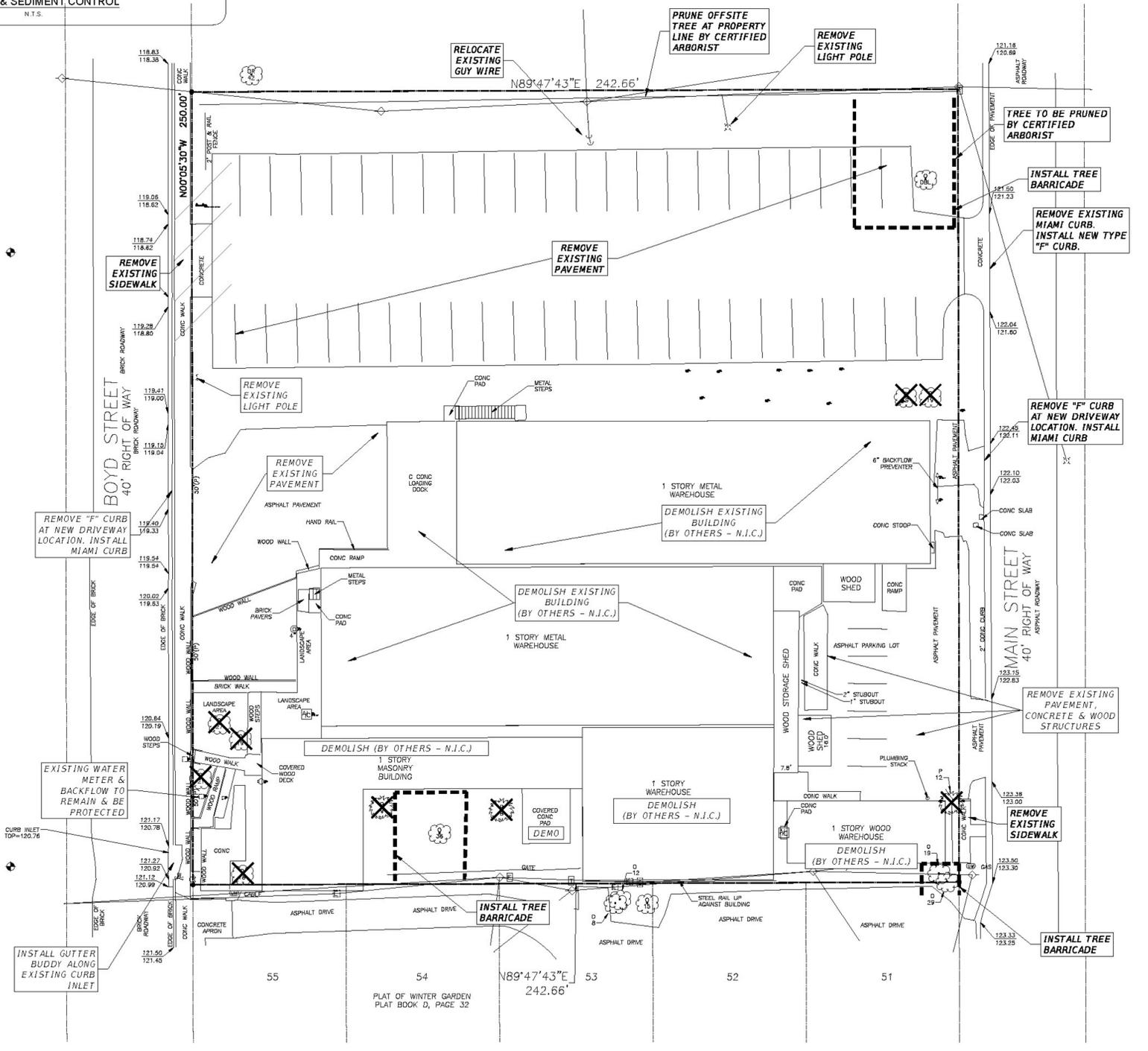
GENERAL NOTES:

(FOR NPDES GENERAL PERMITS REQUIRED FOR SMALL ACTIVITIES - GREATER THAN 1 ACRE AND LESS THAN 5 ACRES)

- A COPY OF THE NOTICE OF INTENT (NOI) OR LETTER FROM THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) CONFIRMING COVERAGE UNDER THIS GENERAL PERMIT SHALL BE POSTED AT THE CONSTRUCTION SITE IN A PROMINENT PLACE FOR PUBLIC VIEWING (SUCH AS ALONGSIDE A BUILDING PERMIT).
- THE DISCHARGE OF HAZARDOUS SUBSTANCES OR OIL IN THE STORMWATER DISCHARGE(S) FROM A FACILITY OR ACTIVITY SHALL BE PREVENTED OR MINIMIZED IN ACCORDANCE WITH THE APPLICABLE STORMWATER POLLUTION PREVENTION PLAN FOR THE FACILITY OR ACTIVITY.
- THE PERMITTEE SHALL PROVIDE FOR COMPLIANCE WITH THE TERMS AND SCHEDULE OF THIS PLAN BEGINNING WITH THE INITIATION OF CONSTRUCTION ACTIVITIES.
- PERMITTEE SHALL ADHERE TO THE STATE OF FLORIDA DEP GENERAL PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES.
- PRESERVE EXISTING VEGETATION WHERE ATTAINABLE AND STABILIZE DISTURBED PORTIONS OF THE SITE TO PREVENT EROSION. STABILIZATION MEASURES INCLUDE PERMANENT SEEDING, SOD, PRESERVATION OF EXISTING MATURE VEGETATION AND PROTECTION OF EXISTING TREES. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.
- EACH PLAN SHALL INCLUDE A DESCRIPTION OF STRUCTURAL PRACTICES, TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS, RETAIN SEDIMENT ON-SITE, OR OTHERWISE LIMIT RUNOFF AND THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SUCH PRACTICES MAY INCLUDE SILT FENCES, SWALES, CHECK DAMS, STORM DRAIN INLET PROTECTION, PERMANENT SEDIMENT BASINS OR DRAINAGE RETENTION AREAS (D.R.A.'S).
- CONSTRUCT TEMPORARY SEDIMENT CONTROL BASINS AT EACH POINT OF DISCHARGE INTO D.R.A.'S.
- CONTROLS FOR OTHER POLLUTANTS:
 - WASTE DISPOSAL. THE PLAN SHALL ASSURE THAT WASTE, SUCH AS DISCARDED BUILDING MATERIALS, CHEMICALS, LITTER, AND SANITARY WASTE ARE PROPERLY CONTROLLED IN ACCORDANCE WITH ALL APPLICABLE STATE, LOCAL, AND FEDERAL REGULATIONS. THIS PERMIT DOES NOT AUTHORIZE THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO SURFACE WATERS OF THE STATE OR A MUNICIPAL SEWER SYSTEM (MS4).
 - THE PLAN SHALL ASSURE THAT OFF-SITE VEHICLE TRACKING OF SEDIMENTS AND THE GENERATION OF DUST IS MINIMIZED.
 - THE PLAN SHALL BE CONSISTENT WITH APPLICABLE STATE AND LOCAL WASTE DISPOSAL, SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.
 - THE PLAN SHALL ADDRESS THE PROPER APPLICATION RATES AND METHODS FOR THE USE OF FERTILIZERS, HERBICIDES AND PESTICIDES AT THE CONSTRUCTION SITE AND SET FORTH HOW THESE PROCEDURES WILL BE IMPLEMENTED AND ENFORCED. NUTRIENTS SHALL BE APPLIED ONLY AT RATES NECESSARY TO ESTABLISH AND MAINTAIN VEGETATION.
 - THE PLAN SHALL ENSURE THAT THE APPLICATION, GENERATION, AND MIGRATION OF TOXIC SUBSTANCES IS LIMITED AND THAT TOXIC MATERIALS ARE PROPERLY STORED AND DISPOSED.
- A QUALIFIED INSPECTOR (PROVIDED BY THE OPERATOR) SHALL INSPECT ALL POINTS OF DISCHARGE INTO SURFACE WATERS OF THE STATE OR A MUNICIPAL SEWER SYSTEM (MS4). DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROLS, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE, AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER IN ACCORDANCE WITH THE GENERAL PERMIT.
- THE PERMITTEE SHALL RETAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN AND ALL REPORTS, RECORDS AND DOCUMENTATION REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE, OR AN APPROPRIATE ALTERNATIVE LOCATION AS SPECIFIED IN THE NOI, FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.
- THE PERMITTEE SHALL SUBMIT A COMPLETED NOTICE OF TERMINATION (N.O.T.) (CEP FORM 62-621.3008), SIGNED IN ACCORDANCE WITH PART VII.C. OF THIS PERMIT, WITHIN 14 DAYS OF FINAL STABILIZATION OF THE SITE TO TERMINATE COVERAGE UNDER THIS PERMIT.
- A PERMITTEE SHALL SUBMIT A N.O.T. TO THE FOLLOWING ADDRESS:

NPDES STORMWATER NOTICES CENTER, MS #2510
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
2800 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400
- PROJECTS THAT DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY TO A MUNICIPAL SEWER SYSTEM (MS4) SHALL SUBMIT A COPY OF THE NOI TO THE OPERATOR OF THE MS4.
- REFER TO THE SITE PLANS FOR ADDITIONAL EROSION CONTROL MEASURES AND ADDITIONAL INFORMATION.

