

**NOTE: PRIOR TO BEGINNING ANY SITE WORK & ORDERING OF MATERIALS, CONTRACTOR SHALL FIELD VERIFY ALL UTILITY STAGES OF CONSTRUCTION: & DRAINAGE CONNECTIONS TO EXISTING SYSTEMS BY POT HOLING AND SHALL NOTIFY ENGINEER OF NEEDED CHANGES: FAILURE TO DO SO WILL RESULT IN THE CONTRACTOR BEING RESPONSIBLE FOR ALL REVISION COSTS AND DELAYS.**

**EROSION CONTROL & MAINTENANCE PLAN NOTES:**

1. RETAIN FLOATABLE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES. CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF SITE.
2. PERMANENTLY STABILIZE ALL SURFACE AREA WITHIN AND ADJACENT TO THIS SITE THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION FOR THE PROPOSED FACILITY. STABILIZATION IS OBTAINED WHEN THE DISTURBED SURFACE IS COVERED WITH STRUCTURES, PAVING AND OR PERENNIAL VEGETATION HAVING A UNIFORM COVERAGE DENSITY OF AT LEAST 70%. STABILIZATION OF ALL DISTURBED AREA IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES.
3. CONTRACTORS SHALL INSPECT POLLUTION CONTROL MEASURES AT LEAST ONCE EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1/2 INCH OR GREATER. DAMAGED MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR ADDITIONAL MEASURES WITHIN SEVEN DAYS. REPEATED FAILURE OF A CONTROL MEASURE REQUIRES INSTALLATION OF A MORE SUITABLE DEVICE TO PREVENT DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
4. INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE CITY OR STATE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO BEGINNING ANY WORK ON PROJECT SITE.
5. CARE SHALL BE TAKEN TO MINIMIZE THE ENCROACHMENT OF SEDIMENT INTO ALL STORM DRAIN APPURTENANCES, PUBLIC STREETS, AND ONTO PRIVATE PROPERTY UNTIL IMPERVIOUS MATERIAL (ROADPAVING AREA SURFACE) IS APPLIED OR UNTIL PROPOSED LANDSCAPE HAS BEEN ESTABLISHED.
6. REFER TO S1.1 FOR SILT FENCE CONSTRUCTION.
7. ALL GRASS SLOPES WHICH EXCEED 2:1 (H:V) SHALL UTILIZE CONTECH CONSTRUCTION PRODUCTS PERMANENT TURF REINFORCEMENT MAT 450 OR APPROVED EQUAL. MATS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS AND STANDARDS. CONTRACTOR SHALL COORDINATE INSTALLATION INSPECTION WITH MANUFACTURER.

**CONSTRUCTION EGRESS NOTES:**

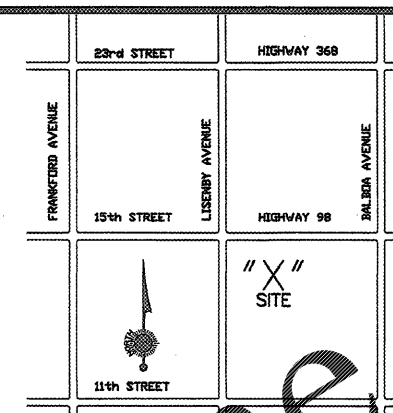
1. CONSTRUCTION EGRESS SHALL BE 20" MINIMUM WIDTH AND 30" MINIMUM LENGTH AND 6" MIN THICKNESS OF STONE (1.5-3.5") COARSE AGGREGATE WITH GEOTEXILE UNDERLAYER. REFER TO THE CITY OR STATE FOR ANY ADDITIONAL REQUIREMENTS.
2. THE EGRESS SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 1.5-3.5 INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT OF ANY STRUCTURE USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES OR SITE ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
3. WHEELS MUST BE CLEANED TO REMOVE MUD PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN LOCATED PER THE CITY OR STATE REQUIREMENTS.

**SITE EXCAVATION REQUIREMENTS:**

1. A GEOTECHNICAL ANALYSIS HAS BEEN PERFORMED ON THIS SITE. REFER TO PROJECT MANUAL.
2. FOLLOW GEOTECHNICAL ANALYSIS RECOMMENDATION FOR SITE EXCAVATION.
3. REFER TO STRUCTURAL DRAWINGS FOR BUILDING EXCAVATION REQUIREMENTS.

