

SITE PLAN FOR **SUMMERDALE DRIVE** 2754 SUMMERDALE DRIVE CLEARWATER, FL 33761

INDEX OF DRAWINGS

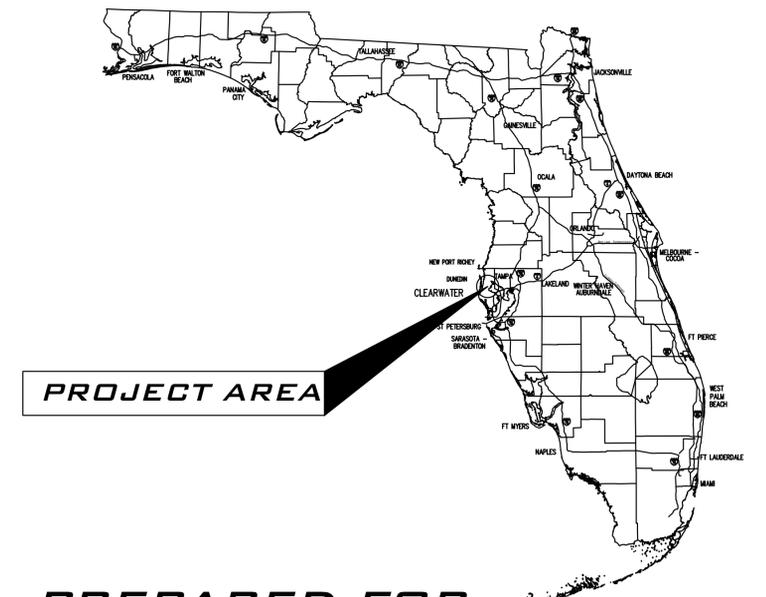
<u>DRAWING TITLE</u>	<u>SHEET NO.</u>
COVER SHEET	1
EX. COND./DEMO. & EROSION CONTROL PLAN	2
SITE PLAN	3
PAVING, GRADING & DRAINAGE PLAN	4
UTILITY PLAN	5
CONSTRUCTION DETAILS	6-7
SPECIFICATIONS	8

VICINITY MAP



SECTION 30, TOWNSHIP 28S, RANGE 16E
CLEARWATER, PINELLAS COUNTY

LOCATION MAP



PREPARED FOR

**2754 SUMMERDALE LLC
2770 SUMMERDALE DRIVE, STE A
CLEARWATER, FL 33761**

Nov 08, 2022 - 6:57pm I:\CAD Projects\ProjectA_SBP x Drive\2022\SE22199.00 2754 Summerdale Drive\Engineering\Work\SE22199-001.dwg

REV.#	DATE	REVISION	BY



565 SOUTH HERCULES AVENUE
CLEARWATER, FL 33764
PHONE 727.822.4151
WWW.DEUELENGINEERING.COM

I, CHRISTOPHER A. CHIN, HEREBY CERTIFY AS A LICENSED PROFESSIONAL ENGINEER, REGISTERED IN ACCORDANCE WITH FLORIDA STATUTE 471 (481) THAT THE ABOVE PROJECT'S SITE AND/OR CONSTRUCTION PLANS, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, WILL MEET APPLICABLE DESIGN CRITERIA SPECIFIED BY CITY MUNICIPAL ORDINANCE, STATE AND FEDERAL ESTABLISHED STANDARDS. I UNDERSTAND THAT IT IS MY RESPONSIBILITY AS THE PROJECT'S PROFESSIONAL ENGINEER TO PERFORM A QUALITY ASSURANCE REVIEW OF THESE SUBMITTED PLANS.

60% PLAN

CHRISTOPHER A. CHIN, P.E. 84365

A314219900

WORK ORDER NO. SE22199.00	DATE: NOVEMBER 8, 2022
SCALE: N.T.S.	
SHEET NO. 1 OF 8	

LEGEND

S.	SET
F.	FOUND
I.R.	IRON ROD
I.P.	IRON PIPE
N&D	MAIL & DISK
C.M.	CONCRETE MONUMENT
(A)	FIELD MEASUREMENT
A	ARC
A/C	AIR CONDITIONER
AD	AD
ADA	AMERICANS WITH DISABILITIES ACT
BFPD	BACK FLOW PREVENTION DEVICE
BOLL	BOLLARD
B.S.L.	BUILDING SETBACK LINE
C	CHORD
(C)	CALCULATED
CBW	CONCRETE BLOCK WALL
CHB	CHORD BEARING
CL	CENTERLINE
CLF	CORRUGATED METAL FENCE
CMP	CORRUGATED METAL PIPE
C.O.	CONCRETE
CS	CONCRETE SLAB
C.T.	CURE TE
CTV	CABLE TELEVISION
(D)	DEED
DEP	DEPARTMENT OF ENVIRONMENTAL PROTECTION
DHW	DESIGN HIGH WATER
DLW	DESIGN LOW WATER
EL	ELEVATION
FF	FINISHED FLOOR
FHA	FIRE HYDRANT ASSEMBLY
FPC	FLORIDA POWER CORPORATION
GI	GRATE INLET
GAV	GAS VALVE
GM	GAS METER
GV	GATE VALVE
GW	GUY WIRE
INV.	INVERT
LF	LINEAR FEET
LFE	LOWEST FLOOR ELEVATION
LP	LIGHT POLE
(M)	MEASURED
MAS	MASONRY
MES	MITERED END SECTION
MH	MANHOLE
MHWL	MEAN HIGH WATER LINE
NAVJ	NORTH AMERICA
NOVD	NATIONAL GEODETIC VERTICAL DATUM
O/H	OVERHEAD WIRES
O.R.	OFFICIAL RECORD
PB	PLAT BOOK
PS	PAGE/PAGES
POB	POINT OF BEGINNING
PRM	PERMANENT REFERENCE MONUMENT
PVC	POLYVINYL CHLORIDE
R	RADIUS
(R)	RECORD
RCF	REINFORCED CONCRETE PIPE
ROW	RECLAIMED WATER
RNG.	RANGE
R/W	RIGHT-OF-WAY
SAN	SANITARY
SCD	SANITARY CLEAN-OUT
SEC.	SECTION
SF	SQUARE FEET
SHW	SEASONAL HIGH WATER
TBM	TEMPORARY BENCHMARK
TOB	TOP OF BERM
TOS	TOP OF SLOPE
TRANS	TRANSFORMER
TWP	TOWNSHIP
UP	UTILITY POLE
WF	WOOD FENCE
WM	WATER METER

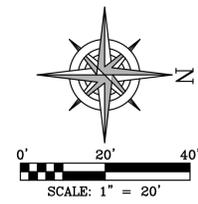
PROPOSED LEGEND

	DIRECTION OF FLOW
	EXISTING ELEVATION
	ELEVATIONS ARE BASED ON NAVD-88
	PROPOSED ELEVATION
	ELEVATION AT TOP OF FEATURE
	ELEVATION AT BOTTOM OF FEATURE

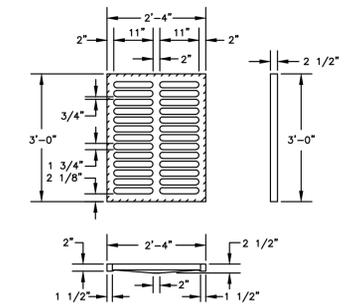
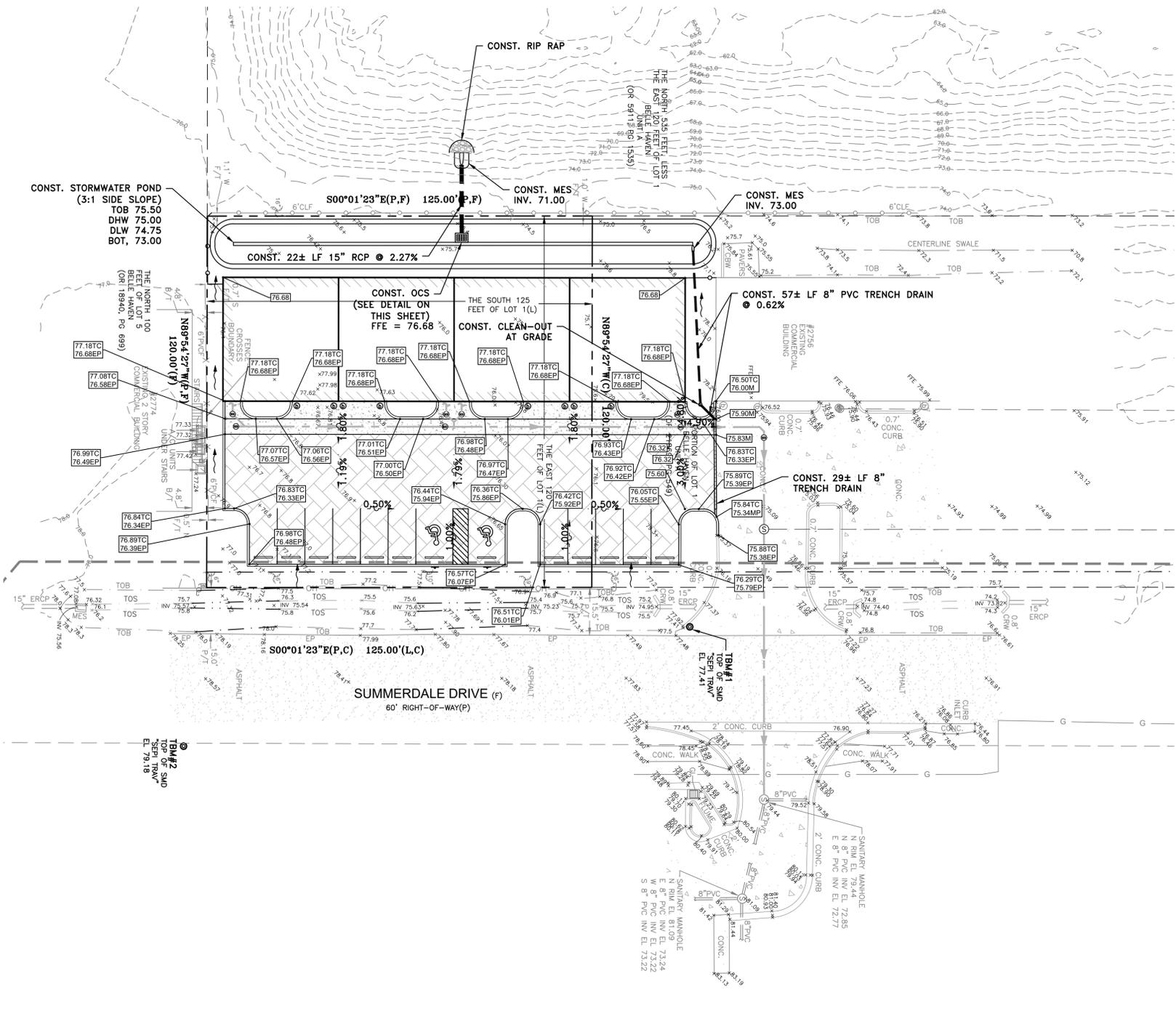
GRADING SUFFIXES:

BW	= BOTTOM OF WALL
EP	= EDGE OF PAVEMENT
G	= GROUND
HP	= HIGH POINT
ME or NEG	= MATCH EXISTING GRADE (ESTIMATED INTERPOLATED VALUE)
MP	= MATCH EXISTING EP
TC	= TOP OF CURB
TS	= TOP OF SIDEWALK
TW	= TOP OF WALL

	6" CHAIN LINK FENCE
	SILT FENCE
	NUMBER OF PROPOSED PARKING SPACES
	REMOVE EXISTING TREE



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NOTES:

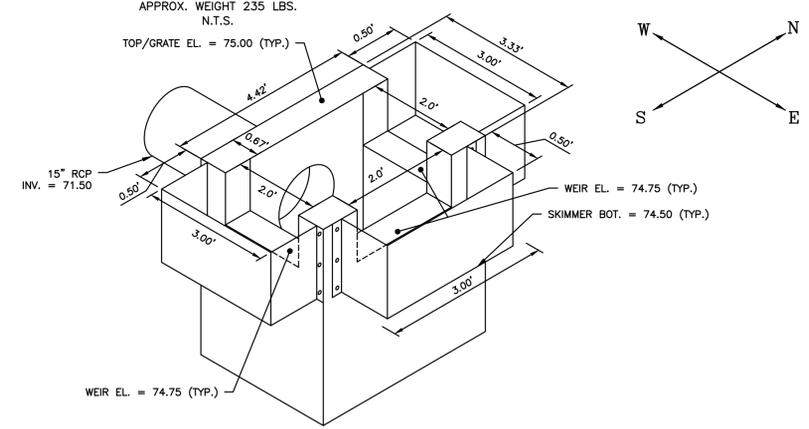
- SKIMMER TO BE FABRICATED FROM ALUMINUM OR STAINLESS STEEL PLATE AND FASTENED SECURELY TO STRUCTURE WITH STAINLESS STEEL ANCHOR BOLTS.
- TOP OF CONTROL STRUCTURE TO BE PROVIDED UPON COMPLETION

NORTH SIDE	EAST SIDE	SOUTH SIDE
SKIMMER WIDTH: 3.00'	SKIMMER WIDTH: 3.00'	SKIMMER WIDTH: 3.00'
SKIMMER DEPTH: 0.50'	SKIMMER DEPTH: 0.50'	SKIMMER DEPTH: 0.50'
TOTAL SKIMMER AREA: 1.50SF	TOTAL SKIMMER AREA: 1.50SF	TOTAL SKIMMER AREA: 1.50SF
WEIR WIDTH: 2.00'	WEIR WIDTH: 2.00'	WEIR WIDTH: 2.00'
WEIR HEIGHT: 0.25'	WEIR HEIGHT: 0.25'	WEIR HEIGHT: 0.25'
TOTAL WEIR AREA: 0.50SF	TOTAL WEIR AREA: 0.50SF	TOTAL WEIR AREA: 0.50SF
SKIMMER AREA TO EQUAL OR EXCEED WEIR AREA	SKIMMER AREA TO EQUAL OR EXCEED WEIR AREA	SKIMMER AREA TO EQUAL OR EXCEED WEIR AREA

FDOT TYPE "C" - CAST IRON GRATE

APPROX. WEIGHT 235 LBS.
 N.T.S.

TOP/GRATE EL. = 75.00 (TYP.)



OUTFALL CONTROL STRUCTURE #3
 SCALE: N.T.S. MODIFIED FDOT TYPE "C" INLET

EXISTING CONDITIONS, AS DEPICTED, WERE TAKEN FROM A BOUNDARY AND TOPOGRAPHIC SURVEY, PREPARED BY DEUEL & ASSOCIATES, A SEPI COMPANY
 LB #8423 DATE OF FIELD SURVEY: 10/04/2022.

REV.#	DATE	REVISION	BY	CHECKED

DEUEL & ASSOCIATES
 A SEPI COMPANY

565 SOUTH HERCULES AVENUE
 CLEARWATER, FL 33764
 PHONE 727.822.4151
 WWW.DEUELENGINEERING.COM
 LICENSED BUSINESS NUMBER 8423

2754 SUMMERDALE WAREHOUSE
 PAVING, GRADING &
 DRAINAGE PLAN
 PINELLAS COUNTY FLORIDA

I, CHRISTOPHER A. CHIN, HEREBY CERTIFY AS A LICENSED PROFESSIONAL ENGINEER, REGISTERED IN ACCORDANCE WITH FLORIDA STATUTE 471 (481) THAT THE ABOVE PROJECT'S SITE AND/OR CONSTRUCTION PLANS, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, WILL MEET APPLICABLE DESIGN CRITERIA SPECIFIED BY CITY MUNICIPAL ORDINANCE, STATE AND FEDERAL ESTABLISHED STANDARDS. I UNDERSTAND THAT IT IS MY RESPONSIBILITY AS THE PROJECT'S PROFESSIONAL ENGINEER TO PERFORM A QUALITY ASSURANCE REVIEW OF THESE SUBMITTED PLANS.

60% PLAN
 CHRISTOPHER A. CHIN, P.E. 84365

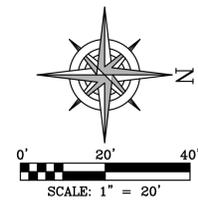
WORK ORDER NO.	SE22.199
DATE:	NOVEMBER 8, 2022
SCALE:	1" = 20'
SHEET NO.	4 OF 8

LEGEND

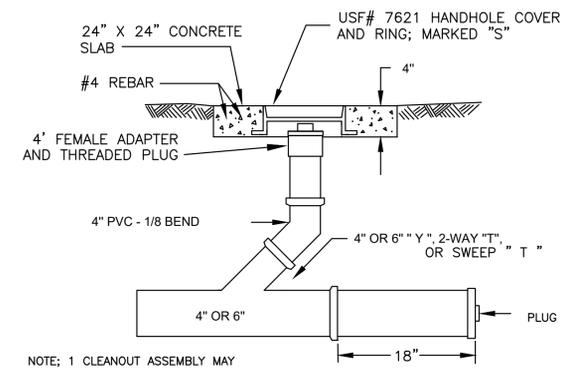
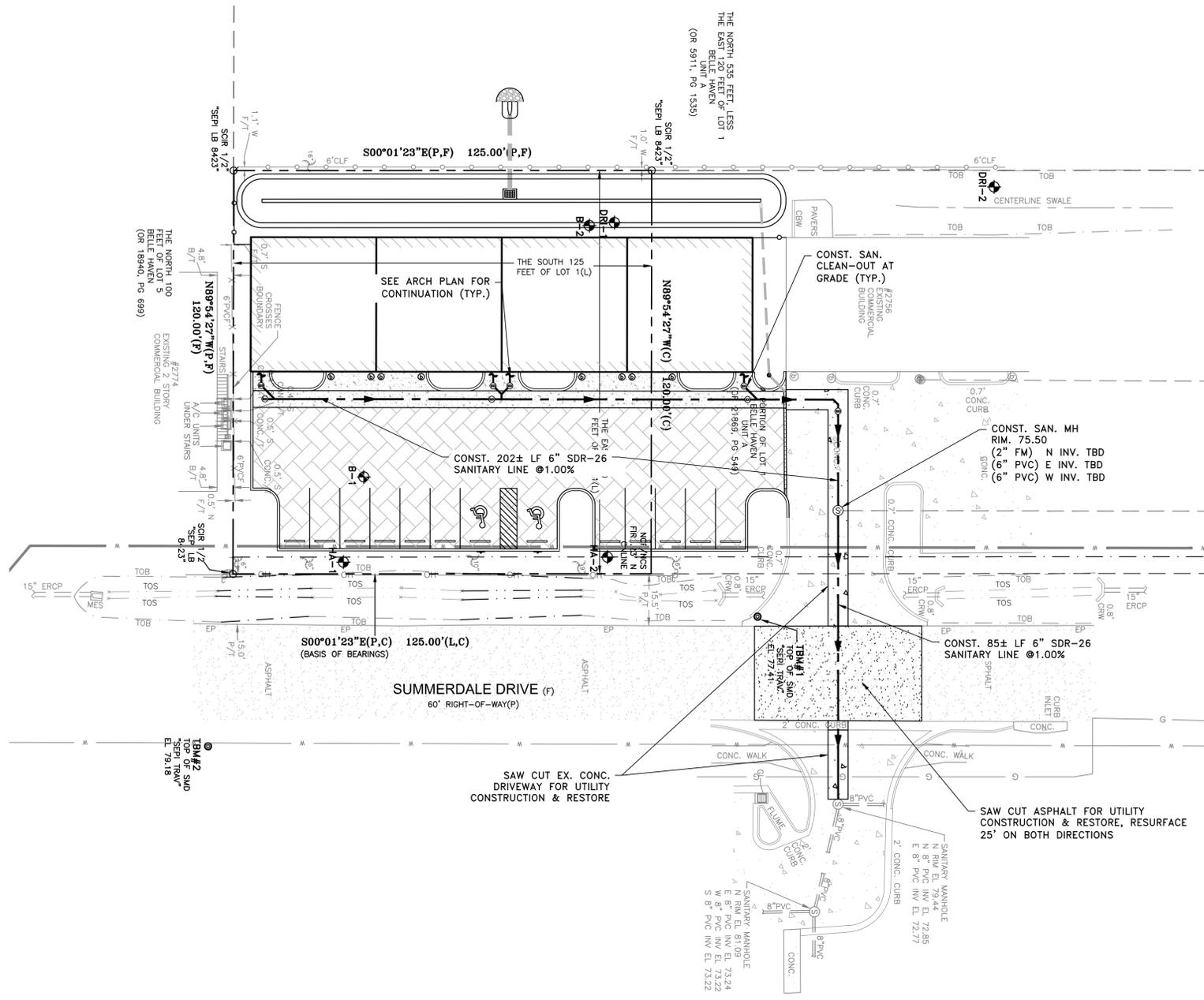
- S. SET
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- IR.P. IRON PIPE
- N&D. NAIL & DISK
- C.M. CONCRETE MONUMENT
- (A) FIELD MEASUREMENT
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- B.L.L. BOLLARD
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- DEP. DEPARTMENT OF ENVIRONMENTAL PROTECTION
- DHW. DESIGN HIGH WATER
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- R. RADIUS
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- SILT FENCE
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- REMOVE EXISTING TREE



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SEWER CLEANOUT DETAIL
 N.T.S.