- ### NOTES:
- FOR SILT FENCE DETAIL SEE TYPE III SILT FENCE IN FOOT INDEX 103. SILT FENCE LOCATION SHOWN FOR CLARITY ONLY, ACTUAL FENCE TO BE AS NEAR THE PROPERTY LINE AS PRACTICAL.
 - ALL EXISTING STORM WATER DRAINAGE PATTERNS AND CHANNELS OUTSIDE THE CONSTRUCTION AREAS SHOWN ON THESE PLANS ARE TO BE MAINTAINED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IF THE WORK APPEARS TO INTERFERE BY AN EXISTING STORM WATER DRAIN. RECOMMENDED EROSION CONTROL SHALL CONSIST OF MAINTAINING A CLEAR PATH FOR ALL SURFACE WATER DRAINAGE STRUCTURES AND DITCHES DURING ALL PHASES OF CONSTRUCTION SUCH THAT IMPACT TO CONSTRUCTION AND/OR SURROUNDING FACILITIES IS MINIMIZED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EROSION, SEDIMENT TRANSPORT, DISTURBED FOUNDATIONS, IMPACT TO STRUCTURES, AND ANY OTHER DAMAGE CAUSED DURING CONSTRUCTION.
 - THE CONTRACTOR SHALL PREVENT THE DISCHARGE OF SEDIMENT DUE TO CONSTRUCTION OPERATIONS. APPROVED EROSION CONTROL DEVICES SHALL BE INSTALLED TO PREVENT DISCHARGE OF SEDIMENT INTO A DRY OR WET WATER COURSE. RECOMMENDED EROSION CONTROL SHALL CONSIST OF SILT FENCE, OR OTHER EROSION CONTROL METHODS AS SHOWN OR APPROVED BY THE PROJECT ENGINEER. ALL NEW AND EXISTING DRAIN PIPES AND STRUCTURES SHALL BE FLUSHED CLEAN AFTER CONSTRUCTION.
 - PROVIDE EROSION CONTROL BLANKET FOR ALL SLOPES 2:1 (HORIZONTAL TO VERTICAL) OR STEEPER.
 - SWALES AND DISTURBED AREAS SHALL BE SODDED OR SEEDDED AND MULCHED AS SOON AS PRACTICAL.
 - SEE THIS PLAN FOR ACTUAL LOCATION OF SILT FENCE.



NO.	DATE	REVISION
1	06-24-2021	IRIG - MR
2	07-29-2021	100% SUBMITTAL REVIEW COMMENTS
3	08-11-2021	ADDL. 100% SUBMITTAL REVIEW COMMENTS

CPWG ENGINEERING, INC.
1221 E. BROADWAY STREET
OVIDO, FL 32765
407-604-3224



ROLAND RAYMONDO, PE
FLORIDA REG. PROF. ENGINEER No.: 45981

OWNER:
CITY OF WINTER GARDEN
300 WEST PLANT STREET
WINTER GARDEN, FL 34787

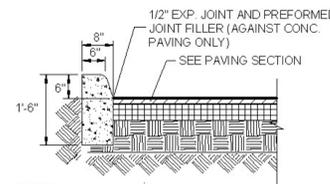
PROJECT:
BOYD STREET
PARKING AREA

DEMOLITION & EROSION CONTROL PLAN

SHEET NUMBER
C2.00
OF 10 SHEETS

FILL PLACEMENT

1. AFTER THE CONTRACTOR PROOF ROLLS THE SITE IN ACCORDANCE WITH THE ABOVE RECOMMENDATIONS, THE CONTRACTOR SHOULD PLACE AND COMPACT FILL REQUIRED TO BRING THE SITE TO FINAL GRADE. WE RECOMMEND THAT ALL FILL BE SELECTED, PLACED AND COMPACTED AS FOLLOWS:
2. USE FILL MATERIAL COMPRISED OF NON-PLASTIC SANDS WITH LESS THAN ABOUT 5% FINES CONTENT. THE FILL SHOULD NOT CONTAIN ANY SIGNIFICANT AMOUNT OF ORGANIC SUBSTANCES (LESS THAN 3% BY WEIGHT) OR OTHER DELETERIOUS MATERIALS.
3. PLACE FILL IN LEVEL LIFTS NO THICKER THAN 12 INCHES. THINNER LIFTS MAY BE NEEDED TO ACHIEVE COMPACTION ON THE SILTY OR CLAYEY SANDS.
4. COMPACT FILL TO A MINIMUM OF 98% OF THE SOIL'S MODIFIED PROCTOR MAXIMUM DRY DENSITY AS DETERMINED BY ASTM STANDARD D-1557 FOR EACH LIFT OF FILL PLACED.
5. ALLOW AN ENGINEERING TECHNICIAN, WORKING UNDER THE DIRECTION OF REGISTERED GEOTECHNICAL ENGINEER, TO PERFORM IN-PLACE DENSITY TESTS TO VERIFY THAT THE RECOMMENDED DEGREE OF COMPACTION HAS BEEN ACHIEVED.
6. EXTEND FILL A MINIMUM OF 5 FEET BEYOND BUILDING LIMITS TO PREVENT POSSIBLE EROSION OR UNDERMINING OF FOOTING BEARING SOILS.
7. PROVIDE FILL SLOPE NO STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL.



NOTES

1. CONSTRUCT PER FOOT INDEX NO. 300.
2. PROVIDE 1/8" x 1/4" (SAW CUT) CONTRACTION JOINTS AT 10' CENTERS (MAXIMUM). MATCH PAVEMENT JOINTS FOR CONCRETE PAVEMENT.
3. PROVIDE END TRANSITIONS PER F.D.O.T. INDEX NO. 300.

TYPE "D" CURB DETAIL
N.T.S.

FLOODZONE INFORMATION

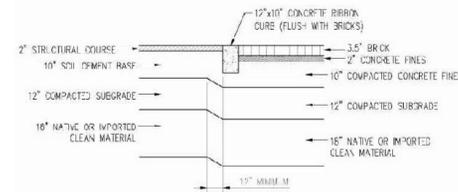
FLOOD ZONE "X" IN ACCORDANCE WITH F.I.R.M. MAP #12057C0388H, HILLSBOROUGH COUNTY, FLORIDA. PRELIMINARY MAP DATE 10/26/2018

VERTICAL DATUM INFORMATION

VERTICAL INFORMATION SHOWN HEREON REFERS TO NATIONAL GEODETIC SURVEY BENCHMARK 7502K001, WHICH IS A FOUND NAIL AND DISK STAMPED DSPNC 7502K001, NAVD88 ELEVATION = 124.84.

PAVING AND DRAINAGE NOTES:

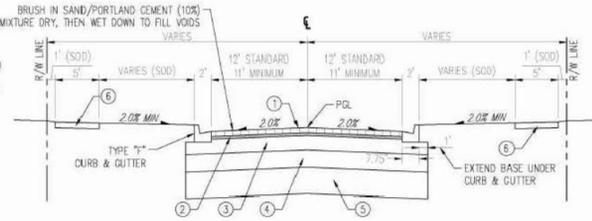
1. ALL PAVEMENT MARKING SHALL BE AS THE FOOT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS & HIGHWAYS.
2. ALL PAVEMENT RETURN RADIUS SHALL BE MEASURED FROM THE FACE OF CURB.
3. DEBRIS AND ALL EXISTING CONCRETE/ASPHALT LOCATED WITHIN LANDSCAPED ISLANDS SHALL BE COMPLETELY REMOVED. REPLACE WITH CLEAN SOIL IF REQUIRED.
4. ALL CURBS AND CURB AND GUTTER SHALL BE CONSTRUCTED TO THE LINES AND GRADES CALLED FOR ON THE PLANS. ANY CURB OR CURB AND GUTTER WHICH IS NOT CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING TOLERANCES SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
 MAXIMUM VARIANCE IN HORIZONTAL ALIGNMENT - 0.10 FEET
 MAXIMUM VARIANCE IN VERTICAL ALIGNMENT - 0.02 FEET
 MINIMUM CONTOUR SLOPE - 0.24
 MINIMUM GUTTER SLOPE SHALL APPLY TO ALL LOCATIONS EXCEPT AT HIGH POINTS AND LOW POINTS CALLED FOR ON THE PLANS. ANY CRACKED, CHIPPED, STAINED OR DEFACED CURBING FOUND PRIOR TO OR AT THE FINAL INSPECTIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL INSTALL DROP CURBS AND HANDICAP ACCESS RAMPS AT ALL INTERSECTIONS OF THE SIDEWALK WITH THE PROPOSED PAVEMENT.
6. ALL CURBS, INLET THROATS, INLET TOPS AND CURB TIE-INS SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF PAVEMENT BASE.
7. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN CENTERLINES OF DRAINAGE STRUCTURES.
8. ALL STORMWATER PIPE SHALL BE CLASS III RCP, UNLESS OTHERWISE NOTED ON THE PLANS.
9. PIPE WITH LIFTING HOLES WILL NOT BE ALLOWED IN ROADWAYS AND IS NOT APPROVED FOR ROADWAY CONSTRUCTION.
10. ALL INLETS GRATES SHALL BE STEEL PER FOOT INDEX NO. 232
11. ALL MANHOLE AND INLET STRUCTURES SHALL BE PRECAST CONCRETE
12. CONTRACTOR SHALL DETERMINE THE BOTTOM SIZE OF ALL DRAINAGE STRUCTURES SO AS TO FIT ALL REQUIRED PIPES.
13. DITCH BOTTOM AND CONTROL STRUCTURE INLET GRATES SHALL BE SECURED BY CHAIN AND EYEBOLT.
14. ALL NON-PAVED DISTURBED AREAS TO BE SOODED UNLESS OTHERWISE NOTED.
15. ALL PAVEMENT, PAVEMENT BASE, CURBING, STORMWATER SYSTEMS, WATER SYSTEMS AND SANITARY SEWER SYSTEMS THAT ARE TO BE DEMOLISHED AND REMOVED SHALL BE DISPOSED OF OFF-SITE BY THE SITE CONTRACTOR, UNLESS OTHERWISE DIRECTED BY THE OWNER.
16. CONTRACTOR SHALL CONFORM TO SFPC, 1982 EDITION, 18.106 TO WIT: "DURING CONSTRUCTION, WHEN COMBUSTIBLES ARE BROUGHT ON TO THE SITE IN SUCH QUANTITIES AS DEEMED HAZARDOUS BY THE FIRE OFFICIAL, ACCESS ROADS AND A SUITABLE TEMPORARY SUPPLY OF WATER ACCEPTABLE TO THE FIRE DEPARTMENT SHALL BE PROVIDED AND MAINTAINED."