**RIP-RAP NOTE:**

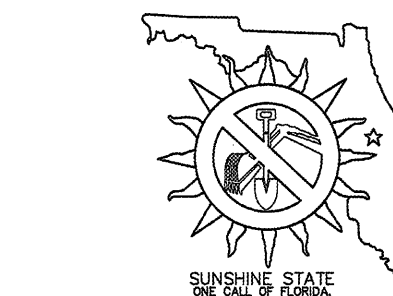
HAND PLACE RIP-RAP IN ALL PLACES AS INDICATED ON THE PLAN. THE STONE FOR RIP-RAP SHALL CONSIST OF FIELD STONE OR ROUGH UNIFORM QUARRY STONE AS NEARLY AS UNIFORM, IN SECTION AS PRACTICAL. THE STONES SHALL BE DENSE, RESISTANT TO THE ACTION OF AIR AND WATER, AND SUITABLE IN ALL ASPECTS FOR THE PURPOSE INTENDED UNLESS OTHERWISE SPECIFIED. ALL STONES USED AS RIP-RAP SHALL WEIGH BETWEEN 30-150 POUNDS EACH, AND AT LEAST 80 PERCENT OF THE STONES SHALL WEIGH MORE THAN 100 POUNDS EACH. STONES SHALL BE A MINIMUM OF 6" IN DIAMETER AND PLACED A MINIMUM OF 1" BELOW FINISH GRADE.