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DESIGN:	XC
DRAWN:	XC
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DATE:	REVISION
BY:	

DEUEL & ASSOCIATES
 A SEPI COMPANY, A DIVISION OF TRANSYSTEMS

565 SOUTH HERCULES AVENUE
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**2754 SUMMERDALE WAREHOUSE
 UTILITY PLAN**
 PINELLAS COUNTY FLORIDA

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 CHRISTOPHER A. CHIN, P.E. 84365

WORK ORDER NO.	SE22.199
DATE:	NOVEMBER 8, 2022
SCALE:	1" = 20'
SHEET NO.	5 OF 8

Nov 08, 2022 - 7:50pm I:\CAD Projects\Projects\2754 Warehouse Drive\Engineering\Access\SE22.199-UTL.dwg

DEFINITIONS:
Regulatory Speed (in Work Zones)
 The posted speed limit for the work zone on the roadway shall be reduced to the regulatory speed for the work zone. The work zone shall be established in the roadway ahead of the work zone. The work zone shall be established in the roadway ahead of the work zone. The work zone shall be established in the roadway ahead of the work zone.

OVERHEAD WORK:
 Work to be done on a traffic lane when the work zone is used. **OPTION 1 (OVERHEAD WORK USING A MODIFIED LANE CLOSURE)**
 Work to be done on a traffic lane when the work zone is used. **OPTION 2 (OVERHEAD WORK ABOVE AN OPEN TRAFFIC LANE)**
 Work to be done on a traffic lane when the work zone is used.

FLAGGER CONTROL:
 A person who is trained and certified to control traffic in a work zone. **REGULATORY SPEED (IN WORK ZONES)**
 The posted speed limit for the work zone on the roadway shall be reduced to the regulatory speed for the work zone.

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
 INDEX: 102-600 SHEET: 2 of 11

FLAGGER CONTROL:
 A person who is trained and certified to control traffic in a work zone. **REGULATORY SPEED (IN WORK ZONES)**
 The posted speed limit for the work zone on the roadway shall be reduced to the regulatory speed for the work zone.

SURVEY WORK ZONES (CON.):
 Work to be done on a traffic lane when the work zone is used. **GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES**
 INDEX: 102-600 SHEET: 4 of 11

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
 INDEX: 102-600 SHEET: 6 of 11

COMMONLY USED WARNING AND REGULATORY SIGNS IN WORK ZONES
 INDEX: 102-600 SHEET: 6 of 11

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
 INDEX: 102-660 SHEET: 1 of 2

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
 INDEX: 102-660 SHEET: 4 of 2

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
 INDEX: 102-600 SHEET: 2 of 11

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
 INDEX: 102-600 SHEET: 2 of 11

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
 INDEX: 102-600 SHEET: 4 of 11

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 INDEX: 102-600 SHEET: 4 of 11

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 INDEX: 102-600 SHEET: 6 of 11

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
 INDEX: 102-600 SHEET: 6 of 11

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
 INDEX: 102-660 SHEET: 1 of 2

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
 INDEX: 102-660 SHEET: 4 of 2

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
 INDEX: 102-600 SHEET: 2 of 11

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
 INDEX: 102-600 SHEET: 2 of 11

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 INDEX: 102-600 SHEET: 4 of 11

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 INDEX: 102-600 SHEET: 4 of 11

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 INDEX: 102-600 SHEET: 6 of 11

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 INDEX: 102-600 SHEET: 6 of 11

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
 INDEX: 102-660 SHEET: 1 of 2

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 INDEX: 102-660 SHEET: 4 of 2

GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
 INDEX: 102-600 SHEET: 2 of 11

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 INDEX: 102-600 SHEET: 4 of 11

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 INDEX: 102-600 SHEET: 6 of 11

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GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
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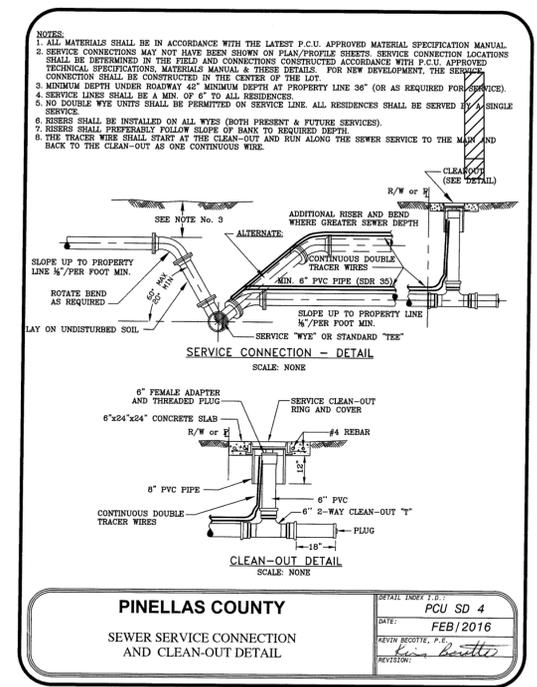
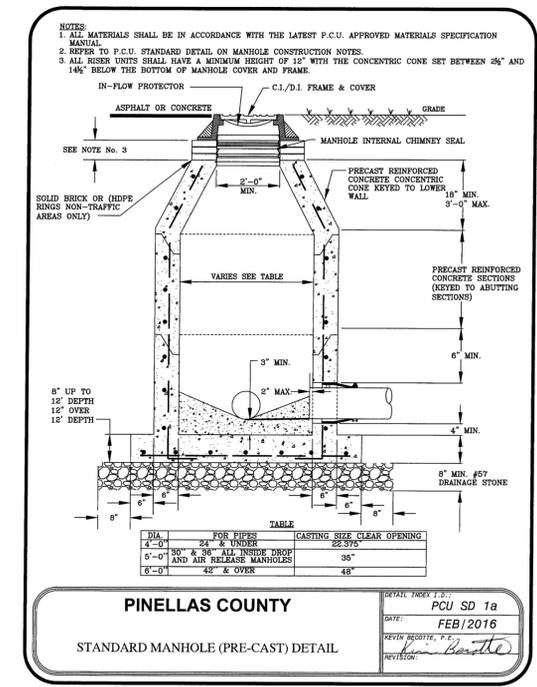
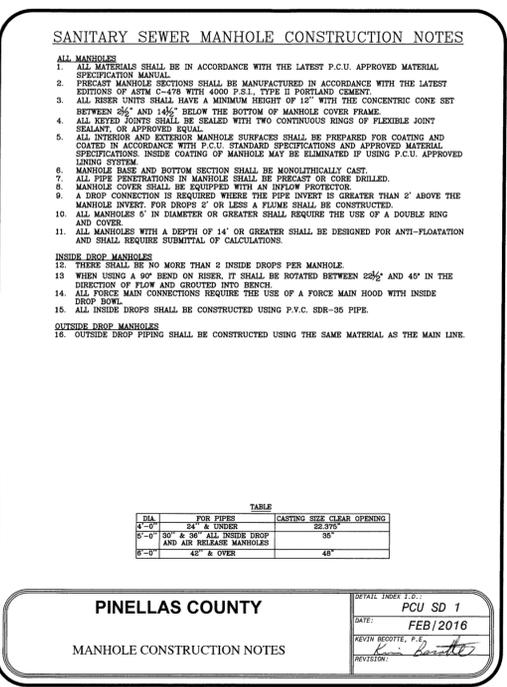
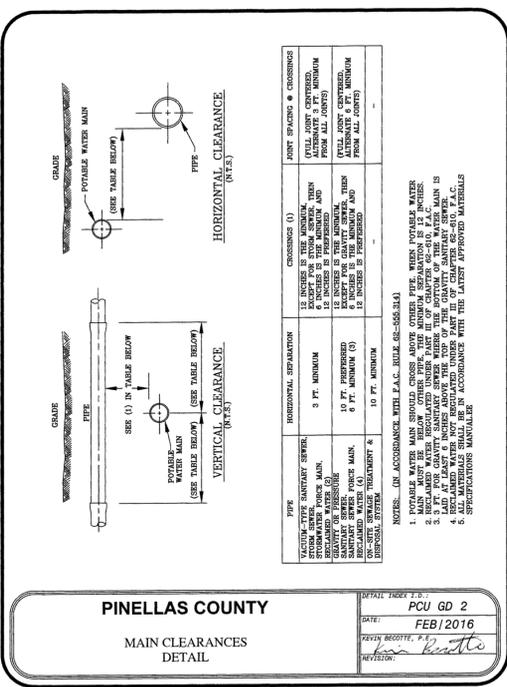
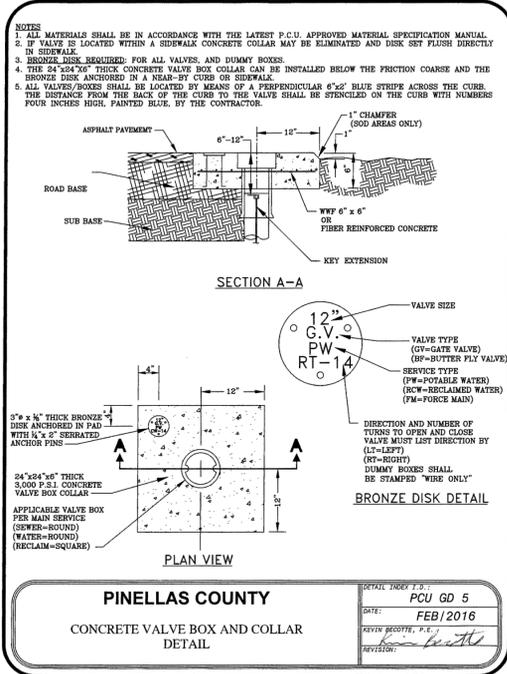
GENERAL INFORMATION FOR TRAFFIC CONTROL THROUGH WORK ZONES
 INDEX: 102-660 SHEET: 4 of 2

DESIGN: XC
 DRAWN: XC
 CHECKED: CAC

DEUEL & ASSOCIATES
 A SEPI COMPANY
 565 SOUTH HERCULES AVENUE
 CLEARWATER, FL 33764
 PHONE 727.822.4151
 WWW.DEUELENGINEERING.COM
 LICENSED BUSINESS NUMBER 8423