1 RIBBON CURB WITH BRICK PAVERS
N.T.S.

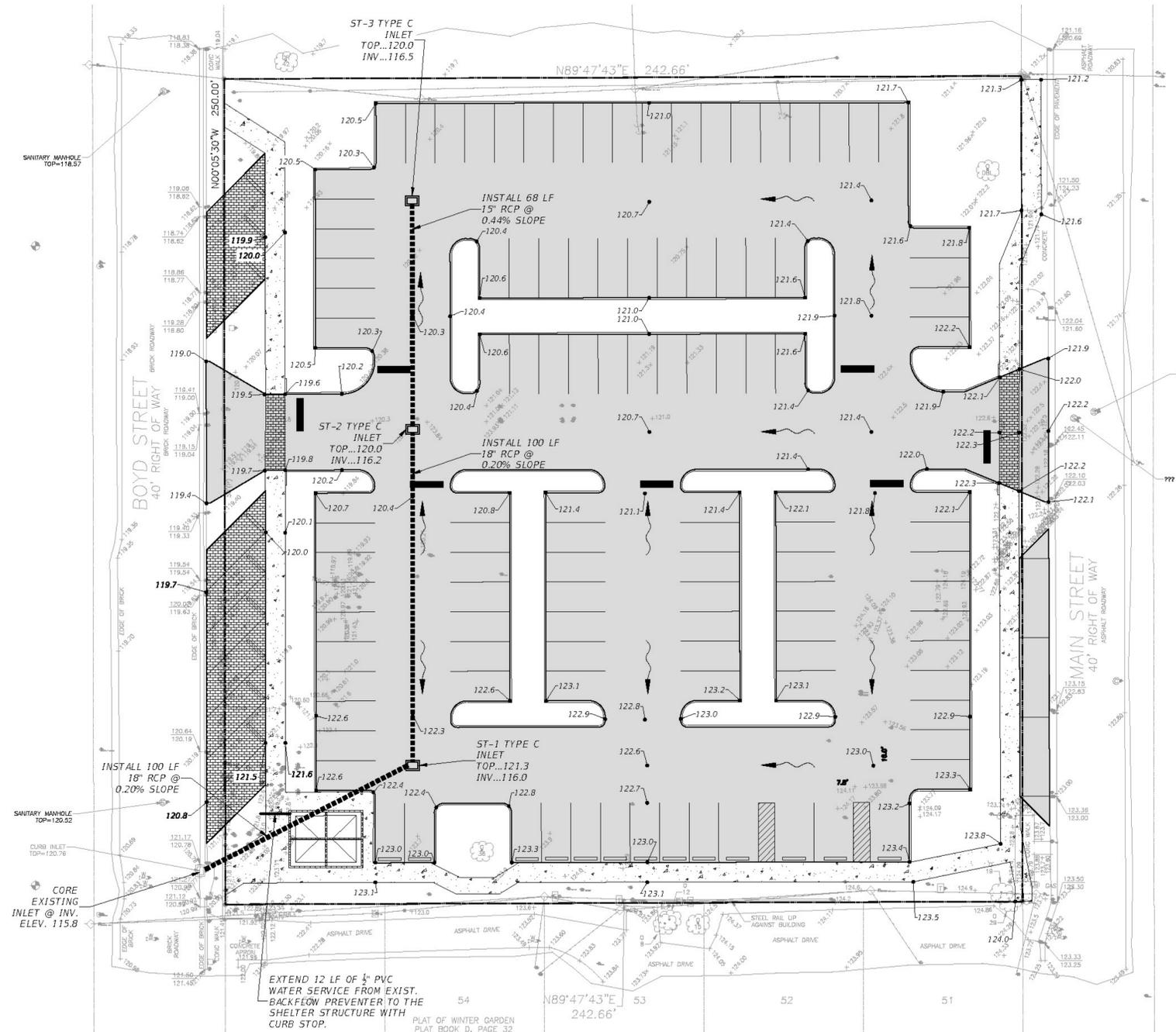
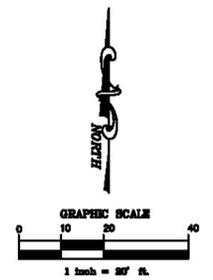
PAVEMENT DESIGN

1. 3.5" BRICKS
2. 1" - 2" LOOSE CONCRETE FINES LEVELING BED
3. 10" BASE - COMPACTED CONCRETE FINES TO 98% MAX. DENSITY (AASHTO T-134) ASPHALTIC PRIME COAT APPLIED AT 0.15 GAL/SF
4. 12" COMPACTED SUBGRADE (98% DENSITY) AASHTO T-180 AND LBR 40
5. 18" OF NATIVE OR IMPORTED MATERIAL HAVING LESS THAN 5% PASSING #200 SIEVE COMPACTED TO 98% PER AASHTO T-180
6. 4" THICK CONCRETE SIDEWALK



LEGEND

- PROPERTY LINE
- DRAINAGE PIPE
- x 107.8 EXISTING GRADE
- 13.3 PROPOSED GRADE
- M.E.G. MATCH EXISTING GRADE
- PROPOSED INLET
- PROPOSED MANHOLE
- PROPOSED BUILDING
- PROPOSED PAVEMENT



NO.	DATE	REVISION
1	06-24-2021	IARIG - MR
2	07-29-2021	100% SUBMITTAL REVIEW COMMENTS
3	08-11-2021	ADDL 100% SUBMITTAL REVIEW COMMENTS
4	09-29-2021	ADDED 1/2 WATER SERVICE TO SHELTER STRUCTURE PER COMMENTS

CPWG ENGINEERING, INC.
1221 E. BROADWAY STREET
OVIDO, FL 32765
407-604-3224



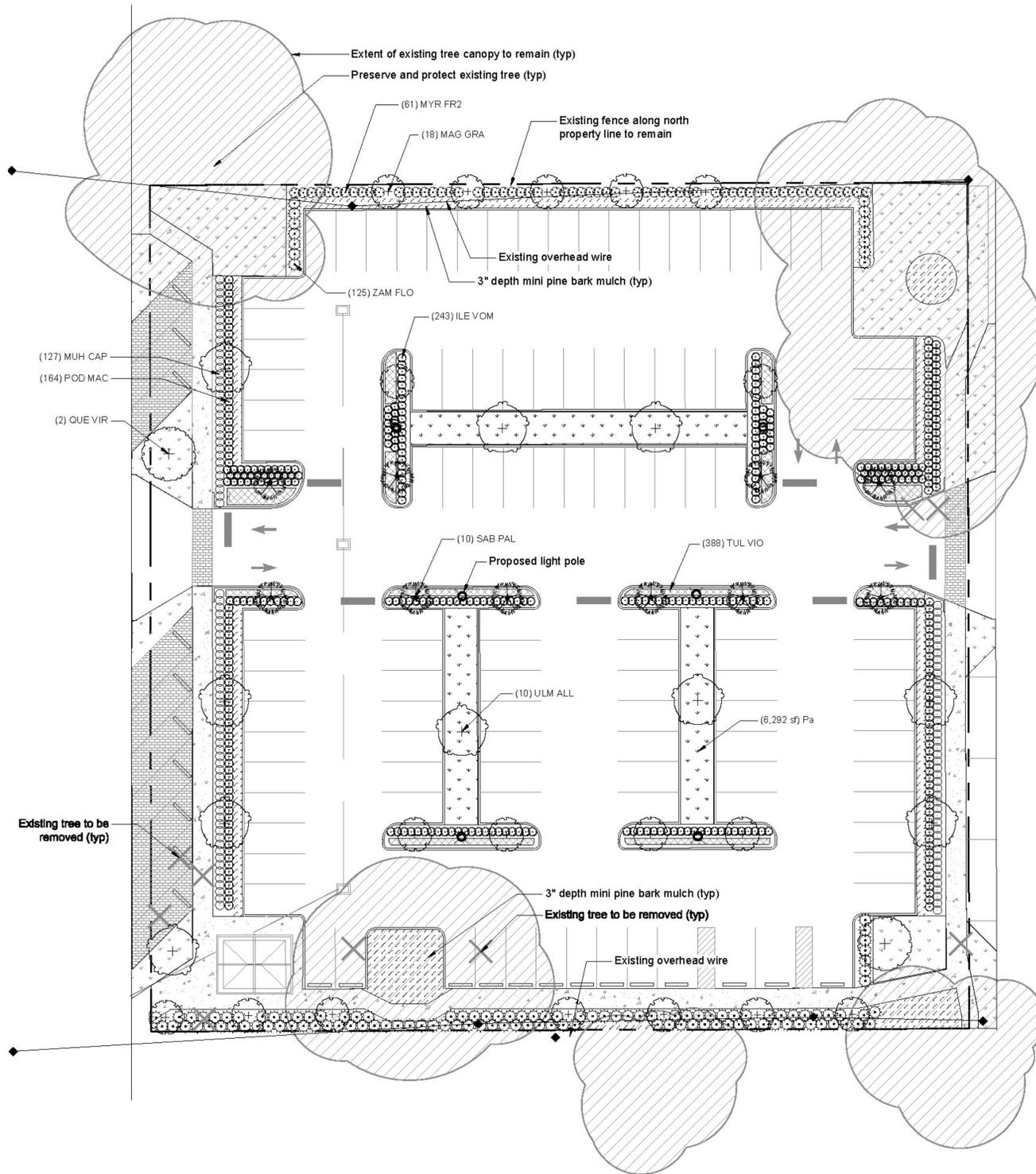
ROLAND RAYMONDO, PE
FLORIDA REG. PROF. ENGINEER NO.: 45981