VICINITY MAP

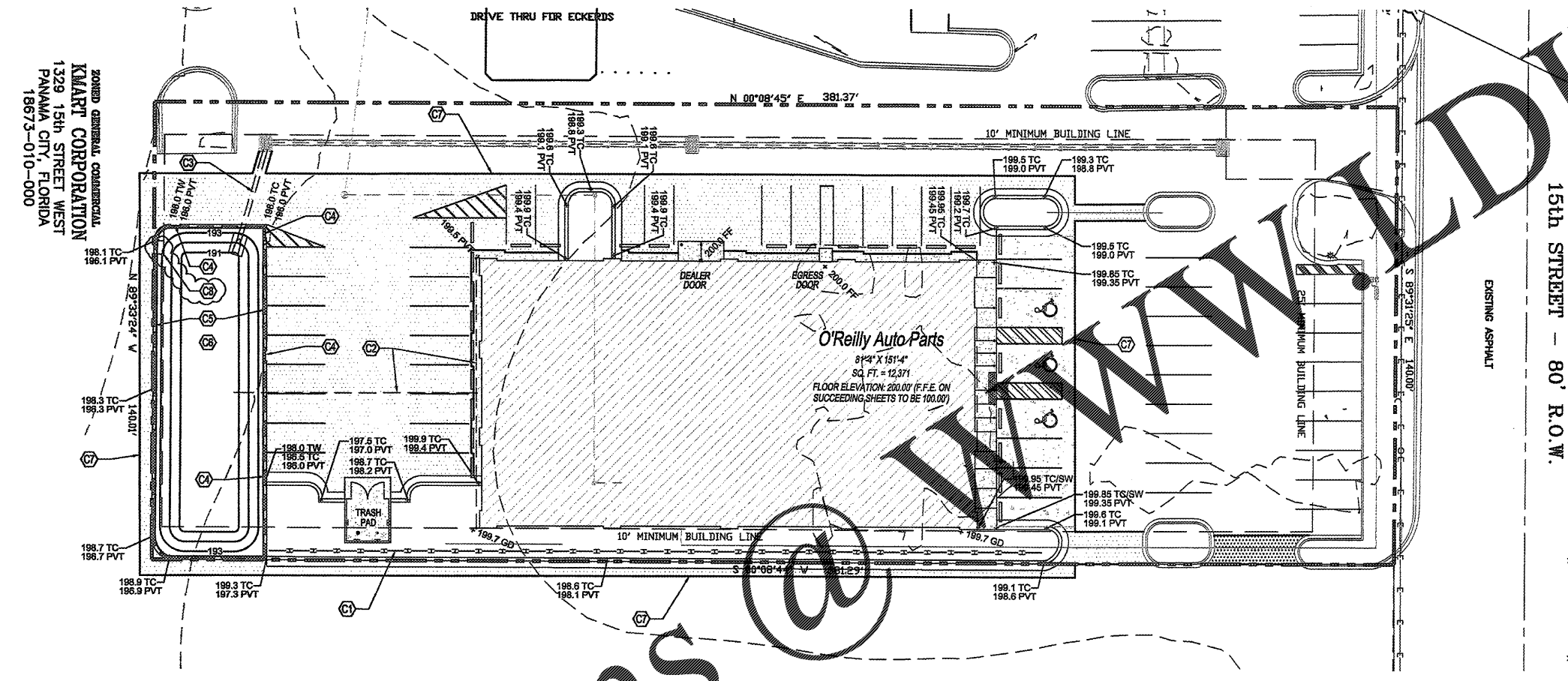
**KEY NOTES:**

1. LIMITS OF TEMPORARY EROSION CONTROL FENCE. REFER TO DETAIL S1.1.
2. INSTALL 180 LBS 8" DOWNSPOUT COLLECTOR PIPE AT MINIMUM SLOPE OF 1% REFER TO DETAIL S1.2.
3. INSTALL APPROX. 35 LF OF 15" PIPE. REMOVE EXISTING PIPE AND INSTALL NEW PIPE. INSTALL MES AND 6X6 ROCK RIP RAP PAD AT OUTLET. FL. OUT = 191.0'. REFER TO PIPE NOTES.
4. INSTALL 3" WIDE BY 6" TALL CUT IN WALL TO ALLOW WATER TO DRAIN INTO BASIN. FLOWLINE SHALL MATCH PAVEMENT ELEVATION.
5. INSTALL APPROXIMATELY 270 LF OF CAST IN PLACE CONCRETE RETAINING WALL. WALL HEIGHT VARIES. TOP = VARIES. BOT = 198.5'. REFER TO DETAILS S1.2 AND S1.3.
6. INSTALL DETENTION BASIN. REFER TO DETAIL S1.2.
7. MATCH GRADES AT EXISTING PAVEMENT. ADJUST PROPOSED GRADES AND CURB HEIGHTS AS NECESSARY TO PROVIDE POSITIVE DRAINAGE. ENSURE MAXIMUM SLOPES ARE NOT EXCEEDED IN HANDICAP AREAS.
8. INSTALL 3" WIDE BY 6" TALL CUT IN WALL TO SERVE AS AN EMERGENCY OVERFLOW. FLOWLINE SHALL MATCH PAVEMENT ELEVATION. BOLT A 1" HIGH SKIMMER OVER OUTLET INSIDE THE BASIN. REFER TO FOOT STANDARD INDEX NO. 240.

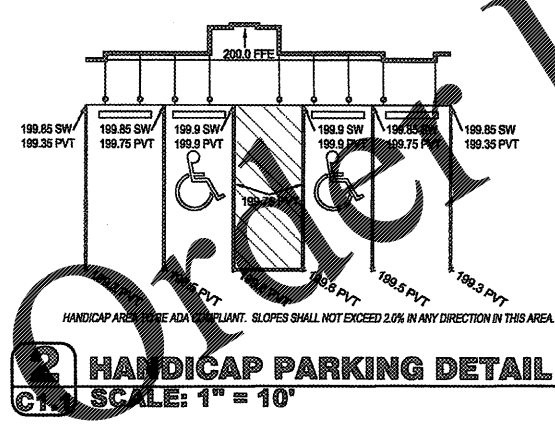
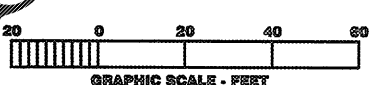


**SPECIAL NOTE:** CONTRACTOR SHALL FIELD VERIFY PROPOSED GRADES MATCH EXISTING PAVEMENT AT DRIVEWAY ENTRANCES. CONTRACTOR SHALL NOTIFY ENGINEER IF DISCREPANCY OCCURS.

**SPECIAL NOTE:** FIELD VERIFY SANITARY SEWER CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION. REFER TO SITE UTILITIES PLAN.



