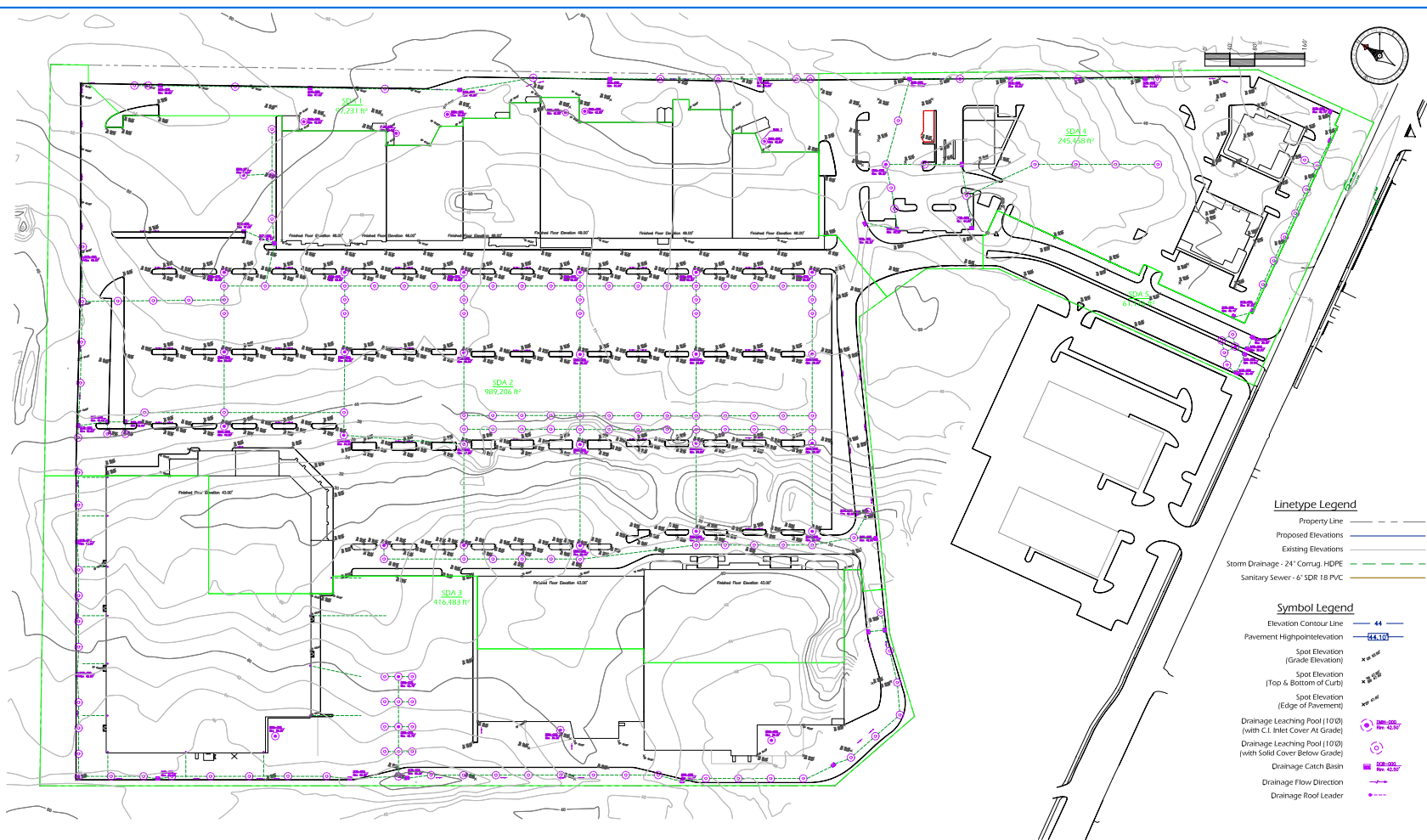


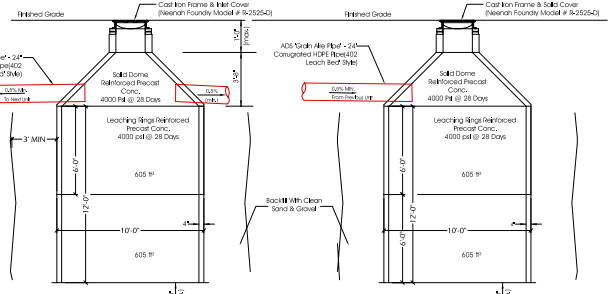
Appendix Q



GENERAL INFORMATION			
Location of Site: Town of Riverhead, Suffolk County			
Address: County Road 58 and Kroecker Avenue in the Town of Riverhead			
Suffolk County Tax Map Number:	600-10-01-03 & 600-11-01-06		
Zoning District:	DRS (Development Rural Center)		
Area Data:	600-10-01-03 Z-03	1,698,523.666 ^{sq} ft	(38.99 Acres)
	600-11-01-06 Z-03	67,500.00 ^{sq} ft	(1.55 Acres)
	600-11-01-06 Z-03	43,826.80 ^{sq} ft	(1.01 Acres)
	600-11-01-06 Z-03	1,600,850.468 ^{sq} ft	(36.55 Acres)
Survey information taken from survey done by Joseph Ingrosso, Land Surveyor (dated 12-18-2006)			