2754 SUMMERDALE WAREHOUSE CONSTRUCTION DETAILS
 PINELLAS COUNTY FLORIDA

60% PLAN
 CHRISTOPHER A. CHIN, P.E. 84365
 WORK ORDER NO. SE22.199
 DATE: NOVEMBER 8, 2022
 SCALE: N.T.S.
 SHEET NO. 6 OF 8



PINELLAS COUNTY STORMWATER MANUAL NOTES ON CONSTRUCTION AND MAINTENANCE
(AS TAKEN FROM CHAPTER 6- CATALOGUE OF STORMWATER BEST MANAGEMENT PRACTICES)

6.3 UNDERGROUND STORAGE AND RETENTION:

6.3.6. CONSTRUCTION REQUIREMENTS

THE FOLLOWING CONSTRUCTION PROCEDURES ARE REQUIRED TO AVOID DEGRADATION OF UNDERGROUND RETENTION SYSTEM INFILTRATION CAPACITY DUE TO CONSTRUCTION PRACTICES:

- THE LOCATION OF UNDERGROUND RETENTION SYSTEM SHALL BE CLEARLY MARKED AT THE SITE TO PREVENT UNNECESSARY VEHICULAR TRAFFIC ACROSS THE AREA CAUSING SOIL COMPACTION.
- DURING CONSTRUCTION, EROSION AND SEDIMENT CONTROLS SHALL BE USED TO MINIMIZE THE AMOUNT OF SOIL, ESPECIALLY THE AMOUNT OF FINES, AND DEBRIS ENTERING THE SYSTEM.
- DURING CONSTRUCTION, INLET PIPES SHALL BE TEMPORARILY PLUGGED, TO PREVENT SOIL AND DEBRIS FROM ENTERING THE SYSTEM.
- THE UNDERGROUND RETENTION SYSTEM SHOULD NOT BE PLACED INTO OPERATION UNTIL THE CONTRIBUTING DRAINAGE AREA IS STABILIZED AND THE PRETREATMENT PUMPS ARE CONSTRUCTED.

6.3.1. INSPECTIONS, OPERATION AND MAINTENANCE

(a) **GENERAL:** REGULAR, ROUTINE INSPECTION AND MAINTENANCE IS AN IMPORTANT COMPONENT OF THIS TYPE OF UNDERGROUND SYSTEM TO ENSURE THAT IT FUNCTIONS IN A SATISFACTORY MANNER. THE MAINTENANCE INTERVALS FOR AN UNDERGROUND RETENTION SYSTEM ARE TYPICALLY MORE FREQUENT THAN STANDARD "DRY" RETENTION PONDS. THE PERFORMANCE OF THE UNDERGROUND SYSTEM WILL BE RELATED TO THE EFFECTIVENESS OF THE UP-GRADIENT SEDIMENT/TRASH REMOVAL DEVICES (REFER TO FIGURES 6.2.2 AND 6.2.3), AND THE FREQUENCY OF INSPECTIONS AND MAINTENANCE ACTIVITIES FOR ALL OF THE UNDERGROUND RETENTION SYSTEMS' COMPONENTS.

THE GUIDELINES OUTLINED BELOW ARE INTENDED TO PROVIDE A COMPREHENSIVE SCHEDULE THAT GIVES REASONABLE ASSURANCE THAT THE COUNTY REQUIREMENTS AND RECOMMENDATIONS ARE BEING MET:

- INDICATION OF SYSTEM FAILURE:** STANDING WATER OVER SUB-GRADE SOILS AT THE BOTTOM OF THE UNDERGROUND RETENTION SYSTEM 72 HOURS AFTER A STORM EVENT TYPICALLY INDICATES SYSTEM FAILURE. LONG TERM SYSTEM FAILURES ARE GENERALLY THE RESULT OF INADEQUATE/IMPROPER O&M PROCEDURES WITHIN THE UP-GRADIENT SEDIMENT / TRASH REMOVAL DEVICES, AND/OR WITHIN THE UNDERGROUND RETENTION SYSTEM ITSELF.
- SUB-GRADE SOIL MAINTENANCE:** THE SUB-GRADE SOILS AT THE BOTTOM OF THIS SYSTEM ARE THE ONLY MECHANISM TO PROVIDE WATER QUALITY TREATMENT (SOIL INFILTRATION OF THE RTV). THEREFORE, THE DESIGNED HYDRAULIC CONDUCTIVITY RATES WITHIN THIS SOIL MUST BE MAINTAINED. INSPECTION PORTS AND ACCESS MANHOLES/TRENCH GRATES ARE PROVIDED TO FACILITATE ONGOING INSPECTION AND MAINTENANCE ACTIVITIES. FAILURE TO REPAIR INFLOW/OUTFLOW SCOUR EROSION DAMAGE, OR TO REMOVE DETRIMENTAL MATERIALS (I.E., TRASH, CLAYS, LIME ROCK DEBRIS, ORGANIC MATTER, ETC.), WILL RESULT IN LOWER SOIL HYDRAULIC CONDUCTIVITY RATES, AND SUBSEQUENT SYSTEM FAILURE. MANUAL METHODS CAN BE USED FOR THIS REQUIRED MAINTENANCE. HOWEVER, THE USE OF A VACUUM TRUCK FOR CONTAMINATE REMOVAL MAY BE A MORE PRACTICAL MEANS OF PROVIDING FOR THE REMOVAL OF THESE DETRIMENTAL MATERIALS AND SEDIMENTS. DISPOSAL OF THESE CONTAMINATES SHALL BE IN AN APPROVED LANDFILL FACILITY.
- RECOMMENDED INSPECTION FREQUENCY**
 - AFTER A LARGE STORM EVENT OF GREATER THAN ONE (1) INCH OF RAINFALL: TO ENSURE THE (CONTINUED) FREE FLOW OF STORMWATER, INSPECT THE SYSTEM AND REMOVE ACCUMULATED TRASH AND DEBRIS FROM THE UPGRADIENT SEDIMENT/TRASH REMOVAL DEVICES, AND THE INFLOW AND OUTFLOW POINTS OF THE DOWN-GRADIENT UNDERGROUND RETENTION SYSTEM.
 - EVERY 6 MONTHS: PERFORM A COMPREHENSIVE INSPECTION OF THE UNDERGROUND RETENTION SYSTEM FOR ACCUMULATED TRASH, DEBRIS AND ORGANIC MATTER, AND REMOVE/DISPOSE OF THESE CONTAMINATES TO ENSURE UNIMPEDED STORMWATER FLOW, AS APPROPRIATE, CLEAN THE SURFACE OF THE SUB-GRADE SANDS BY RAKING, AND CHECK FOR ACCUMULATIONS IN THE VARIOUS UNDERGROUND AREAS. IF THE SEDIMENT/CONTAMINATE ACCUMULATION IS GREATER THAN TWO (2) INCHES, A VACUUM TRUCK AND/OR SIMILAR EQUIPMENT MAY BE NECESSARY FOR REMOVAL OPERATIONS. REMOVED CONTAMINATES SHALL BE TAKEN TO AN APPROVED OFFSITE LANDFILL.
 - ANNUALLY, DURING SEPTEMBER-NOVEMBER: MONITORING OF THE DRAWDOWN TIME FOR THE STORMWATER THROUGH THE SUB-GRADE SANDS SHALL BE DONE TO ENSURE RECOVERY WITHIN 72 HOURS AFTER THE LAST RAINFALL EVENT. MONITORING AND OBSERVATION OF THE DRAWDOWN TIMES CAN BE DONE VISUALLY THROUGH THE INSPECTION PORTS OR OBSERVATION WELL AFTER A STORM EVENT THE DRAWDOWN OF THE WATER QUALITY TREATMENT VOLUME (RTV) MUST RECOVER WITHIN 72 HOURS AFTER THE STORM EVENT. IF APPROPRIATE, POSTCONSTRUCTION HYDRAULIC CONDUCTIVITY TESTING OF THE NON-COMPACTED SOIL FLOOR AND THEIR SUBSEQUENT (CERTIFIED) REPORTS SHALL BE PERFORMED BY THE APPROPRIATE FLORIDA LICENSED PROFESSIONAL ANY POSTCONSTRUCTION SOIL TESTING REPORTS SHALL BE SUBMITTED TO THE COUNTY UPON REQUEST.
 - DRAWDOWN TIMES THAT EXCEED 72 HOURS ARE INDICATIVE OF SUB-GRADE CLOGGING, AND WILL LIKELY REQUIRE THE REMOVAL OF CONTAMINATES AND RAKING OF THE SUB-GRADE SOILS. THE ACTUAL DEPTH OF REMOVAL CAN BE DETERMINED VISUALLY BY LOOKING AT THE DISCOLORATION OF THE ENTRAPPED FINE SILTS, HYDROCARBONS (GREASES, OILS), AND ORGANIC MATTER. IF REQUIRED, REPLACEMENT SUB-GRADE SOILS MUST MEET THE DESIGN SPECIFICATIONS UNDER THE ORIGINAL PERMIT AUTHORIZATION.
 - IN ADDITION TO THE SUB-GRADE SOILS, OTHER ELEMENTS OF THE STORMWATER MANAGEMENT SYSTEM SUCH AS PIPES, INLETS, GEOTEXTILE FABRIC, GRAVEL, SEDIMENT/TRASH REMOVAL DEVICES, ETC., ARE TO BE INSPECTED AND REPAIRED/REPLACED IF NEEDED.
- RECOMMENDED MAINTENANCE ACTIVITIES**
 - MONITOR FACILITY FOR SEDIMENT ACCUMULATION IN THE PIPE (WHEN USED) AND STORAGE VOLUME RECOVERY (I.E., DRAWDOWN CAPACITY). OBSERVATION WELLS AND INSPECTION PORTS SHOULD BE CHECKED FOLLOWING 3 DAYS MINIMUM DRY WEATHER. FAILURE TO PERCOLATE STORED RUNOFF TO THE DESIGN TREATMENT VOLUME LEVEL WITHIN 72 HOURS INDICATES BINDING OF SOIL WITHIN THE SYSTEM WITH FINE SOLIDS. REDUCTIONS IN STORAGE VOLUME DUE TO SEDIMENT IN THE DISTRIBUTION PIPE, ALSO REDUCES EFFICIENCY. MINOR MAINTENANCE MEASURES CAN RESTORE INFILTRATION RATES TO ACCEPTABLE LEVELS. SHORT TERM MAJOR MAINTENANCE (TOTAL REHABILITATION) IS REQUIRED TO REMOVE ACCUMULATED SEDIMENT IN MOST CASES OR TO RESTORE RECOVERY RATE WHEN MINOR MEASURES ARE NO LONGER EFFECTIVE OR CANNOT BE PERFORMED BECAUSE OF DESIGN CONFIGURATION.
 - INSPECT APPURTENANCES SUCH AS SEDIMENTATION AND OIL AND GRIT SEPARATION TRAPS OR CATCH BASINS AS WELL AS DIVERSION DEVICES AND OVERFLOW WEIRS WHEN USED. DIVERSION FACILITIES AND OVERFLOW WEIRS SHOULD BE FREE OF DEBRIS AND READY FOR SERVICE. SEDIMENTATION AND OIL/GRIT SEPARATORS SHOULD BE SCHEDULED FOR CLEANING WHEN SEDIMENT DEPTH APPROACHES CLEAN-OUT LEVEL. CLEAN-OUT LEVELS SHOULD BE ESTABLISHED NOT LESS THAN 1 FOOT BELOW CONTROL ELEVATION OF THE CHAMBER.
 - AS-NEEDED TO PROLONG SERVICE:
 - REMOVE SEDIMENT FROM SEDIMENT OR OIL/GREASE TRAPS, CATCH BASIN INLETS, MANHOLES, AND OTHER APPURTENANT STRUCTURES AND DISPOSE OF PROPERLY.
 - REMOVE DEBRIS FROM THE OUTFLOW OR "SMART BOX" (DIVERSION DEVICE IN THE CASE OF OFF-LINE FACILITIES).
 - AS-NEEDED TO MAINTAIN 72-HOUR INFILTRATION RATE:
 - PERIODIC CLEAN-OUT/REHABILITATION OF THE SYSTEM TO REMOVE ANY ACCUMULATED TRASH, SEDIMENT AND OTHER INFLOW DEBRIS AND REMEDIATE ANY CLOGGING OF PERFORATED PIPES, AGGREGATE AND GEOTEXTILE FABRICS.
 - TOTAL REPLACEMENT OF THE SYSTEM. IN SOME CASES, THE SYSTEM MAY NOT BE ABLE TO BE REHABILITATED SUFFICIENTLY TO RESTORE THE DESIGN STORAGE AND INFILTRATION RATE. IN THESE CASES, COMPLETE REPLACEMENT OF THE SYSTEM MAY BE NECESSARY. DURING REPLACEMENT, ANY REMOVED SEDIMENT, CONTAMINATED SOIL, COARSE AGGREGATE, AND FILTER CLOTH SHALL BE DISPOSED OF PROPERLY.