OWNER:
CITY OF WINTER GARDEN
300 WEST PLANT STREET
WINTER GARDEN, FL 34787

PROJECT:
BOYD STREET
PARKING AREA

PAVING, GRADING &
DRAINAGE PLAN

SHEET NUMBER
C4.00
OF 10 SHEETS

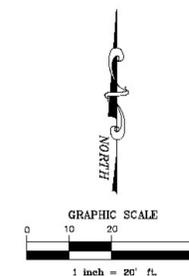


PLANT SCHEDULE

TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPECS	REMARKS
	MAG GRA	18	Magnolia grandiflora 'Little Gem' / Dwarf Southern Magnolia	200 gal	6" CAL, 17' HT, 6" SPD, 52" ROOT BALL	FULL TO GROUND
	QUE VIR	2	Quercus virginiana 'Cathedral' / Cathedral Live Oak	200 gal	6" CAL, 17' HT, 10" SPD, 52" ROOTBALL	
	ULM ALL	10	Ulmus parvifolia 'Allee' TM / Allee Lacebark Elm	200 gal	6" CAL, 17' HT, 6" SPD, 52" ROOT BALL	
PALM TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	SPECS	REMARKS
	SAB PAL	10	Sabal palmetto / Cabbage Palmetto	B & B	15' HT CT, REGEN	Yes
SHRUBS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPECIFICATIONS	REMARKS
	ILE VOM	243	Ilex vomitoria 'Nana' / Dwarf Yaupon	7 gal	12" HT X 24" SPRD, 24" OC	
	MUH CAP	127	Muhlenbergia capillaris / Pink Muhly	3 gal	24" HT X 24" SPD, 24" OC	
	MYR FR2	61	Myrcianthes fragrans 'compacta' / Compact Simpson's Stopper	4 gal	24" HT X 24" SPD, 30" OC	
	POD MAC	164	Podocarpus macrophyllus 'Pringles' / Dwarf Podocarpus	4 gal	36" HT X 9" SPRD, 24" OC	
	ZAM FLO	125	Zamia floridana / Coontie Palm	3 gal	24" HT X 24" SPD, 24" OC	
GROUND COVERS	CODE	QTY	BOTANICAL / COMMON NAME	CONT	SPECIFICATIONS	REMARKS
	Pa	6,291 sf	Paspalum notatum 'Argentine' / Bahia Grass	sod	Sod	
	TUL VIO	388	Tulbaghia violacea 'Silver Lace' / Silver Lace Society Garlic	1 gal	12" HTX 12" SPD, 18" OC	

REFERENCE NOTES SCHEDULE

SYMBOL	DESCRIPTION	QTY
	3" depth mini bark mulch	1,824 sf



REFER TO L.2 FOR PLANTING DETAILS AND SPECIFICATIONS

NO.	DATE	REVISION
1	06-24-2021	IRRI - MR
2	07-29-2021	100% SUBMITTAL REVIEW COMMENTS
3	08-11-2021	ADDL. 100% SUBMITTAL REVIEW COMMENTS

CPWG ENGINEERING, INC.
1221 E. BROADWAY STREET
OVIEDO, FL 32765
407-604-3224



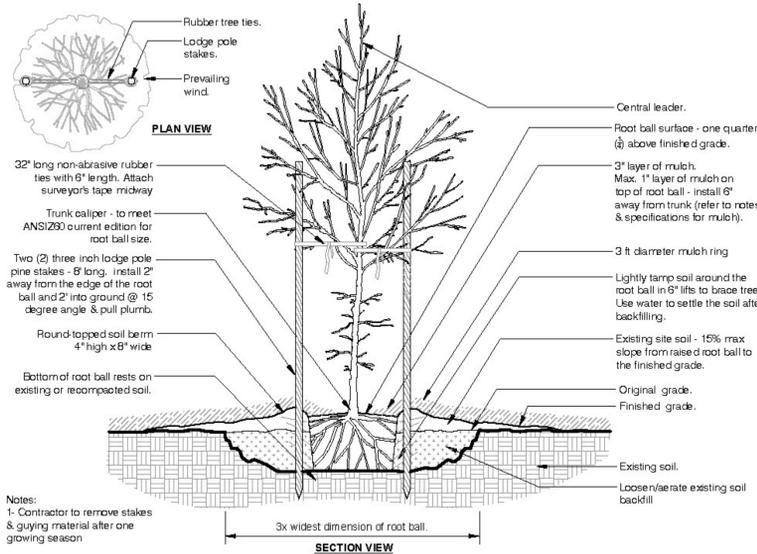
MATTI RUKHOLM, P.L.A.
FLORIDA REG. LANDSCAPE ARCHITECT No.: 6667261

OWNER:
CITY OF WINTER GARDEN
300 WEST PLANT STREET
WINTER GARDEN, FL 34787

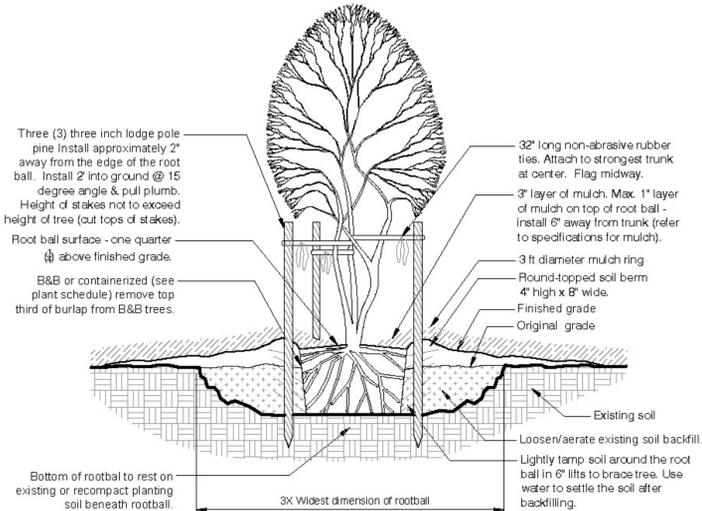
PROJECT:
BOYD STREET
PARKING AREA

LANDSCAPE PLAN

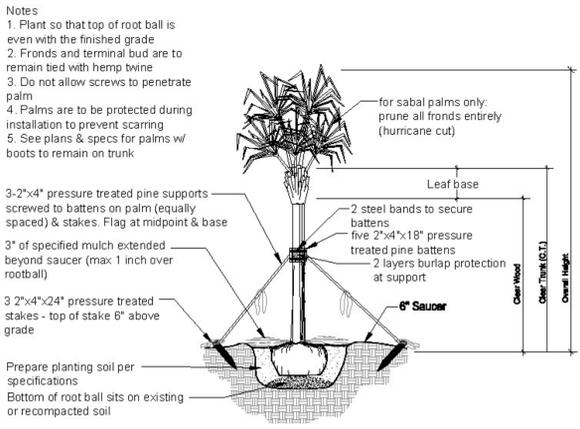
SHEET NUMBER
L.1
OF 10 SHEETS



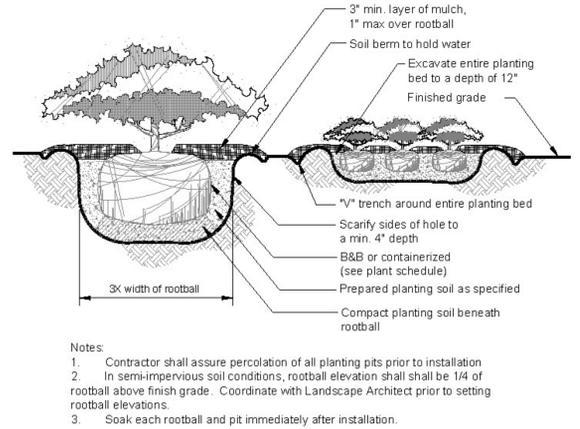
1 TREE STAKING AND PLANTING DETAIL
 N.T.S. P-BO-04