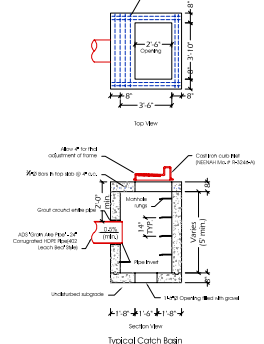
Basis of Design of Storm Drainage System			
Based on SCDPS Code			
SDA-1			
Total Area:	97,231 ^{sq} ft		
Roof Surface Area:	840 ^{sq} ft	2" Storm x 1.0 Runoff Coefficient	1.12 ^{sq} ft
Paved Surface Area:	71,844 ^{sq} ft	2" Storm x 0.5 Runoff Coefficient	10,992 ^{sq} ft
Concrete Surface Area:	0 ^{sq} ft	2" Storm x 1.0 Runoff Coefficient	0 ^{sq} ft
Grass / Landscape Area:	24,725 ^{sq} ft	2" Storm x 0.3 Runoff Coefficient	1,281 ^{sq} ft
SDA1 Required Storm Water Volumes:			12,386 ^{cu} ft
Using ASD Storm Water Flow = 24" Congruent HPR Reel22 Leach Roof SDA @ 0.34 ft/s, 10' to connect to 120" HPR concrete leach catch basins @ 450 ft/s each. (2) two traps per unit outside of building 1,210 ft per unit.			
120" ft of pipe	12,386 ^{cu} ft	0.34 ft/s	3,591 ^{cu} ft
120" ft of pipe	12,386 ^{cu} ft	0.34 ft/s	3,591 ^{cu} ft
SDA1 Required Storm Water Volumes:			12,386 ^{cu} ft
SDA-2			
Total Area:	989,228 ^{sq} ft		
Roof Surface Area:	286,768 ^{sq} ft	2" Storm x 1.0 Runoff Coefficient	48,751 ^{sq} ft
Paved Surface Area:	598,544 ^{sq} ft	2" Storm x 0.5 Runoff Coefficient	89,781 ^{sq} ft
Concrete Surface Area:	28,442 ^{sq} ft	2" Storm x 1.0 Runoff Coefficient	4,495 ^{sq} ft
Grass / Landscape Area:	77,032 ^{sq} ft	2" Storm x 0.3 Runoff Coefficient	3,930 ^{sq} ft
SDA2 Required Storm Water Volumes:			148,814 ^{cu} ft
Using ASD Storm Water Flow = 24" Congruent HPR Reel22 Leach Roof SDA @ 0.34 ft/s, 10' to connect to 120" HPR concrete leach catch basins @ 450 ft/s each. (2) two traps per unit outside of building 1,210 ft per unit.			
120" ft of pipe	148,814 ^{cu} ft	0.34 ft/s	44,644 ^{cu} ft
120" ft of pipe	148,814 ^{cu} ft	0.34 ft/s	44,644 ^{cu} ft
SDA2 Required Storm Water Volumes:			148,814 ^{cu} ft
SDA-3			
Total Area:	418,483 ^{sq} ft		
Roof Surface Area:	83,793 ^{sq} ft	2" Storm x 1.0 Runoff Coefficient	14,246 ^{sq} ft
Paved Surface Area:	258,291 ^{sq} ft	2" Storm x 0.5 Runoff Coefficient	38,743 ^{sq} ft
Concrete Surface Area:	18,071 ^{sq} ft	2" Storm x 1.0 Runoff Coefficient	2,710 ^{sq} ft
Grass / Landscape Area:	68,328 ^{sq} ft	2" Storm x 0.3 Runoff Coefficient	3,219 ^{sq} ft
SDA3 Required Storm Water Volumes:			59,254 ^{cu} ft
Using ASD Storm Water Flow = 24" Congruent HPR Reel22 Leach Roof SDA @ 0.34 ft/s, 10' to connect to 120" HPR concrete leach catch basins @ 450 ft/s each. (2) two traps per unit outside of building 1,210 ft per unit.			
120" ft of pipe	59,254 ^{cu} ft	0.34 ft/s	17,426 ^{cu} ft
120" ft of pipe	59,254 ^{cu} ft	0.34 ft/s	17,426 ^{cu} ft
SDA3 Required Storm Water Volumes:			59,254 ^{cu} ft
SDA-4			
Total Area:	245,458 ^{sq} ft		
Roof Surface Area:	11,182 ^{sq} ft	2" Storm x 1.0 Runoff Coefficient	2,021 ^{sq} ft
Paved Surface Area:	193,241 ^{sq} ft	2" Storm x 0.5 Runoff Coefficient	28,986 ^{sq} ft
Concrete Surface Area:	0 ^{sq} ft	2" Storm x 1.0 Runoff Coefficient	0 ^{sq} ft
Grass / Landscape Area:	29,435 ^{sq} ft	2" Storm x 0.3 Runoff Coefficient	1,501 ^{sq} ft
SDA4 Required Storm Water Volumes:			34,542 ^{cu} ft
Using ASD Storm Water Flow = 24" Congruent HPR Reel22 Leach Roof SDA @ 0.34 ft/s, 10' to connect to 120" HPR concrete leach catch basins @ 450 ft/s each. (2) two traps per unit outside of building 1,210 ft per unit.			
120" ft of pipe	34,542 ^{cu} ft	0.34 ft/s	10,362 ^{cu} ft
120" ft of pipe	34,542 ^{cu} ft	0.34 ft/s	10,362 ^{cu} ft
SDA4 Required Storm Water Volumes:			34,542 ^{cu} ft
SDA-5			
Total Area:	61,178 ^{sq} ft		
Roof Surface Area:	0 ^{sq} ft	2" Storm x 1.0 Runoff Coefficient	0 ^{sq} ft
Paved Surface Area:	30,070 ^{sq} ft	2" Storm x 0.5 Runoff Coefficient	4,510 ^{sq} ft
Concrete Surface Area:	0 ^{sq} ft	2" Storm x 1.0 Runoff Coefficient	0 ^{sq} ft
Grass / Landscape Area:	30,208 ^{sq} ft	2" Storm x 0.3 Runoff Coefficient	1,511 ^{sq} ft
SDA5 Required Storm Water Volumes:			6,021 ^{cu} ft
Using ASD Storm Water Flow = 24" Congruent HPR Reel22 Leach Roof SDA @ 0.34 ft/s, 10' to connect to 120" HPR concrete leach catch basins @ 450 ft/s each. (2) two traps per unit outside of building 1,210 ft per unit.			
120" ft of pipe	6,021 ^{cu} ft	0.34 ft/s	1,776 ^{cu} ft
120" ft of pipe	6,021 ^{cu} ft	0.34 ft/s	1,776 ^{cu} ft
SDA5 Required Storm Water Volumes:			6,021 ^{cu} ft