**1 SITE GRADING PLAN**  
C1.1 SCALE: 1" = 20'-0"



**2 HANDICAP PARKING DETAIL**  
C1.1 SCALE: 1" = 10'

**FLOOD ZONE:**

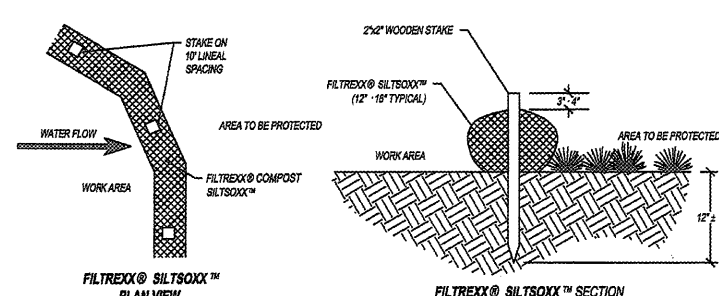
ACCORDING TO FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAPS (FIRM), COMMUNITY PANEL NO. 1200500341H, EFFECTIVE DATE: JUNE 2, 2008. ENTIRE SUBJECT PROPERTY LIES WITHIN ZONE X, AREAS OF MINIMAL FLOOD HAZARD.

**PIPES NOTES:**

1. PIPE MATERIALS SHALL BE IN ACCORDANCE WITH AND AS APPROVED BY THE CITY OR APPLICABLE AUTHORITY. REINFORCED CONCRETE PIPE (RCP) AND HIGH DENSITY POLYETHYLENE (HDPE) MAY BE USED AS ALLOWED BY LOCAL GUIDELINES.
2. ALL PIPE IS TO BE INSTALLED PER THE MANUFACTURER'S REQUIREMENTS AND MEET COVER REQUIREMENTS PER THE MANUFACTURER.

**GENERAL NOTES:**

- REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
- SITE CONDITIONS BASED UPON ORIGINAL PLANS AND SURVEY FROM 2003. NO CURRENT SURVEY HAS BEEN PROVIDED TO US. FIELD VERIFY EXISTING CONDITIONS BY DETAILED SITE INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING CONSTRUCTION.
- FIELD VERIFY SANITARY SEWER SERVICE CONNECTION INVERT PRIOR TO ESTABLISHING FINAL FINISH FLOOR ELEVATION.
- COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.

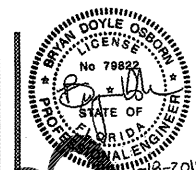


- NOTE:**
1. ALL MATERIAL TO MEET FILTREX® SPECIFICATIONS OR APPROVED EQUAL.
  2. SILTSOXX™ COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.
  3. SILTSOXX™ DEPICTED IS FOR MINIMUM SLOPES. GREATER SLOPES MAY REQUIRE LARGER SOCKS PER THE MANUFACTURER SPECIFICATIONS.
  4. COMPOST MATERIAL TO BE DISPersed ON SITE, AS DETERMINED BY ENGINEER.

**3 FILTREX SILTSOXX™**  
C1.1 SCALE: NOT TO SCALE

SYMBOLS LEGEND		REFER TO SURVEY (SV1) FOR EXISTING CONDITION SYMBOLS LEGEND AND SITE CONTROL.	
---	EXISTING GRADE LINES	NEW SPOT ELEVATIONS LIST: GRADE SIDEWALK, TOP OF WALL, TOP OF CURB, TOP OF PAVEMENT, NEW GRADE CONCRETE, EXISTING TOP OF CURB, EXISTING GRADE, EXISTING PAVEMENT, EXISTING SIDEWALK, FLOW LINE, TOP OF BERM.	ABBREVIATION: NONE, SW, TW, TC, PVT, GD, CONC, ETC, EGO, EPVT, ESW, FL, TOP
---	PROPOSED NEW GRADE LINES		
[Hatched Box]	NEW BUILDING CONSTRUCTION	BENCHMARK: NO CURRENT SURVEY OR BENCHMARK HAS BEEN PROVIDED TO US. USE ORIGINAL SURVEY DATED MARCH 3, 2003.	[North Arrow]
[Solid Box]	NEW CONCRETE PAVING BLOCK		
[Dashed Line]	TEMPORARY EROSION CONTROL FENCE		
[Arrow]	SURFACE FLOW ARROW		

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PANAMA CITY, FL #1  
SITE GRADING PLAN

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COMM #	4275
DATE:	01-04-19
REVISION DATE:	1-18-19

C1.1