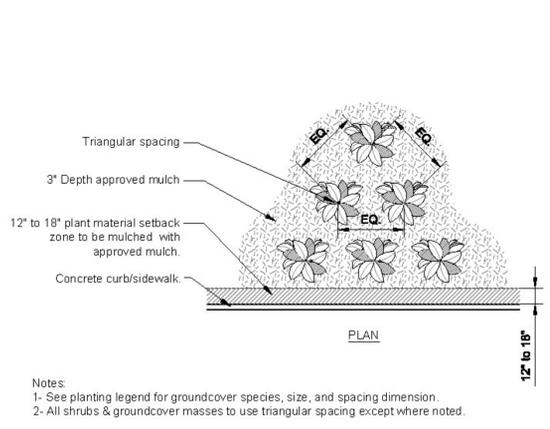
2 MULTI-TRUNK TREE PLANTING DETAIL
 N.T.S. P-BO-06



3 PALM TREE DETAIL
 1/2" = 1'-0" P-BO-15



4 SHRUB & GROUNDCOVER PLANTING DETAIL
 N.T.S. P-BO-02

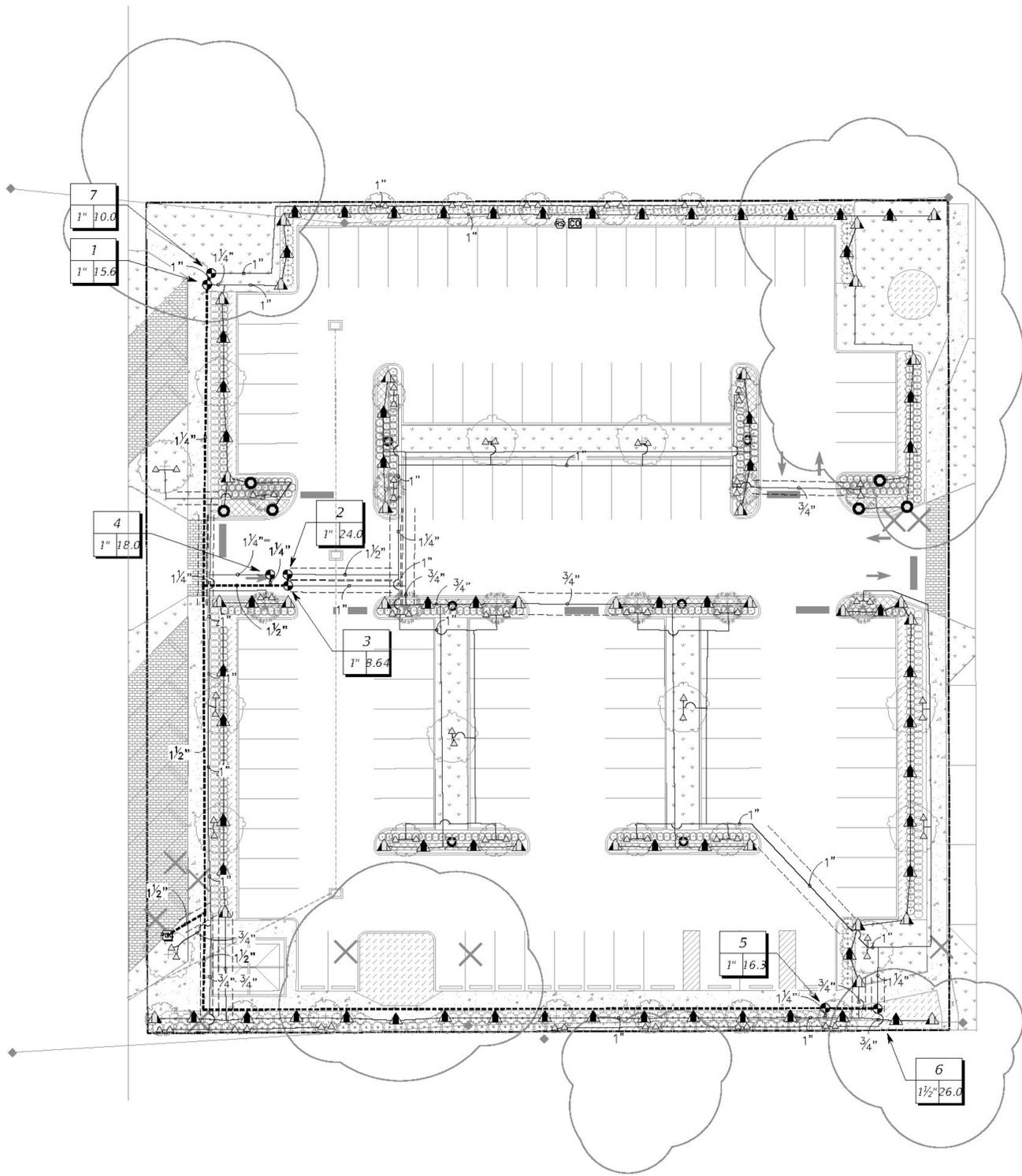


5 GROUNDCOVER
 N.T.S. P-BO-05

LANDSCAPE INSTALLATION NOTES

- All plant material shall conform to ANSI Z60.1. Plant material shall meet or exceed the standards for Florida No. 1 as set out in the most current edition of "Grades and Standards for Nursery Plants Part 1 and Part 2.", State of Florida, Department of Agriculture, Tallahassee. All trees shall have a Florida No. 1 or better "Grades and Standards" certification tag attached at time of delivery through final inspection. All trees and shrubs shall have well-developed leaders and tops and roots characteristic of the species, cultivar or variety and shall show evidence of proper nursery pruning. All plant materials must be free of insects, diseases, mechanical injuries and other objectionable features at the time of planting.
- All trees/shrubs must be installed according to ANSI A300 standards
- All plant material shall be container grown unless otherwise specified and purchased and/or grown at a location that allowed the trees to become adapt to the local environment for application on this site.
- All planting beds shall receive a 3" layer (1" over root ball) mini pine bark mulch and shall be weed free. Mulch shall be Grade B or better.
- The Landscape Contractor shall be responsible for verification of all quantities on the plant schedule. In the event of a conflict between quantities on the plant schedule and the plans, the plans shall take precedence and the discrepancy shall be brought to the attention of the landscape architect prior to bid. Any deviation from these plans must be approved by the landscape architect or owner's representative. The Contractor shall be responsible for verifying and calculating all material quantities including, but not limited to, sod and mulch.
- The Landscape Contractor is responsible for compliance with all applicable building codes, ordinances and local regulations. The contractor shall be responsible for obtaining all necessary permits to perform the work.
- The Landscape Contractor is responsible for inspection of existing conditions and promptly reporting all discrepancies and improper conditions (wetness, muck, debris, etc.) to landscape architect prior to bidding. Contractor is responsible for soil analysis prior to installation of plantings, and is responsible for all soil amendments to conform to specifications.
- Prior to the start of construction, the Landscape Contractor shall be responsible for familiarizing themselves with the location of all utilities (underground and overhead). The exact location of all utilities and underground irrigation sprinklers and pipes may not be indicated on drawings. The Landscape Contractor shall protect utility services which must remain operational and shall be responsible for their replacement if damaged by the Landscape Contractor.
- The Landscape Contractor shall be responsible for fine grading all landscape areas, and eliminating all bumps, depressions, sticks, stones, concrete, and other debris to the satisfaction of the Landscape Architect. All inorganic debris that may damage or inhibit the growth of plant material will be removed from all planting beds. Sod shall not be installed until final grades have been approved.
- New sod shall match existing adjacent species as needed and as approved by Landscape Architect. Contractor shall determine exact quantities of sod in the field. Sod shall be clean and free of weeds, pests, and diseases.
- The Landscape Contractor shall maintain all lawn areas (sod/seed), planting beds, ground covers, shrubs, palms, and trees until final acceptance including: watering, weeding, fertilizing, mowing (maintain 3" height or as specified) and edging, insect and disease control, mulching (3" depth or as specified), maintenance of tree stakes and braces, and maintenance of tree rings per tree planting detail.
- The Landscape Contractor is responsible for ensuring all plant material is adequately watered: at time of planting, during plant establishment, and until final acceptance.
- Contractor shall remove tree supports, stakes, braces, guys, tags, tape, upon plant material becoming established and prior to final acceptance.
- Plant material shall be guaranteed for one year after planting.