- Linetype Legend**
- Property Line
 - Proposed Elevations
 - Existing Elevations
 - Storm Drainage - 24" Cong. HDPE
 - Sanitary Sewer - 6" SDR 18 PVC
- Symbol Legend**
- Elevation Contour Line
 - Pavement Highpoint/Elevation
 - Spot Elevation (Grade Elevation)
 - Spot Elevation (Top & Bottom of Curb)
 - Spot Elevation (Edge of Pavement)
 - Drainage Leaching Pool (10'0") (with C.I. Inlet Cover At Grade)
 - Drainage Leaching Pool (10'0") (with Solid Cover Below Ground)
 - Drainage Catch Basin
 - Drainage Flow Direction
 - Drainage Roof Leader

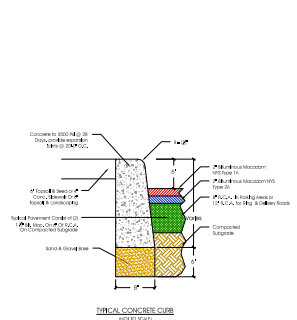


TYPICAL STORM WATER DISTRIBUTION UNIT
TOTAL STORAGE PER UNIT = 1,210^{cu} ft

TYPICAL STORM WATER LEACHING UNIT
TOTAL STORAGE PER UNIT = 1,210^{cu} ft

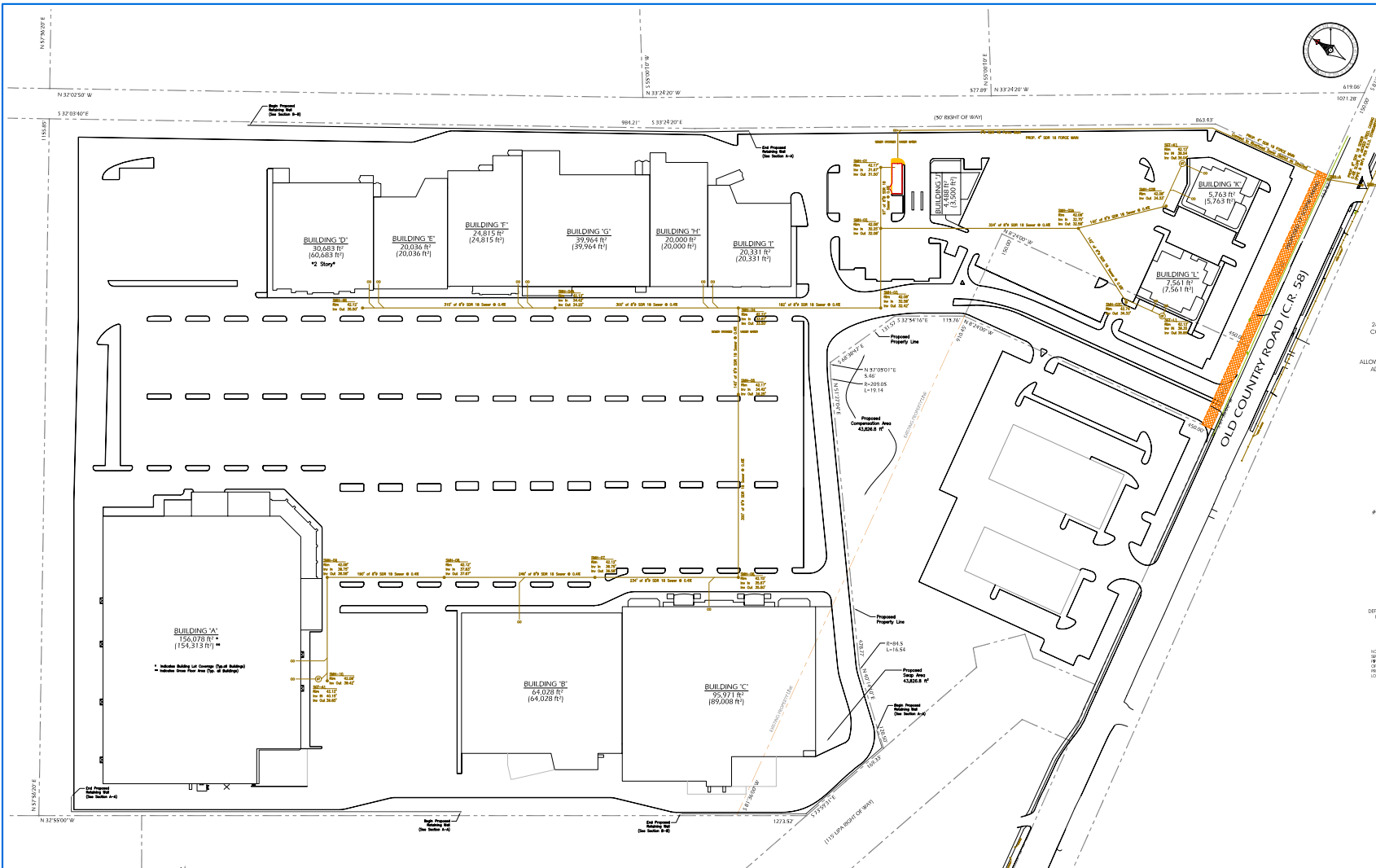


Typical Catch Basin



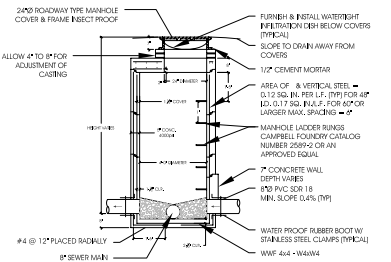
TYPICAL CONCRETE CURB

Date	Revision	Approval By:
		
The Shops at Riverhead County Road 58 Riverhead, N.Y. 11901		
E.S. KALOGERAS, P.E. Consulting Engineer		
UNION SQUARE, 727 UNION AVENUE, RIVERHEAD NEW YORK, 11901 TEL: (631) 722-4040 FAX: (631) 722-4004 E-mail: kalogeras@msn.com		