6.6 PERVIOUS PAVEMENT SYSTEMS

6.6.7. CONSTRUCTION REQUIREMENTS

THE FOLLOWING CONSTRUCTION PROCEDURES ARE REQUIRED TO ASSURE THAT THE PERVIOUS PAVEMENT IS PROPERLY PREPARED AND INSTALLED SUCH THAT THE DESIRED INFILTRATION RATE IS OBTAINED:

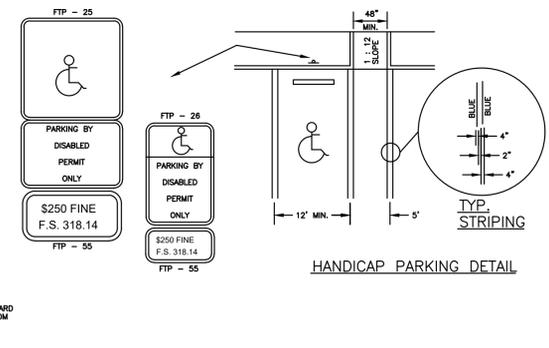
- THE LOCATION AND DIMENSIONS OF THE PERVIOUS PAVEMENT SHALL BE VERIFIED ON-SITE PRIOR TO ITS CONSTRUCTION. ALL DESIGN REQUIREMENTS INCLUDING PERVIOUS PAVEMENT DIMENSIONS AND DISTANCES TO FOUNDATIONS, SEPTIC SYSTEMS, AND WELLS NEED TO BE VERIFIED.
- THE LOCATION OF PERVIOUS PAVEMENT AREAS SHALL BE CLEARLY MARKED AT THE SITE TO PREVENT UNNECESSARY VEHICULAR TRAFFIC ACROSS THE AREA CAUSING SOIL COMPACTION.
- EXCAVATION SHALL BE DONE BY LIGHTWEIGHT EQUIPMENT TO MINIMIZE SOIL COMPACTION. TRACKED, CLEATED EQUIPMENT DOES LESS SOIL COMPACTION THAN EQUIPMENT WITH TIRES.
- ONCE THE SUBGRADE ELEVATION HAS BEEN REACHED, THE AREA SHALL BE INSPECTED FOR MATERIALS THAT COULD PUNCTURE OR TEAR THE FILTER FABRIC, SUCH AS TREE ROOTS, AND ASSURE THEY ARE NOT PRESENT.
- THE IN-SITU (OR IMPORTED) SUBGRADE SOIL (BELOW THE PERVIOUS PAVEMENT SYSTEM) SHALL BE COMPACTED TO A MAXIMUM OF 92% - 95% MODIFIED PROCTOR DENSITY (ASTM D-1557) TO A MINIMUM DEPTH OF 24 INCHES.
- THE SPECIFIED FILTER FABRIC SHALL BE INSTALLED IN ACCORDANCE WITH THE DESIGN SPECIFICATIONS.
- THE AGGREGATE MATERIAL SHALL BE INSPECTED PRIOR TO PLACEMENT TO ENSURE IT MEETS SIZE SPECIFICATIONS AND IS WASHED TO MINIMIZE FINES AND DEBRIS. IT SHOULD BE SPREAD UNIFORMLY TO THE APPROPRIATE THICKNESS.
- THE PERVIOUS PAVEMENT MATERIAL SHALL BE INSTALLED BY A CONTRACTOR TRAINED AND CERTIFIED BY THE PRODUCT MANUFACTURER TO INSTALL THE PROPOSED PERVIOUS PAVEMENT SYSTEM ACCORDING TO APPROVED DESIGN SPECIFICATIONS.
- STORMWATER SHALL NOT BE DIRECTED ONTO THE PERVIOUS PAVEMENT FROM ADJACENT CONTRIBUTING AREAS UNTIL AFTER THEY ARE STABILIZED TO PREVENT SEDIMENT FROM ENTERING AND CLOGGING THE PERVIOUS PAVEMENT. ALL EROSION AND SEDIMENT CONTROLS SHALL REMAIN IN PLACE UNTIL THE CONTRIBUTING DRAINAGE AREA IS FULLY STABILIZED.
- BEFORE THE PERVIOUS PAVEMENT IS PLACED INTO OPERATION, SIGNS SHALL BE INSTALLED AT ALL ENTRANCES ADVISING USERS THAT THEY ARE ENTERING A PERVIOUS PAVEMENT PARKING LOT AND THAT VEHICLES WITH HEAVY WHEEL LOHP OR MUDDY TIRES SHOULD NOT ENTER.
- AN APPLICANT MAY PROPOSE ALTERNATIVE CONSTRUCTION PROCEDURES TO ASSURE THAT THE DESIGN INFILTRATION RATE OF THE PERVIOUS PAVEMENT IS MET.

6.6.1. INSPECTION, OPERATION AND MAINTENANCE

MAINTENANCE ISSUES ASSOCIATED WITH PERVIOUS PAVEMENTS ARE RELATED TO CLOGGING OF THE POROUS SURFACES WHICH REDUCES OR PREVENTS INFILTRATION THEREBY SLOWING RECOVERY OF THE STORMWATER TREATMENT VOLUME AND OFTEN RESULTING IN STANDING WATER AND THE DESIGNED NUISANCE FLOODING.

TO DETERMINE IF THE PERVIOUS PAVEMENT IS PROPERLY FUNCTIONING OR WHETHER IT NEEDS MAINTENANCE REQUIRES THAT EITHER AN INSPECTION BE WITHIN 72 HOURS OF A STORM AND THAT THE ERK DEVICES BE USED TO TEST THE INFILTRATION RATE AS SPECIFIED BELOW.

- INSPECTION ITEMS:**
 - INSPECT PERVIOUS PAVEMENT FOR STORAGE VOLUME RECOVERY WITHIN THE PERMITTED TIME, GENERALLY LESS THAN 72 HOURS. DETERMINE IF NUISANCE FLOODING IS OCCURRING IN THOSE AREAS OF THE PARKING LOT THAT WERE DESIGNED TO FLOOD IF THE PERVIOUS PAVEMENT WAS FAILING. NUISANCE FLOODING INDICATES THAT THE REQUIRED TREATMENT VOLUME IS NOT INFILTRATING BECAUSE OF A REDUCTION OF THE INFILTRATION RATE AND A NEED TO RESTORE SYSTEM PERMEABILITY.
 - USE THE ERK INFILTROMETERS AT LEAST ONCE EVERY TWO (2) YEARS TO TEST IF THE VERTICAL HYDRAULIC CONDUCTIVITY IS LESS THAN 2.0 INCHES PER HOUR OR IS LESS THAN THE PERMITTED DESIGN PERCOLATION RATE IN ANY OF THE REQUIRED ERK INFILTROMETERS. IF ANY OF THE ERK INFILTROMETERS HAVE RATES LESS THAN THE PERMITTED RATE, MAINTENANCE ACTIVITIES SHALL BE UNDERTAKEN TO RESTORE THE PERMEABILITY OF THE PERVIOUS PAVEMENT. THE RESULTS OF THE ERK INFILTROMETER TESTING SHALL BE SUBMITTED TO THE COUNTY IF REQUESTED.
 - INSPECT ALL EDGE CONSTRAINTS AND OVERFLOW AREAS TO DETERMINE IF ANY EROSION IS OCCURRING AND REPAIR AS NEEDED.
- MAINTENANCE ACTIVITIES AS-NEEDED TO PROLONG SERVICE:**
 - VACUUM SWEEPINGS WILL BE CONDUCTED ANNUALLY AND WHENEVER THE VERTICAL HYDRAULIC CONDUCTIVITY IS LESS THAN 2.0 INCHES PER HOUR OR IS LESS THAN THE PERMITTED DESIGN PERCOLATION RATE IN ANY OF THE REQUIRED ERK INFILTROMETERS. VACUUM SWEEPING WILL BE DONE ON AN AS-NEEDED BASIS ON PERVIOUS PAVEMENTS LOCATED IN AREAS THAT ARE SUBJECT TO WIND TRANSPORTED SOILS (NEAR SAND DUNES OR OTHER COASTAL AREAS) OR OTHER CONDITIONS WHERE EXCESSIVE SOIL OR OTHER DEBRIS DEPOSITION IS EXPECTED TO OCCUR FROM ADJACENT LANDSCAPING MULCH AND LEAF LITTER, FROM AREAS WITH HIGH LEAF FALL, FUGITIVE SANDS AND LIME ROCK FINES FROM ADJACENT CONSTRUCTION SITES, ETC.).
 - A REMEDIATION PLAN SHALL BE SUBMITTED TO THE COUNTY SHOULD VACUUM SWEEPING FAIL TO IMPROVE THE VERTICAL HYDRAULIC CONDUCTIVITY TO A RATE GREATER THAN 2.0 INCHES PER HOUR, OR EQUAL TO OR GREATER THAN THE PERMITTED DESIGN PERCOLATION RATE, OR RESOLVE THE NUISANCE PONDING. THE REMEDIATION PLAN SHALL BE PREPARED AND SUBMITTED TO THE COUNTY FOR REVIEW AND APPROVAL.
 - REPAIR EROSION NEAR EDGE CONSTRAINTS OR OVERFLOWS AND ASSURE THAT THE CONTRIBUTING DRAINAGE AREA IS STABILIZED AND NOT A SOURCE OF SEDIMENTS