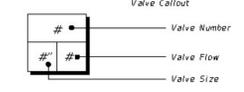
1	06-24-2021	IRRIG - MR	CPWG ENGINEERING, INC. 1221 E. BROADWAY STREET OVIEDO, FL 32765 407-604-3224		OWNER: CITY OF WINTER GARDEN 300 WEST PLANT STREET WINTER GARDEN, FL 34787	PROJECT: BOYD STREET PARKING AREA	LANDSCAPE DETAILS	SHEET NUMBER	
2	07-29-2021	100% SUBMITTAL REVIEW COMMENTS						MATTI RUKHOLM, P.L.A. FLORIDA REG. LANDSCAPE ARCHITECT No.: 6667261	L.2
3	08-11-2021	ADDL. 100% SUBMITTAL REVIEW COMMENTS						OF 3 SHEETS	
NO.	DATE	REVISION							



IRRIGATION SCHEDULE

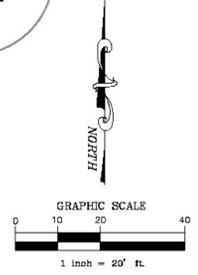
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
	Rain Bird R-VAN-STRIP RD-12-SAM-P45-NP Shrub Rotary, 5' x 15' (LCS and RCS), 5' x 30' (SST) Hand Adjustable Multi-Stream Rotary w/ RD1800 shrub spray on 12.0" pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet. W/ Non-Potable Purple Cap	92	45
	Rain Bird R-VAN14 RD-12-SAM-P45-NP Shrub Rotary, 8'-14' 45VA"-270VA" and 360VA" Hand Adjustable Multi-Stream Rotary w/RD1800 shrub spray body on 12.0" pop-up, with check valve and 45 psi in-stem pressure regulator. 1/2" NPT Female Threaded Inlet. With Non-Potable Purple Cap.	6	45
	Rain Bird PRS-NP-1400 Flood Bubbler with pressure regulating device, and non-potable purple cap.	78	30

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Rain Bird PESBR 1", 1-1/2", and 2" Durable Chlorine-Resistant Valves for Reclaimed Water Applications. With Scrubber Mechanism Technology, and Purple Flow Control Handle.	7
	Hunter PC-400 Light Commercial & Residential Controller, 120 VAC, Outdoor model. Install on power pole and lock. Key to be delivered to City.	1
	Hunter MINI-CLIK Rain Sensor, mount as noted	1
	Water Meter 1" Connect to reclaimed water line	1
---	Irrigation Lateral Line: PVC Schedule 40	3,189 l.f.
---	Irrigation Mainline: PVC Schedule 40	471.6 l.f.
---	Pipe Sleeve: PVC Schedule 40	297.9 l.f.



IRRIGATION NOTES

- Irrigation is from the Point of Connection (POC) only. Refer to plan for POC location.
- Contractor shall notify Landscape Architect immediately if water pressure is below 70 PSI or above 80 PSI.
- Irrigation equipment shown in hardscape and outside property lines for clarity only. All irrigation shall be installed within landscape areas unless noted within a sleeve.
- This plan is diagrammatic. The exact location of valves and irrigation heads are to be determined in the field by the contractor. Do not scale drawing.
- All components to be installed as per manufacturer's recommendations.
- Refer to manufacturer's installation details.
- Refer to manufacturer's catalog for performance specifications.
- All head spray patterns shall be adjusted to eliminate all over spray onto hardscape & roadway surfaces.
- Mainline depth to be no less than 18". Lateral line depth to be no less than 12". Backfill with rock free soil and compact to 90% of the maximum density for the material used as determined by ASTM D-698 (Standard).
- Allow 12" minimum space between heads and edge of sidewalk. Allow 1" minimum space between head and other adjacent pavement.
- Electric control valves to be covered with 12" valve box flush with grade.
- Wiring between controller and remote control valve shall be in conduit. Conduit shall have a minimum 12" cover. All wiring shall be 14 gauge or larger per specifications.
- Tracer wire shall be installed on all mains and laterals.
- Electrical wiring shall be installed in the same trench as the pipe, install wire above pipe, taped to the pipe every 10'.
- Locate drain valves at the lowest point(s) of elevation within each section.
- Coordinate with owner when programming controller. Watering times shall be from midnight to early morning.
- Locate valves as far back from back of curb as possible and conceal from view to the greatest extent possible. Install all valves within turf or planting areas.
- Wire splice connections to be waterproof.
- All pipes run underneath hardscape shall be installed inside sleeves.
- Sleeve inside diameter shall be two times the size of the outside diameter of the pipe(s) going through it with a minimum sleeve size of 3". Sleeves to extend 12" past past the hard surface and are to be marked with flags.
- Install all components as per local, state, and federal codes.
- All electrical wire shall be for 110/ 220 volt service. Wiring shall be installed by a licensed and competent electrician and installed to code.
- All work performed shall conform to applicable City building and plumbing codes.
- Contractor is responsible for his/her own take-offs and is to verify all quantities. In the event of a conflict between the quantities on the irrigation schedule and the plans, the plans shall take precedence and the discrepancy shall be brought to the attention of the Landscape Architect prior to bid.
- Items such as wiring, valve boxes, connectors etc. are considered incidental to construction and are the responsibility of the contractor.
- Care is to be taken when digging around near existing tree roots. Contractor to hand dig around existing tree roots to minimize damage.
- Prior to construction, Contractor to establish the location of all utility and service lines within work area(s). All damage to utilities as a result of construction are responsibility of the Contractor. Necessary repairs must be undertaken at no additional cost to the owner.
- All air/vacuum relief valves, valves, pressure reducing valves, pumps, pump control valves, etc. must be tagged or labeled indicating whether it is on the reclaimed water or potable water system.



REFER TO IR.2 FOR IRRIGATION DETAILS

NO.	DATE	REVISION
1	06-24-2021	IRRI - MR
2	07-29-2021	100% SUBMITTAL REVIEW COMMENTS
3	08-11-2021	ADDL. 100% SUBMITTAL REVIEW COMMENTS

CPWG ENGINEERING, INC.
1221 E. BROADWAY STREET
OVIEDO, FL 32765
407-604-3224



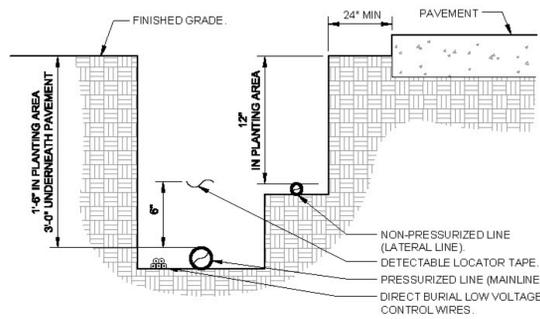
MATTI RUKHOLM, P.L.A.
FLORIDA REG. LANDSCAPE ARCHITECT No. 6667261

OWNER:
CITY OF WINTER GARDEN
300 WEST PLANT STREET
WINTER GARDEN, FL 34787

PROJECT:
BOYD STREET
PARKING AREA

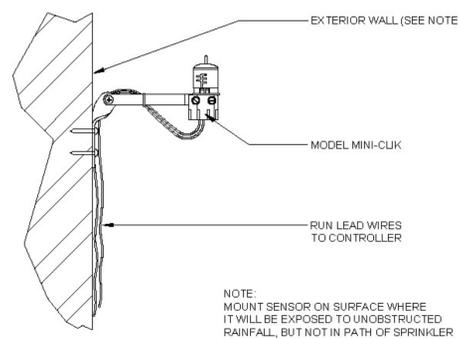
IRRIGATION PLAN

SHEET NUMBER
IR.1
OF 10 SHEETS



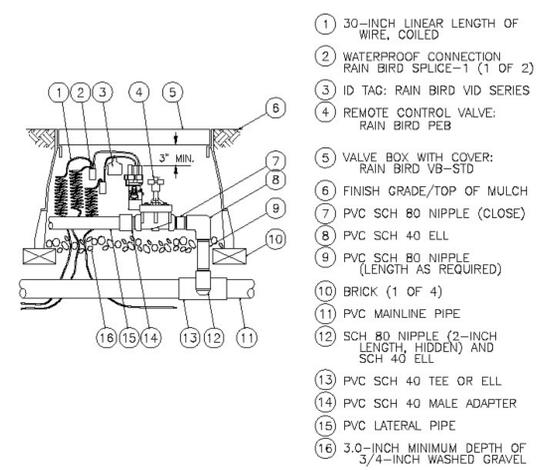
NOTES:
 1- SEE IRRIGATION LEGEND FOR MAINLINE AND LATERAL LINE PIPE SIZE AND TYPE.
 2- DIRECT BURIAL CONTROL WIRES SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT IF REQUIRED.
 3- 2-WIRE IRRIGATION WIRE SHALL BE INSTALLED IN SCH. 40 PVC ELECTRICAL CONDUIT.
 4- DETECTABLE LOCATOR TAPE SHALL BE LOCATED SIX INCHES (6") ABOVE THE ENTIRE MAINLINE RUN.

1 IRRIGATION TRENCHING
 NTS P-BO-07



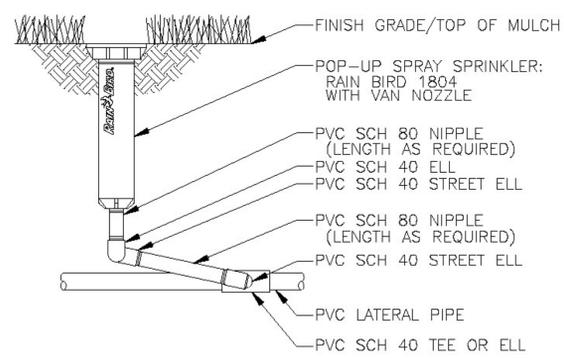
NOTE:
 MOUNT SENSOR ON SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN PATH OF SPRINKLER SPRAY.