Drawn By:	Paul J. Sigismundi	Scale: 1" = 80'
Check By:	DRG 01-01	Sheet No:
Alternative Grading & Drainage Plan		U1A 1 of 1



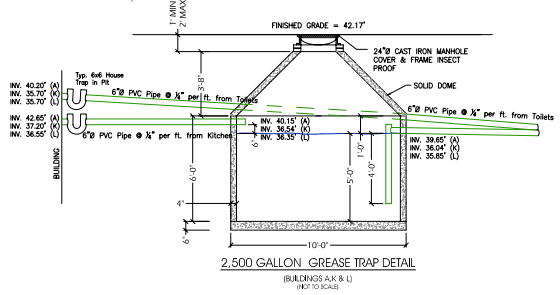
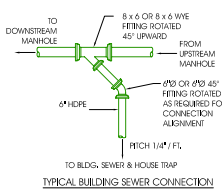
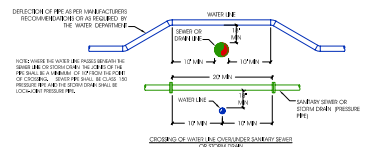
GENERAL INFORMATION			
Location of Site: Town of Riverhead, Suffolk County			
Access: County Road 58 and Kroeber Avenue in the Town of Riverhead			
Suffolk County Tax Map Numbers: 600-101-01-36, 600-111-01-06			
Zoning District: DRG (Development Retail Center)			
Area Data:	600-101-01-36, 63	= 1,698,573.668'	(38.99 Acres)
	600-111-01-01	= 61,500.00'	(1.55 Acres)
	600-111-01-05	= 43,826.80'	(1.01 Acres)
	600-111-01-06	= 1,609,980.44'	(41.55 Acres)
Survey information taken from survey done by Joseph Ingrosso, Land Surveyor (dated 12-18-2006)			

Basis of Design of Sanitary Sewer System			
Proposed Design Flow (Based On Building Units):			
Dry Score (Bldg. x A.U.)	306,417 B.U. x 0.02 gpd	=	15,193 gpd
Restaurant (Bldg. x K & L)	218 Seats x 30 gpd	=	9,540 gpd
Total Design Flow		=	24,733 gpd