GENERAL CONSTRUCTION NOTES		GRADING AND DRAINAGE NOTES		CLEARING AND GRUBBING NOTES		LANDSCAPE NOTES																																																																																																														
1. ALL RIGHT-OF-WAY INSTALLATIONS WILL BE IN ACCORDANCE WITH PRACTICES REFERENCED IN THE STATE OF FLORIDA UTILITIES ACCOMMODATIONS MANUAL.	2. ALL DESIGN AND CONSTRUCTION MUST CONFORM TO THE MINIMUM STANDARDS SET DOWN IN PINELLAS COUNTY LAND DEVELOPMENT, ZONING AND/OR RELATED ORDINANCES, AND MINIMUM TESTING FREQUENCY REQUIREMENTS.	3. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY THE LOCATIONS, ELEVATIONS, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES AFFECTING THIS WORK PRIOR TO CONSTRUCTION.	4. THE CONTRACTOR SHALL CHECK THE PLANS FOR CONFLICTS AND DISCREPANCIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES BEFORE PERFORMING ANY WORK IN THE AFFECTED AREA.	5. THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION IN AREAS OF BURIED UTILITIES, AND SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES, IN ORDER TO PERMIT MARKING THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, IN ADVANCE OF CONSTRUCTION, BY CALLING "SUNSHINE" AT 1-800-432-4770. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITIES NOT INCLUDED IN THE "SUNSHINE" PROGRAM.	6. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES, ABOVE OR BELOW GROUND, THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.	7. ALL UNDERGROUND UTILITIES MUST BE IN PLACE AND TESTED OR INSPECTED PRIOR TO BASE AND SURFACE CONSTRUCTION.	8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENT AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTIONS ACCORDING TO AGENCY INSTRUCTIONS.	9. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE OWNER'S ENGINEER, SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS WHICH ARE FROM THIS SITE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. ALL SHOP DRAWINGS ARE TO BE REVIEWED AND APPROVED BY THE CONTRACTOR PRIOR TO SUBMITTAL TO THE OWNER'S ENGINEER.	10. AT LEAST THREE (3) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND APPROPRIATE AGENCIES, AND SUPPLY THEM WITH ALL REQUIRED SHOP DRAWINGS, THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE, AND OTHER INFORMATION AS REQUIRED. ANY WORK PERFORMED PRIOR TO NOTIFYING THE ENGINEER, OR WITHOUT AGENCY INSPECTOR PRESENT, MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.	11. BACKFILL MATERIAL SHALL BE SOLIDLY TAMPED AROUND PIPES IN 6" LAYERS UP TO A LEVEL OF AT LEAST ONE FOOT ABOVE THE TOP OF THE PIPE. IN AREAS TO BE PAVED, BACKFILL SHALL BE COMPACTED TO 100% MAXIMUM DENSITY AS DETERMINED BY AASHTO T-99.	12. SITE WORK CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH OF AT LEAST 3,000 P.S.I. IN 28 DAYS, UNLESS OTHERWISE NOTED.	13. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. ADDITIONAL COSTS ARE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION IS TO BE ALLOWED.	14. ALL DISTURBED AREAS WHICH ARE NOT TO BE SODDED, ARE TO BE SEEDED AND MULCHED TO DOT STANDARDS, AND MAINTAINED UNTIL A SATISFACTORY STAND OF GRASS, ACCEPTABLE TO THE REGULATORY AGENCY AND ENGINEER OF RECORD, HAVE BEEN OBTAINED. ANY WASHOUTS, REGRADING, RESEEDING, AND GRASSING WORK, AND OTHER EROSION WORK REQUIRED, WILL BE PERFORMED BY THE CONTRACTOR, UNTIL THE SYSTEM IS ACCEPTED FOR MAINTENANCE, BY THE REGULATORY AGENCY AND ENGINEER OF RECORD.	15. THE SOILS ENGINEER IS TO SUPPLY THE ENGINEER WITH A PHOTOCOPY OF ALL COMPACTION TESTS, AND ASPHALT RESULTS. THE SOILS ENGINEER IS TO CERTIFY TO THE ENGINEER OF RECORD, IN WRITING, THAT ALL TESTING REQUIREMENTS, REQUIRED BY THE LOCAL REGULATORY AGENCY, AND THE FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT), FOR THE IMPROVEMENTS, AS REQUIRED BY THE ENGINEERING CONSTRUCTION DRAWINGS, HAVE BEEN SATISFIED.	16. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLANS AND PERMITS AT THE CONSTRUCTION SITE.	17. THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS AND METHODS FOR CONSTRUCTION SITE SAFETY.	18. ALL SODDING, SEEDING AND MULCHING SHALL INCLUDE WATERING AND FERTILIZATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THESE AREAS UNTIL THE PROJECT IS COMPLETED AND ACCEPTED BY THE OWNER.	19. SAFE PEDESTRIAN TRAFFIC IS TO BE MAINTAINED AT ALL TIMES.	20. SIGNS AND BARRICADES SHALL BE IN ACCORDANCE WITH THE US DEPARTMENT OF TRANSPORTATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE FLORIDA DEPARTMENT OF TRANSPORTATION'S "DESIGN STANDARDS" INDEXES 600 THROUGH 670 (LATEST EDITIONS).	21. ANY SIDEWALK WHICH BECOMES UNDERMINED MUST BE REMOVED AND REPLACED. SIDEWALKS ARE TO BE RECONSTRUCTED WITHIN THREE (3) FEET OF THE EXISTING SIDEWALK. WHEN EXISTING SIDEWALK IS REMOVED, IT IS TO BE REMOVED TO THE NEAREST JOINT.	22. PLACE EXPANSION JOINTS WHERE 4" AND 6" CONCRETE ABUT.	23. PLACE EXPANSION JOINT BETWEEN BACK-OF-CURB AND CONCRETE DRIVEWAY.	24. SAW CUT EXISTING EDGE-OF-PAVEMENT PRIOR TO REMOVAL OF CURB AND PLACEMENT OF ASPHALT.	25. COMPACTION FOR PIPE BACKFILL SHALL COMPLY WITH AASHTO T-99 (100 %).	26. DISTURBED AREA WITHIN THE RIGHT-OF-WAY WILL BE COMPACTED TO 100% OF MAXIMUM DENSITY AND SODDED.	27. DO NOT DISTURB EXISTING UNDERDRAIN OR STORM SYSTEMS. IF FILTRATION BED IS DISTURBED, CONTACT THE AREA INSPECTOR WITH THE CITY HIGHWAY DEPARTMENT FOR ASSISTANCE.	28. COORDINATE THE CUTTING OF DRIVEWAYS WITH OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT END OF WORK DAY.	29. CONCRETE DRIVEWAYS PERMITTED TO BE CUT ARE TO BE RESTORED WITH 6" OF 3000 PSI CONCRETE WITH 6" X 6" 10 GAUGE WIRE WELDED FABRIC. PLACE 1/2" EXPANSION JOINT BETWEEN BACK OF CURB AND NEW DRIVE. ANY PORTION OF DRIVEWAY AT OR NEAR CUTS THAT BECOMES UNDERMINED WILL BE REMOVED PRIOR TO CONCRETE BEING PLACED. EXISTING CRACKS IN DRIVEWAYS ARE TO BE DOCUMENTED AS PRE-EXISTING OR THAT SECTION REPLACED AT THE CITY HIGHWAY DEPARTMENT'S OPTION. AREA BENEATH PATCH TO BE MECHANICALLY TAMPED PRIOR TO PLACING CONCRETE. MINIMUM REPAIR WIDTH TO BE 5" WITH NO SECTION LEFT SMALLER THAN 5".	30. ASPHALT DRIVES PERMITTED TO BE CUT ARE TO BE RESTORED UTILIZING THE SAME MATERIAL AS EXISTING BASE WITH MINIMUM 6" THICKNESS, COMPACTED AND PRIMED. ASPHALT IS TO MATCH EXISTING THICKNESS WITH A MINIMUM OF 1 1/2" THICKNESS. ASPHALT IS TO BE PC-3 OR ALTERNATE APPROVED BY THE COUNTY HIGHWAY DEPARTMENT PRIOR TO USE. ASPHALT IS TO BE COMPACTED TO ACHIEVE DENSITY REQUIREMENTS FOR PC-3. RECEIPTS AND DELIVERY TICKETS SHOULD REFLECT SUPPLIER AND HIS CERTIFICATION AS TO TYPE OF ASPHALT SUPPLIED.	31. TYPE OF SOD USED TO RESTORE OWNER-MAINTAINED AREA IN RIGHT OF WAY SHALL BE COORDINATED WITH OWNER.	32. NO STOCKPILING OF MATERIAL IN ROADWAY OR ON SIDEWALK. ALL DIRT AND DEBRIS WILL BE REMOVED FROM JOB SITE DAILY. ROHP AND SIDEWALK TO BE SWEPT DAILY AS PART OF DAILY CLEAN-UP.	33. ANY PORTION OF THE ROADWAY THAT SUSTAINS EXCESSIVE CONSTRUCTION RELATED DAMAGE, IN THE OPINION OF THE COUNTY HIGHWAY DEPARTMENT, SHALL BE REPAIRED AT CONTRACTOR EXPENSE IN A MANNER SPECIFIED BY THE COUNTY HIGHWAY DEPARTMENT.	34. THE PERMITTEE'S ATTENTION IS DIRECTED TO THE PROVISIONS OF THE TRENCH SAFETY ACT (FLORIDA STATUTES, SECTION 353.60 ET. SEQ.) AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS (29 C.F.R. SECTION 1926.650, SUBPART P) WHICH SHALL APPLY TO CONSTRUCTION, OPERATION AND MAINTENANCE PURSUANT TO THIS PERMIT.	35. NOTIFY PROPERTY OWNERS REGARDING SPRINKLER SYSTEM, PLANTS AND MAIL BOXES THAT WILL BE DISTURBED DURING CONSTRUCTION PRIOR TO STARTING WORK.	36. PRIOR TO COMMENCEMENT OF WORK AND/OR PRIOR TO START OF RESTORATION, COORDINATE THROUGH A "WALK-THROUGH" WITH THE COUNTY HIGHWAY DEPARTMENT REPRESENTATIVE TO ENSURE MUTUAL AGREEMENT REGARDING SUCH MATTERS AS EXTENT OF ROADWAY TO BE OVERLAID AFTER PATCHING, THE EXTENT OF DRIVEWAY REPLACEMENT - ESPECIALLY CONCRETE, ETC.	37. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND EASILY ACCESSIBLE PAVED OR UNPAVED PATHWAY FOR PEDESTRIAN TRAFFIC THROUGH THE WORK ZONE FOR THE DURATION OF THE CONSTRUCTION PROJECT. IF THE PATHWAY LIES ALONG A DESIGNATED SCHOOL-WALKING ROUTE THEN THE CONTRACTOR MUST PROVIDE ADEQUATE SUPERVISION AND/OR GUIDANCE TO THE SCHOOL AGED STUDENTS AS THEY TRAVERSE THRU THE WORK ZONE.	1. ALL DELETERIOUS SUBSTANCE MATERIAL, (I.E. MUCK, FEAT, BURIED DEBRIS), IS TO BE EXCAVATED IN ACCORDANCE WITH THESE PLANS OR AS DIRECTED BY THE OWNER'S ENGINEER, OR OWNER'S SOIL TESTING COMPANY. DELETERIOUS MATERIAL IS TO BE STOCKPILED OR REMOVED FROM THE SITE AS DIRECTED BY THE OWNER. EXCAVATED AREAS ARE TO BE BACKFILLED WITH APPROVED MATERIALS AND COMPACTED AS SHOWN ON THESE PLANS.	2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXCAVATIONS AGAINST COLLAPSE AND WILL PROVIDE BRACING, SHEETING, OR SHORING, AS NECESSARY. TRENCHES SHALL BE KEPT DRY WHILE PIPE AND APPURTENANCES ARE BEING PLACED. DEWATERING SHALL BE USED AS REQUIRED.	3. ALL STORM SEWER PIPE SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76) UNLESS OTHERWISE NOTED ON PLANS.	4. PVC STORM PIPE, 12" AND SMALLER SHALL CONFORM TO AWWA C-900, CLASS 150 STANDARDS, UNLESS OTHERWISE NOTED.	5. ALL DRAINAGE STRUCTURE GRATES AND COVERS WITHIN TRAFFIC AREAS SHALL BE TRAFFIC RATED FOR H-20 LOADINGS.	6. THE CONTRACTOR IS TO SOD THE RETENTION/DETENTION POND AS INDICATED ON PLANS WITHIN ONE WEEK FOLLOWING CONSTRUCTION OF THE POND.	7. MATERIALS AND CONSTRUCTION METHODS FOR STREETS AND STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY.	VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAINS, AND RECLAIMED WATER PIPELINES		(A) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY- OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.	(B) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.	(C) AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.	SANITARY SEWER NOTES		1. ALL SANITARY SEWER MAINS & LATERALS SHALL HAVE A MINIMUM OF 36 INCHES OF COVER.	2. ALL SANITARY SEWER MAINS & SERVICE LATERALS SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE PIPE, SDR 35 OR AS OTHERWISE INDICATED ON THE CONSTRUCTION DRAWINGS.	