2 MINI-CLK RAIN SENSOR
 NTS P-BO-10

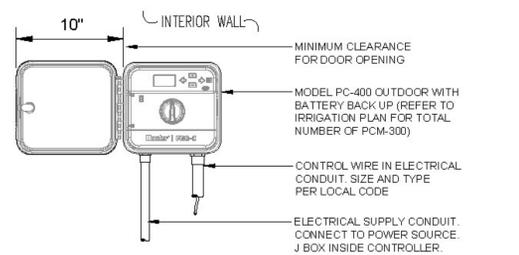


- 1 3/8-INCH LINEAR LENGTH OF WIRE, COILED
- 2 WATERPROOF CONNECTION RAIN BIRD SPLICE-1 (1 OF 2)
- 3 ID TAG: RAIN BIRD VID SERIES
- 4 REMOTE CONTROL VALVE: RAIN BIRD PEB
- 5 VALVE BOX WITH COVER: RAIN BIRD VB-STD
- 6 FINISH GRADE/TOP OF MULCH
- 7 PVC SCH 80 NIPPLE (CLOSE)
- 8 PVC SCH 40 ELL
- 9 PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- 10 BRICK (1 OF 4)
- 11 PVC MAINLINE PIPE
- 12 SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
- 13 PVC SCH 40 TEE OR ELL
- 14 PVC SCH 40 MALE ADAPTER
- 15 PVC LATERAL PIPE
- 16 3.0-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL

3 ELECTRIC REMOTE-CONTROL VALVE - PEB SERIES
 NTS P-BO-13

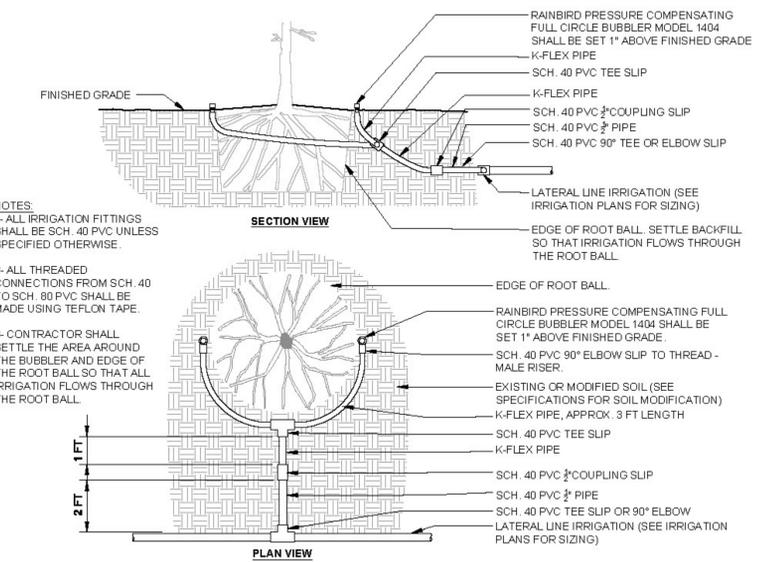


4 POP-UP SPRAY SPRINKLER
 NTS P-BO-66



NOTE
 MOUNT CONTROLLER WITH LCD SCREEN AT EYE LEVEL (WHERE POSSIBLE). CONTROLLER SHALL BE HARD-WIRED TO GROUND 110 VAC SOURCE. POWER SOURCE BY MISSOURI CERTIFIED & LICENSED ELECTRICIAN. IRRIGATION CONTRACTOR TO COORDINATE LOCATION & POWER SUPPLY WITH CLIENT.

5 HUNTER PRO-C CONTROLLER - INTERIOR INSTALLATION
 N.T.S. P-BO-68



NOTES:
 1- ALL IRRIGATION FITTINGS SHALL BE SCH. 40 PVC UNLESS SPECIFIED OTHERWISE.
 2- ALL THREADED CONNECTIONS FROM SCH. 40 TO SCH. 80 PVC SHALL BE MADE USING TEFLON TAPE.
 3- CONTRACTOR SHALL SETTLE THE AREA AROUND THE BUBBLER AND EDGE OF THE ROOT BALL SO THAT ALL IRRIGATION FLOWS THROUGH THE ROOT BALL.

6 IRRIGATION BUBBLER (2) W/ LAYOUT
 NTS P-PL-TRE-08

NO.	DATE	REVISION
1	06-24-2021	IRRI - MR
2	07-29-2021	100% SUBMITTAL REVIEW COMMENTS
3	08-11-2021	ADDL. 100% SUBMITTAL REVIEW COMMENTS

CPWG ENGINEERING, INC.
 1221 E. BROADWAY STREET
 OVIEDO, FL 32765
 407-604-3224



MATTI RUKHOLM, P.L.A.
 FLORIDA REG. LANDSCAPE ARCHITECT No. 6667261

OWNER:
 CITY OF WINTER GARDEN
 300 WEST PLANT STREET
 WINTER GARDEN, FL 34787

PROJECT:
 BOYD STREET
 PARKING AREA

IRRIGATION
 DETAILS

- TYPE**
- ▣ QUAZITE FLUSH MOUNTED PULL BOX, 12" x 20", 8000 LB RATED, COVER LOGO "ELECTRIC", ITEM 4FEA2, MODEL PG1118Z80109.
 - F1 SINGLE PRINCETON 165LED POST-TOP FIXTURE ON HAMILTON 5400 SERIES POLE, PROVIDED AND INSTALLED BY CITY, BASE INSTALLED BY CONTRACTOR.
 - F2 DOUBLE PRINCETON 165LED POST-TOP FIXTURE ON HAMILTON 5400 SERIES POLE, DOUBLE STANCHION FOR 2 FIXTURES, POLE AND FIXTURE PROVIDED AND INSTALLED BY CITY, BASE PROVIDED AND INSTALLED BY CONTRACTOR.
 - BASE SEMINOLE PRECAST 18" x 36" BASE, (4) #4 VERT, #3 TIES 10" OC, WITH CONDUIT PATH TO CENTER, EXTEND CONDUIT TO PULL BOX. TYPICAL OF ALL PROPOSED FIXTURES.

ALL EXISTING PARKING LIGHTING TO BE REMOVED.

NEW FLUSH MOUNTED LIGHTING CIRCUIT PULLBOX 1' X 1' (TYP)

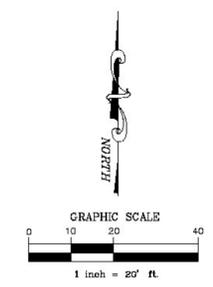
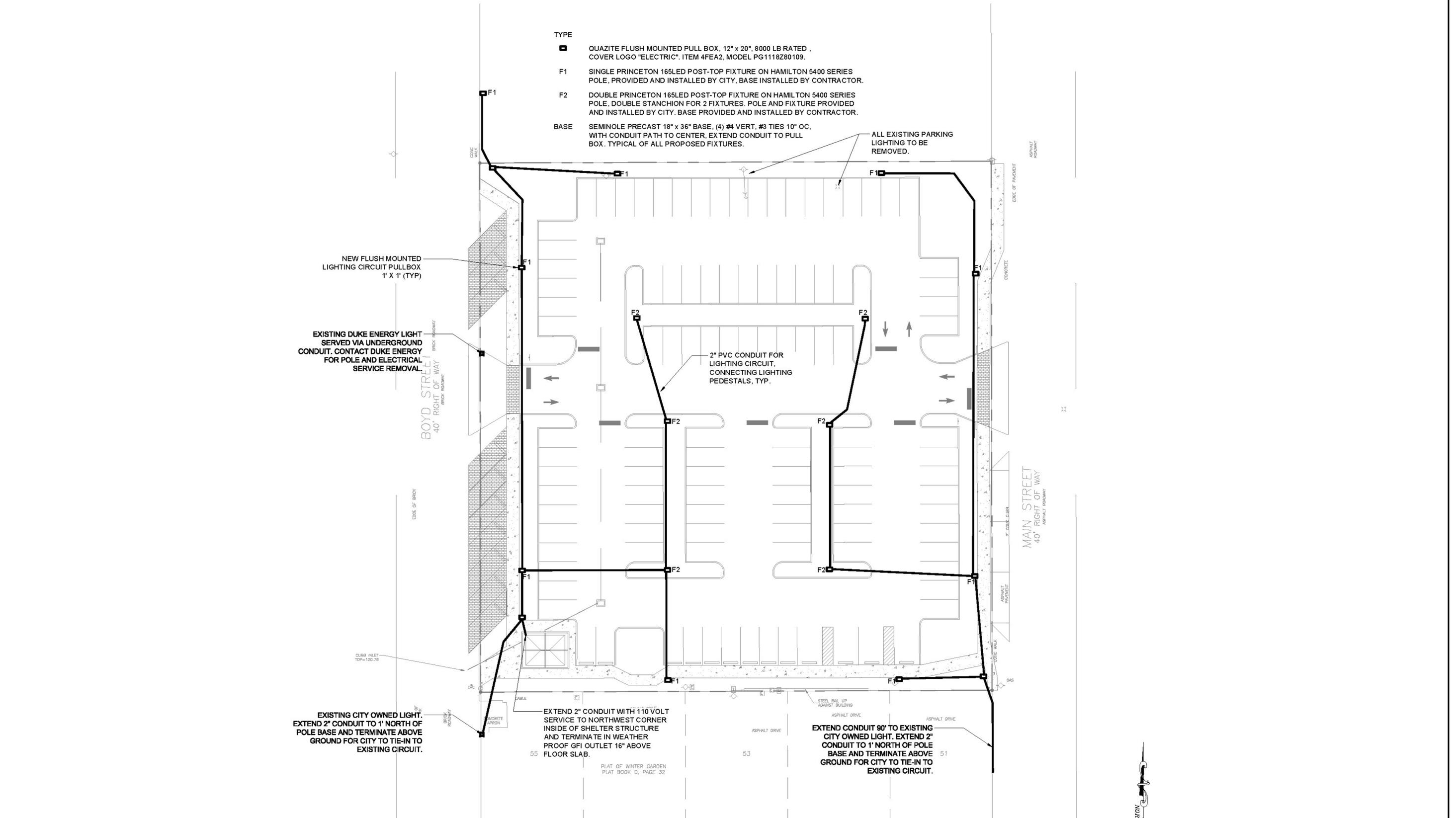
EXISTING DUKE ENERGY LIGHT SERVED VIA UNDERGROUND CONDUIT. CONTACT DUKE ENERGY FOR POLE AND ELECTRICAL SERVICE REMOVAL