NOTE: PRECAST CONCRETE MANHOLE SHALL MEET ALL REQUIREMENTS OF SCDS STANDARDS

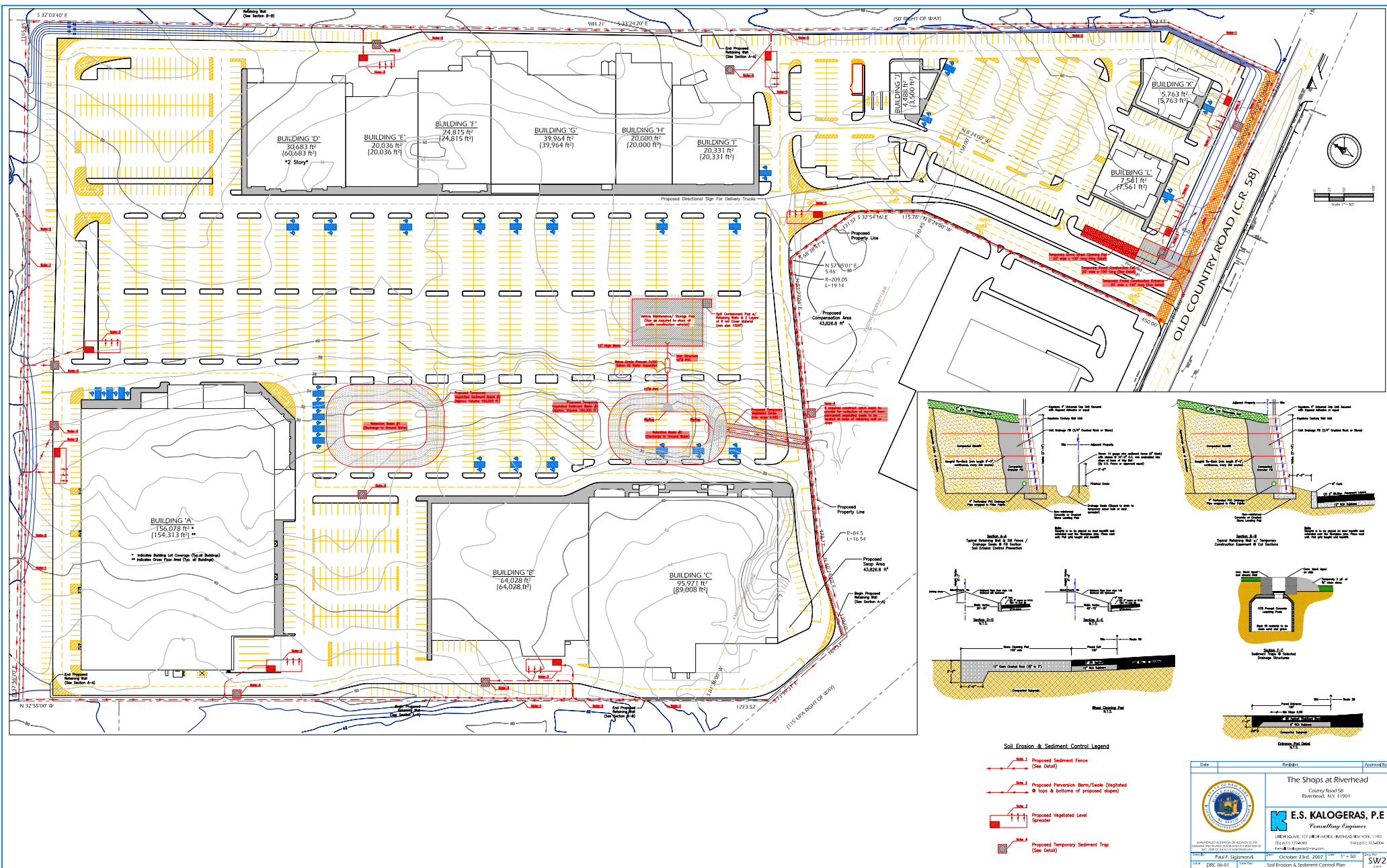
PRECAST MANHOLE DETAIL (SCDS) (NOT TO SCALE)