3. ALL SANITARY SEWER WORK SHALL CONFORM WITH LOCAL REGULATORY STANDARDS AND SPECIFICATIONS.	4. PRIOR TO COMMENCING WORK WHICH REQUIRES CONNECTING NEW WORK TO EXISTING LINES OR APURTENANCES, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING CONNECTION POINT AND NOTIFY OWNER'S ENGINEER OF ANY CONFLICTS OR DISCREPANCIES.	5. PVC PIPE AND FITTINGS SHALL CONFORM TO ASTM SPECIFICATIONS DESIGNATION D-3034-77C, MA SDR 35. INSTALLATION OF SDR 35 PIPE SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS OF ASTM SPECIFICATION SECTION D2321. ALL SANITARY SEWER PIPELINES SHALL BE SOLID GREEN IN COLOR.	6. ALL PVC FORCE MAINS SHALL BE CLASS 200, SDR 21, COLOR GREEN, WITH A GREEN MAGNETIC TAPE A MINIMUM OF 2" WIDE, PLACED 1 FOOT BELOW THE PROPOSED GRADE. THE PRINTING ON THE MAGNETIC TAPE SHOULD READ "FORCEMAIN".	7. ALL DUCTILE IRON PIPE SHALL BE CLASS 52 IN ACCORDANCE WITH ANSI A 21.50 (AWWA C 150) AND ANSI A21.51 (AWWA C 151). DUCTILE IRON PIPE SHALL RECEIVE INTERIOR AND EXTERIOR BITUMINOUS COATING IN ACCORDANCE WITH ANSI A 21.6, A 21.8 OR A 21.51 AND SHALL BE MORTAR LINED, STANDARD THICKNESS, AND BITUMINOUS SEALED IN ACCORDANCE WITH ANSI A (AWWA C 104-71).	8. ALL SANITARY SEWER GRAVITY MAINS OR SANITARY SEWER FORCEMAINS THAT REQUIRE D.I.P. ARE TO BE POLYLINED OR EPOXY LINED.	9. ALL SANITARY SEWER COVERS SHALL BE TRAFFIC RATED FOR H-20 LOADING.	PINELLAS COUNTY RIGHT OF WAY NOTES		1. ALL PROPOSED WORK MUST COMPLY WITH F.D.O.T. INDEX NO. 700	2. ALL R.O.W. INSTALLATIONS WILL BE IN ACCORDANCE WITH PRACTICES REFERENCED IN THE STATE OF FLORIDA UTILITIES ACCOMMODATIONS MANUAL.	3. ALL DESIGN AND CONSTRUCTION MUST CONFORM TO THE MINIMUM STANDARDS SET DOWN IN PINELLAS COUNTY LAND DEVELOPMENT, ZONING AND/OR RELATED ORDINANCES, AND MINIMUM TESTING FREQUENCY REQUIREMENTS.	4. SIGNS AND BARRICADES SHALL BE IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION'S "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AND THE FLORIDA DEPARTMENT OF TRANSPORTATION'S "STANDARD PLANS" INDEXES 102-600 THROUGH 102-670 (LATEST EDITIONS).	5. INSTALLATIONS INVOLVING CONCRETE AND ASPHALT DRIVEWAY, IN GOOD CONDITION, MUST BE ACCOMPLISHED BY JACK AND BORE OR PUSHING. NO JETTING IS ALLOWED.	6. COMPACTION FOR PIPE BACKFILL SHALL COMPLY WITH AASHTO T-99(100%).	7. DISTURBED AREA WITHIN THE R.O.W. WILL BE COMPACTED TO 100% OF MAXIMUM DENSITY AND SODDED.	8. ANY PORTION OF THE ROADWAY THAT SUSTAINS EXCESSIVE CONSTRUCTION RELATED DAMAGE, IN THE OPINION OF PINELLAS COUNTY HIGHWAY DEPARTMENT, SHALL BE REPAIRED AT CONTRACTOR EXPENSE IN A MANNER SPECIFIED BY PINELLAS COUNTY HIGHWAY DEPARTMENT.	9. SAFE PEDESTRIAN TRAFFIC IS TO BE MAINTAINED AT ALL TIMES.	10. ANY SIDEWALK WHICH BECOMES UNDERMINED MUST BE REMOVED AND REPLACED. SIDEWALKS ARE TO BE RECONSTRUCTED WITHIN THREE (3) DAYS AFTER REMOVAL. WHEN EXISTING SIDEWALK IS REMOVED, IT IS TO BE REMOVED AT THE NEAREST JOINT.	11. NO STOCKPILING OF MATERIAL IN ROADWAY OR ON SIDEWALK. ALL DIRT OR DEBRIS WILL BE REMOVED FROM THE JOB SITE DAILY. ROHP AND SIDEWALKS ARE TO BE SWEPT DAILY AS PART OF DAILY CLEAN-UP.	12. PLACE EXPANSION JOINT BETWEEN BACK-OF-CURB AND CONCRETE SIDEWALK AND BETWEEN CONCRETE DRIVEWAY AND CONCRETE SIDEWALK.	13. PLACE EXPANSION JOINTS WHERE 4" AND 6" CONCRETE ABUT.	14. PRIOR TO COMMENCEMENT OF WORK AND/OR PRIOR TO START OF RESTORATION, COORDINATE THROUGH A "WALK-THROUGH" WITH PINELLAS COUNTY HIGHWAY DEPARTMENT REPRESENTATIVE TO ENSURE MUTUAL AGREEMENT REGARDING SUCH MATTERS AS EXTENT OF ROADWAY TO BE OVERLAID AFTER PATCHING, THE EXTENT OF DRIVEWAY REPLACEMENT - ESPECIALLY CONCRETE, ETC.	15. HANDICAP RAMPS SHALL BE INSTALLED ACCORDING TO FDOT IND #304	16. REMOVE & REPLACE ANY EXISTING SIDEWALK WITHIN PINELLAS COUNTY R.O.W. THAT HAS BEEN DAMAGED DUE TO DEMOLITION AND PORTIONS NOT MEETING A D.A. REQUIREMENTS.	17. A MINIMUM REQUIRED SIDEWALK SHOULDER CLEAR ZONE OF 2' FROM THE EDGE OF THE SIDEWALK WITH A MAXIMUM SLOPE OF 3/4" PER LINEAR FOOT. NO PERMANENT OBSTACLES ARE ALLOWED IN THIS AREA.	18. LANE CLOSURES MUST BE SCHEDULED 48 HOURS IN ADVANCE WITH PINELLAS COUNTY PUBLIC WORKS AND SHALL NOT OCCUR DURING PEAK HOURS PERIODS OF 7AM TO 9AM AND 4PM TO 6PM.	19. ALL RIGHT-OF-WAY INSTALLATIONS WILL BE IN ACCORDANCE WITH PRACTICES REFERENCED IN THE STATE OF FLORIDA UTILITIES ACCOMMODATIONS MANUAL.	20. PROVIDE A MINIMUM OF 3" COVER OVER UTILITIES AT ALL DITCH CROSSINGS.	21. THE PERMITTEE'S ATTENTION IS DIRECTED TO THE PROVISIONS OF THE TRENCH SAFETY ACT (FLORIDA STATUTES, SECTION 353.60 ET. SEQ.) AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS (29 C.F.R. SECTION 1926.650, SUBPART P) WHICH SHALL APPLY TO CONSTRUCTION, OPERATION AND MAINTENANCE PURSUANT TO THIS PERMIT.	22. UPON COMPLETION OF THE PROJECT, THE ENGINEER OF RECORD SHALL COMPLETE THE ORIGINAL CERTIFICATION OF PROJECT COMPLETION FORM AND SUBMIT 2 ORIGINAL COPIES OF RECORD DRAWINGS, ELECTRONIC FILES (BOTH PDF AND DWG) AND INDEPENDENT TESTING REPORTS FOR WORK PERFORMED WITHIN PINELLAS COUNTY RIGHTS-OF-WAY.	23. A CERTIFICATE OF OCCUPANCY INSPECTION CANNOT BE REQUESTED OR SCHEDULED UNTIL ALL PROJECT COMPLETION DOCUMENTS HAVE BEEN SUBMITTED TO PINELLAS COUNTY ENGINEERING DEPARTMENT. RECORD DRAWING DOCUMENTS MUST BE SUBMITTED AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO THE REQUESTING OR SCHEDULING OF A CO. CO INSPECTIONS MUST BE SCHEDULED TWO (2) DAYS IN ADVANCE AND ARE ONLY AVAILABLE ON MONDAYS, WEDNESDAYS OR FRIDAYS.	S.W.F.W.M.D. / EROSION CONTROL NOTES		1. DURING CONSTRUCTION SEDIMENT IS TO REMAIN ON SITE. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF EROSION AND SEDIMENT CONTROL DEVICES PRIOR TO INITIATING AND DURING ALL PHASES OF LAND CLEARING AND CONSTRUCTION TO PREVENT SOIL EROSION AND SILTATION.	2. ROUGH EXCAVATE RETENTION AREAS.	3. DIRECT ALL SURFACE DRAINAGE TOWARD RETENTION AREA DURING CONSTRUCTION.	4. AFTER PAVING, GRADE RETENTION AREAS TO CONTOUR, SHAPE AS SHOWN AND SOD.	5. ALL DISTURBED CONDITIONS SHALL BE RESTORED TO NATURAL CONDITIONS OR BETTER.	6. ALL SIDE SLOPES OF RETENTION OR SWALE AREAS SHALL BE STABILIZED BY VEGETATION OR OTHER MATERIALS TO MINIMIZE EROSION AND PROTECT THE STORMWATER BASIN.	NOTE: PLAN CONFLICTS, SHOWN OR UNSHOWN, WITH OTHER EXISTING SITE IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ADJUSTMENTS AND PROTECT OR REINSTALL ALL DISTURBED EXISTING UTILITIES, PHONE LINES, POWER LINES, POWER SUPPORT CABLES, SPRINKLER LINES AND CONTROLS, MECHANICAL PIPELINES OR UNDERGROUND POWER CABLES AND RETURN EXISTING CONCRETE WALKS, DUMPSTER PHP, FENCE, HANDRAIL, VALVES, HYDRANTS, GUY WIRES, ELECTRIC BOXES AND PIPELINES WHICH SHALL BE REPAIRED OR REINSTALLED AS INCIDENTAL TO THE COST OF WORK SHOWN HEREUNDER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESOLVE ANY CONFLICTS PRIOR TO AWARD OF THE CONTRACT.		NOTE: REQUIRED EROSION CONTROL MEASURES MUST REMAIN INTACT THROUGHOUT CONSTRUCTION. FAILURE TO INSTALL OR MAINTAIN THESE BARRICADES WILL RESULT IN ENFORCEMENT ACTION WHICH MAY INCLUDE CITATIONS, AS PROVIDED BY CHAPTERS 400-4 & 400-4 F.A.C. INITIATION OF CIVIL PENALTY PROCEDURES PURSUANT TO SECTION 373.129, F.A.C. CAN RESULT IN A PENALTY NOT TO EXCEED \$10,000 PER OFFENSE WITH EACH DATE DURING WHICH SUCH VIOLATION OCCURS CONSTITUTING A OFFENSE.		MAINTENANCE AND OPERATIONS INSPECTIONS FOR STORMWATER DISCHARGE FACILITY		1. ALL SODDED AREAS SHALL BE MOWED AND MAINTAINED PROPERLY.	2. UNDER NO CIRCUMSTANCES SHALL THE RETENTION AREA BE FILLED WITH ANY OTHER SUBSTANCE THAN STORMWATER.	3. SWALE AREAS SHALL BE KEPT CLEAN AND FREE OF ANY OBSTRUCTIONS.	4. IF DAMAGE TO THE SYSTEM DOES OCCUR, THE SYSTEM SHALL BE RECONSTRUCTED IN ACCORDANCE WITH THE APPROVED PLAN.	OPERATION & MAINTENANCE OF THE STORMWATER SYSTEM		1. THE OWNER SHALL PERIODICALLY MONITOR THE STORMWATER SYSTEM (PIPE CONVEYANCE SYSTEM AND RETENTION POND) FOR SILT AND SEDIMENTATION BUILD UP. THE PIPE CONVEYANCE SYSTEM SHALL BE FLUSHED, AS DEEMED NECESSARY NO LESS THAN TWICE A YEAR. ALL MATERIAL SHALL BE COLLECTED DOWNSTREAM AND REMOVED. THE RETENTION POND SHALL BE KEPT MOWED AND THE BOTTOM FREE OF DEBRIS. IF WATER STANDS IN THE POND MORE THAN 48 HOURS THE OWNER SHALL RAKE AND/OR SCARIFY THE POND BOTTOM, AS DEEMED NECESSARY AND NO LESS THAN TWICE A YEAR TO RESTORE THE PERCOLATION CHARACTERISTICS OF THE POND. THE PONDING WILL BE RESPONSIBLE TO MAKE SURE THAT TO THE BEST OF HIS ABILITY NOTHING ENTERS THE SYSTEM BESIDES STORMWATER THAT COULD DEGRADATE THE FUNCTIONING CAPABILITIES OF THE SYSTEM, I.E. GASOLINE, OIL, GREASE, CHEMICALS, ETC.	2. THE POND UNDERDRAIN SYSTEM SHALL BE INSPECTED ANNUALLY AND RETROFITTED AND FLUSHED SEMI-ANNUALLY. CLOGGED OR SPENT FILTER MATERIAL SHALL BE DISPOSED OF IN ALL MANNERS AS WITH THE HANDLING OF HAZARDOUS WASTE. THE SPENT FILTER MATERIAL SHALL BE DISPOSED OF IN A PERMITTED FACILITY.	AMERICANS WITH DISABILITIES ACT (ADA) NOTES:		ADA ACCESSIBLE PATHS SHALL MEET THE FOLLOWING:	1. ADA PATH SHALL HAVE A MAXIMUM 1:48 (2.03%) CROSS SLOPE.	2. IF THE ADA PATH DOES NOT TERMINATE AT A DRIVE AISLE AND HAS A LONGITUDINAL SLOPE THAT IS GREATER THAN 1:20 (5.00%) AND LESS THAN 1:12 (8.33%) ADA RAILINGS WILL BE REQUIRED.	3. IN THE EVENT THE ADA PATH IS CONSTRUCTED WITH A LONGITUDINAL SLOPE THAT IS GREATER THAN 1:12 (8.33%) OR THE CROSS SLOPE IS GREATER THAN 1:48 (2.03%) WILL REQUIRE THAT PORTION OF SIDEWALK BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE DEVELOPER/OWNER.	NOTICE TO ALL CONTRACTORS AND DEVELOPERS		THE DOMESTIC WATER SYSTEM AND THE STORM DRAIN FILTER SYSTEM FOR THIS PROJECT MUST BE INSPECTED BY OUR OFFICE IN ORDER THAT THEY BE CERTIFIED TO THE APPROPRIATE GOVERNMENTAL AGENCY. IT IS, THEREFORE, IMPERATIVE THAT OUR OFFICE BE NOTIFIED AT LEAST 24 HOURS PRIOR TO BACKFILLING OVER THESE FACILITIES. FAILURE TO DO SO WILL RESULT IN THESE FACILITIES HAVING TO BE UNCOVERED AND INSPECTED BEFORE A CERTIFICATE OF OCCUPANCY IS ISSUED. YOUR CERTIFICATE OF OCCUPANCY WILL BE WITHHELD UNTIL THE MATTER IS RESOLVED.	DEUEL & ASSOCIATES (727) 822-4151