2" PVC CONDUIT FOR LIGHTING CIRCUIT, CONNECTING LIGHTING PEDESTALS, TYP.

EXISTING CITY OWNED LIGHT. EXTEND 2" CONDUIT TO 1' NORTH OF POLE BASE AND TERMINATE ABOVE GROUND FOR CITY TO TIE-IN TO EXISTING CIRCUIT.

EXTEND 2" CONDUIT WITH 110 VOLT SERVICE TO NORTHWEST CORNER INSIDE OF SHELTER STRUCTURE AND TERMINATE IN WEATHER PROOF GFI OUTLET 16" ABOVE FLOOR SLAB.

EXTEND CONDUIT 90' TO EXISTING CITY OWNED LIGHT. EXTEND 2" CONDUIT TO 1' NORTH OF POLE BASE AND TERMINATE ABOVE GROUND FOR CITY TO TIE-IN TO EXISTING CIRCUIT.



1	06-24-2021	IRRI - MR
2	07-29-2021	100% SUBMITTAL REVIEW COMMENTS
3	08-11-2021	ADDL. 100% SUBMITTAL REVIEW COMMENTS
4	09-29-2021	ADDED 110V SERVICE TO SHELTER STRUCTURE PER COMMENTS
NO.	DATE	REVISION

CPWG ENGINEERING, INC.
1221 E. BROADWAY STREET
OVIEDO, FL 32765
407-604-3224



ROLAND RAYMUNDO, P.E.
FLORIDA REG. PROFESSIONAL ENGINEER NO.: 45981

OWNER:
CITY OF WINTER GARDEN
300 WEST PLANT STREET
WINTER GARDEN, FL 34787

PROJECT:
BOYD STREET
PARKING AREA

ELECTRICAL SITE
LIGHTING PLAN

SHEET NUMBER
E.1
OF 10 SHEETS



5400 HAMILTON SERIES

ORNAMENTAL POLE

DIMENSIONS	5 YEAR WARRANTY	UL LISTED	EEL LISTED	CLICK FOR FAC'S
22" Ø 43" HULL				

JOB NAME _____

FIXTURE TYPE _____

MEMO _____

BUILD A PART NUMBER														
ORDERING EXAMPLE: 5414FP5-1B8-BCC-GFLPIUC-SH/BKCT														
Base Mount	Height	Shaft	Wall Thickness	Post Center Cap	Option Burial	Option Protocol	Option Receptacle	Option Pole Holder	Option Banner Arms	Option Planter Arms	Option Sign Arms	Option Sign Bracket	Option Sign Weather Hook	Finish

- Base Model**
- 54
- Height (in feet)**
- 8 -10 -12 -14
 - 16 -18 -20 -22
- Shaft**
- TS 5'-3" Tapered Smooth
 - TS4 5'-4" Tapered Smooth
 - T6 6'-3" Tapered Smooth
 - T64 6'-4" Tapered Smooth
 - PS 5' Straight Smooth
 - P6 6' Straight Fluted
 - P6F 6' Straight Fluted
 - ETP6F 6'-4" Extruded Tapered Fluted
- Not available in 12' wall.
*Only available in 250 mil
*Height increased to 17", 19", 21", 23", 25", 27", 29", 31", 33", 35", 37", 39", 41", 43", 45", 47", 49", 51", 53", 55", 57", 59", 61", 63", 65", 67", 69", 71", 73", 75", 77", 79", 81", 83", 85", 87", 89", 91", 93", 95", 97", 99", 101", 103", 105", 107", 109", 111", 113", 115", 117", 119", 121", 123", 125", 127", 129", 131", 133", 135", 137", 139", 141", 143", 145", 147", 149", 151", 153", 155", 157", 159, 161, 163, 165, 167, 169, 171, 173, 175, 177, 179, 181, 183, 185, 187, 189, 191, 193, 195, 197, 199, 201, 203, 205, 207, 209, 211, 213, 215, 217, 219, 221, 223, 225, 227, 229, 231, 233, 235, 237, 239, 241, 243, 245, 247, 249, 251, 253, 255, 257, 259, 261, 263, 265, 267, 269, 271, 273, 275, 277, 279, 281, 283, 285, 287, 289, 291, 293, 295, 297, 299, 301, 303, 305, 307, 309, 311, 313, 315, 317, 319, 321, 323, 325, 327, 329, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 351, 353, 355, 357, 359, 361, 363, 365, 367, 369, 371, 373, 375, 377, 379, 381, 383, 385, 387, 389, 391, 393, 395, 397, 399, 401, 403, 405, 407, 409, 411, 413, 415, 417, 419, 421, 423, 425, 427, 429, 431, 433, 435, 437, 439, 441, 443, 445, 447, 449, 451, 453, 455, 457, 459, 461, 463, 465, 467, 469, 471, 473, 475, 477, 479, 481, 483, 485, 487, 489, 491, 493, 495, 497, 499, 501, 503, 505, 507, 509, 511, 513, 515, 517, 519, 521, 523, 525, 527, 529, 531, 533, 535, 537, 539, 541, 543, 545, 547, 549, 551, 553, 555, 557, 559, 561, 563, 565, 567, 569, 571, 573, 575, 577, 579, 581, 583, 585, 587, 589, 591, 593, 595, 597, 599, 601, 603, 605, 607, 609, 611, 613, 615, 617, 619, 621, 623, 625, 627, 629, 631, 633, 635, 637, 639, 641, 643, 645, 647, 649, 651, 653, 655, 657, 659, 661, 663, 665, 667, 669, 671, 673, 675, 677, 679, 681, 683, 685, 687, 689, 691, 693, 695, 697, 699, 701, 703, 705, 707, 709, 711, 713, 715, 717, 719, 721, 723, 725, 727, 729, 731, 733, 735, 737, 739, 741, 743, 745, 747, 749, 751, 753, 755, 757, 759, 761, 763, 765, 767, 769, 771, 773, 775, 777, 779, 781, 783, 785, 787, 789, 791, 793, 795, 797, 799, 801, 803, 805, 807, 809, 811, 813, 815, 817, 819, 821, 823, 825, 827, 829, 831, 833, 835, 837, 839, 841, 843, 845, 847, 849, 851, 853, 855, 857, 859, 861, 863, 865, 867, 869, 871, 873, 875, 877, 879, 881, 883, 885, 887, 889, 891, 893, 895, 897, 899, 901, 903, 905, 907, 909, 911, 913, 915, 917, 919, 921, 923, 925, 927, 929, 931, 933, 935, 937, 939, 941, 943, 945, 947, 949, 951, 953, 955, 957, 959, 961, 963, 965, 967, 969, 971, 973, 975, 977, 979, 981, 983, 985, 987, 989, 991, 993, 995, 997, 999, 1001, 1003, 1005, 1007, 1009, 1011, 1013, 1015, 1017, 1019, 1021, 1023, 1025, 1027, 1029, 1031, 1033, 1035, 1037, 1039, 1041, 1043, 1045, 1047, 1049, 1051, 1053, 1055, 1057, 1059, 1061, 1063, 1065, 1067, 1069, 1071, 1073, 1075, 1077, 1079, 1081, 1083, 1085, 1087, 1089, 1091, 1093, 1095, 1097, 1099, 1101, 1103, 1105, 1107, 1109, 1111, 1113, 1115, 1117, 1119, 1121, 1123, 1125, 1127, 1129, 1131, 1133, 1135, 1137, 1139, 1141, 1143, 1145, 1147, 1149, 1151, 1153, 1155, 1157, 1159, 1161, 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