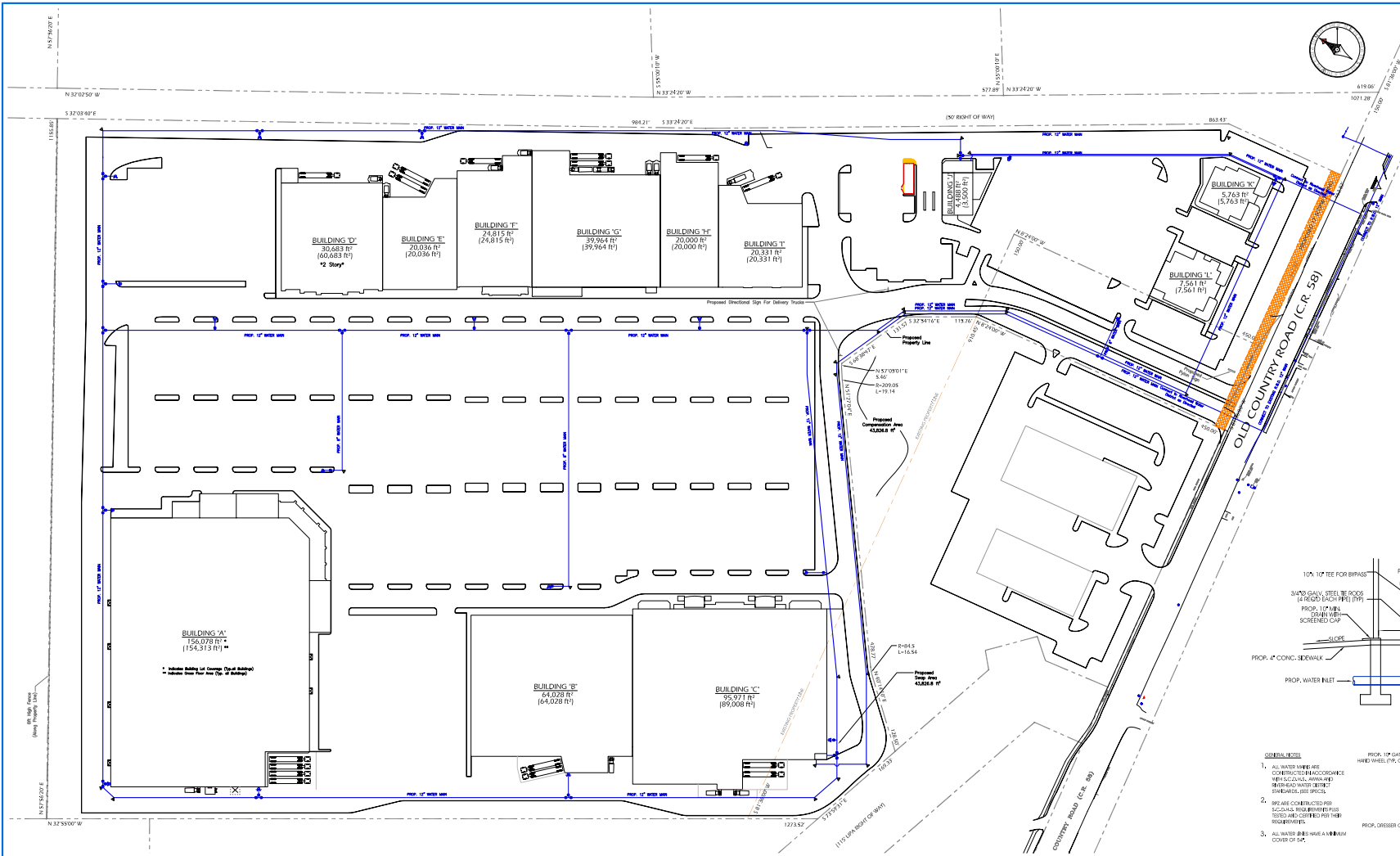


Date	Revision	Approval By:
The Shops at Riverhead County Road 58 Riverhead, N.Y. 11901		
E.S. KALOGERAS, P.E. Consulting Engineer		
UNION SQUARE, 727 UNION AVENUE, RIVERHEAD NEW YORK, 11901		
TEL: (631) 722-4040 FAX: (631) 722-4004		
E-mail: ekalogeras@msn.com		
Drawn By: Paul F. Sigismundi	Date: October 23rd, 2007	Scale: 1" = 80'
DRG 06-01	Sheet Name: Sanitary Sewer Plan	Drawn By: U2