DESIGN:	XC	 565 SOUTH HERCULES AVENUE CLEARWATER, FL 33764 PHONE 727.822.4151 WWW.DEUELENGINEERING.COM	<i>2754 SUMMERDALE WAREHOUSE SPECIFICATIONS</i>	I, CHRISTOPHER A. CHIN, HEREBY CERTIFY AS A LICENSED PROFESSIONAL ENGINEER, REGISTERED IN ACCORDANCE WITH FLORIDA STATUTE 471 (481) THAT THE ABOVE PROJECT'S SITE AND/OR CONSTRUCTION PLANS, TO THE BEST OF MY KNOWLEDGE, INFORMATION AND BELIEF, WILL MEET APPLICABLE DESIGN CRITERIA PRESCRIBED BY CITY MUNICIPAL ORDINANCE, AND PREFERABLY TEN FEET ABOVE THE STANDARDS. I UNDERSTAND THAT IT IS MY RESPONSIBILITY AS THE PROJECT'S PROFESSIONAL ENGINEER TO PERFORM A QUALITY ASSURANCE REVIEW OF THESE SUBMITTED PLANS.	WORK ORDER NO.	SE22.199	
DATE:	NOVEMBER 8, 2022				SCALE:	N.T.S.	
REVISION	BY	CHECKED:	CAC	PINELLAS COUNTY	FLORIDA	SHEET NO.	8 OF 8