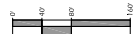
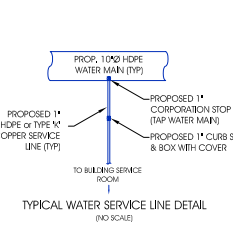
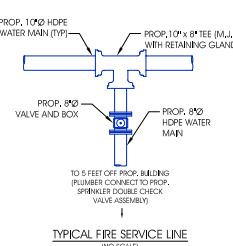
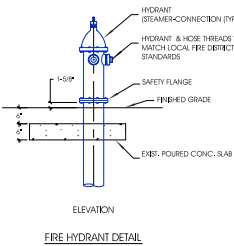
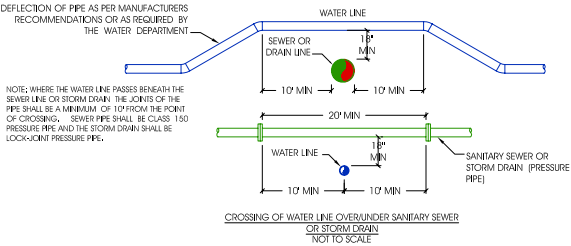
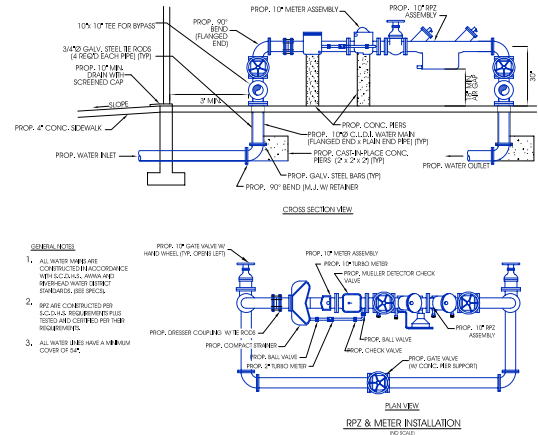
PLANNED EROSION AND SEDIMENTATION CONTROL PRACTICES		CONSTRUCTION SCHEDULE		VEGETATIVE PLAN	
A. Project Description The purpose of the project is to construct a retail destination shopping center with associated paved roadways and parking fields. Approximately 41 acres will be disturbed. The site is 4.15 acres located along Suffolk County Route 58 "C.R.58" (Old Country Road), approximately halfway between Kromer Avenue and Commerce Drive in the Town of Riverhead (see vicinity map).		Clearing, Grubbing and Land Grading (cont.) 1. Temporary diversions may be required to be constructed as final pavement grades are constructed. m. Temporary sediment and erosion control measures shall be maintained until the site has been properly permanently stabilized. Upon completion of the permanent stabilization, all temporary erosion and sediment control measures shall be removed and disturbed areas graded, were necessary, to blend with the surrounding area and new landscaping. 9. Sediment/Silt Fencing: a. The Contractor shall, prior to the start of any land disturbance such as clearing, grubbing, excavation, filling or grading, furnish and install temporary silt fencing at locations shown on the SW2PPP and for site development plans and at any other location required to contain sediment with the project site during construction. b. Sediment fencing shall be provided on the down gradient or low side of any temporary silt stockpile areas and at the base of any filled or cut areas to prevent sediment from being washed into drainage structures, or off site to adjacent properties. c. Fence posts shall be provided down slope of the filter fabric of the fence to provide for proper support of the fence. Posts are to be a minimum of 4" diameter pine with a minimum length of 4 feet. d. The bottom of the fence fabric shall be anchored in a minimum of 6" of soil at the base of the fence to prevent undercutting. e. Where necessary joints or spikes in the fabric can be provided were necessary by securing the fabric at a fence post, and then overlapping the second piece of fabric to the previous fence post. f. Filter fence fabric shall be of polypropylene, polypropylene or ethylene yarn with extra strength (with 50 lbs./inches) and with a flow rate of at least 0.3 gpm/ft/min. Fabric should contain ultraviolet ray inhibitors and stabilizers. 10. Temporary Sediment Traps/Scour Holes: a. The Contractor shall construct at locations shown on the SW2PPP temporary sediment traps and/or scour holes of the minimum size and lengths shown on the SW2PPP and/or as directed by the Engineer or as required to properly dispose of storm water runoff and fresh sediment. b. Prior to construction of the sediment traps or scour holes the Contractor shall remove all trees, brush, stumps and debris from the vicinity of the traps or holes. c. All fill required shall be free of roots, woody vegetation and organic matter. Fill shall be placed in 12" compacted lifts. d. Inlets shall be protected against erosion with properly sized riprap. e. Stabilize the embankments and all disturbed areas above the traps or holes as specified in the Vegetative Plan.		A. Seeded Preparation & Temporary Slope Stabilization: 1. All fill or cut slopes are to be immediately stabilized with either temporary seeding, hydraulic seeder (hydro-seeding). The method to be used will depend on location of the slopes, the time of the year and the construction sequencing of the installation of retaining wall concrete curbs, etc. 2. In general fill and cut slopes are to be constructed with slopes of 3:1 or flatter. 3. Slopes shall be rough graded to the specified slopes shown on the site development and or Soil Erosion and Sediment Control Plan (SW2). 4. Remove all rocks and debris as required to permit the slope to be fine graded to a contour to permit future mowing and proper and safe maintenance. 5. Apply lime and fertilizer to the soil at rates recommended by soil testing, spread evenly and incorporate to a depth of 2 to 4 inches with a farm disk or soil bler. 6. Loosen the substrate immediately prior to spreading topsoil by digging or scarifying to a depth of at least 2 inches. 7. Disk or till and rake to produce a uniform and well-pulverized surfaces. 8. Loosen surface prior to applying seed.	
2. Adjacent Properties Land use in the vicinity is a mixture of commercial, residential, industrial and land for power utilities. The land to the west has been developed for industrial purposes. Areas to the north and east are generally residential with a mix of recreation and commercial. Land to the south is a mixture of commercial and residential.		Temp. Level spreader areas will be constructed and contoured at the ends of the proposed swales and diversions in the vicinity of the proposed slopes at the perimeter of the property. 8. Next, temporary diversions shall be constructed above and at the bases of specific cuts and fills proposed along certain property lines, including connecting these diversions to the pre-constructed and stabilized level spreader areas. Included in this work will be installing all areas disturbed by the construction. Diversion swales will not be necessary around proposed structures as grades within the site will be generally flat.		B. Seeded Preparation & Permanent Slope Stabilization and Other Vegetated Areas: 1. Remove all rocks and debris as required to permit the slope to be fine graded to a contour to permit future mowing and proper and safe maintenance. 2. Apply lime and fertilizer to the soil at rates recommended by soil testing, spread evenly and incorporate to a depth of 2 to 4 inches with a farm disk or soil bler. 3. Loosen the substrate immediately prior to spreading topsoil by digging or scarifying to a depth of at least 2 inches. 4. Spread loam/topsoil either from the site to any or import topsoil as required to a depth of 4 inches. 5. Disk or till and rake to produce uniform and well-pulverized surfaces. 6. Loosen surface prior to applying seed.	
3. Soils The site is well suited to percolate storm water intensity of greater than 2 inches. The soil beneath the site is well graded sand and gravel, and will be an ideal receptor of storm water events. No groundwater problem is anticipated due to the depth to groundwater being greater than 20 feet.		11. Next, construction of building foundations and upper structures shall commence. 12. Next, commence final grading of selected portions of the site as utilities and drainage systems and building foundations are completed. 13. Complete installation of site improvements. 14. Complete final grading of parking areas. 15. Complete permanent restoration of landscaped areas of site. 16. Inspect erosion and sediment control practices weekly and after rainfall events. Make needed repairs immediately. If necessary or directed by the Engineer. 17. After completion of final restoration and the site is stabilized, remove all remaining temporary measures and install permanent vegetation on disturbed landscaped areas. The estimated time before final site stabilization is 16 months.		C. Seeding Methods: 1. Temporary Seeding: a. Broadcast seed of the types and rates as recommended for the various seasons of the year indicated below with a rotary seeder, drop spreader. Spring Rye @ 120 lbs./acre plus Kobe Lespedeza @ 50 lbs./acre Summer: German Millet @ 40 lbs./acre Fall & Winter: Rye @ 150 lbs./acre plus Kobe Lespedeza @ 75 lbs./acre b. Rake seed into soil and lightly pack to establish good contact with a light landscape roller or tamper. c. Water lightly immediately after seeding at rate sufficient to support germination but not strong enough to cause erosion of the slopes or to move seeds. 2. Permanent Seeding: a. Broadcast seed of the types and rates as recommended for the various seasons of the year indicated below with a rotary seeder, drop spreader. Spring or fall Rye @ 40 lbs./acre plus Tall Fescue @ 100 lbs./acre plus Whitton or Alpha Blue Grass @ 40 lbs./acre. b. Rake seed into soil and lightly pack to establish good contact with a light landscape roller or tamper. c. Water lightly immediately after seeding at rate sufficient to support germination but not strong enough to cause erosion of the slopes or to move seeds. Water weekly as required at a minimum rate of 1" to 1" of combined water (irrigation plus rainfall/week). Continue irrigation until first mowing.	
B. Planned Erosion and Sedimentation Control Practices 1. Sediment Basins: Single sediment basin will be constructed in the center of the property in the vicinity of a natural depression which spans the property in a north-south direction. All water from the 41 acre cleared site shall be directed to the basin. Due to the existing grades of the site and the high porosity of the site soils, no storm water runoff is expected to leave the site, but will percolate into the soil within the basin or the constructed diversion swales leading to the basin.		2. The site contractor shall also construct a 150 square foot paved and bermed spill containment pad, for use as temporary storage of hazardous materials, which may occur from accidental spills on the site during construction progress. The pad shall be provided with berm walls, suitable in height, to contain 150% of the effective volume of the pad, which shall be equal to 45 cubic feet. 3. Site will be checked periodically for the presence of any significant spillage of motor fuels, lubricants, hydraulic fluids and other materials that may have been accidentally discharged onto the site as a result of construction activities. 4. The on-site construction manager must be notified of any spill and who in turn, report the spill to the NYSDCE, as required by the environmental laws of the State of New York. 5. Immediate and appropriate action must be taken to contain any spill to include: applying absorbent materials, if the spill is located on paved areas; or excavation of all contaminated soils. If the spill is located on surface soils within the site. Excavated materials, if of a small quantity, shall be placed in specific containment drums, which shall be sealed and placed on the pre-constructed impervious containment pad for immediate removal and disposal by a NYSDCE licensed, hazardous waste disposal company. If the volume of spill exceeds one cubic yard the material shall be excavated and removed from the site by the NYSDCE licensed, hazardous waste disposal company. The spill containment pad, shall be excavated and removed from the site by the NYSDCE licensed, hazardous waste disposal company. 6. The vehicle maintenance and storage and containment pad shall be maintained throughout the construction phase, where shown on the plans. 7. No construction vehicle maintenance is to be performed on-site, except in the designated impervious maintenance and vehicle storage pad, shown on the plans.		D. Mulk 1. Temporary Seeding: a. Apply 90 lbs./1,000 square feet of grain straw and tack with a minimum rate of 0.1 gals./square yard asphalt (11 gals./1,000 square feet) 2. Permanent Seeding: a. In mid-summer, late fall or winter, apply 100 lbs./1,000 square feet of grain straw, cover with netting and staple to slope areas. b. In spring (March, April and may) or fall (September, October and November) use 45 lbs./1,000 square foot wood fiber in a hydro seeder application. E. Maintenance - Temporary and Permanent Seeded Areas: 1. Refertilize in early spring and early fall of each year during construction at a rate of 80 lbs./acre of nitrogen using 50% 10-6-4 organic fertilizer. 2. Lime in early spring and early fall of each year during construction at a minimum rate of 50 lbs./acre of granular limestone. 3. Keep all areas mowed to a height of 2 to 3 inches. 4. Inspect and repair mulch and lining. 5. Top-dress seeded areas and slopes with 10-10-10 50% organic fertilizer where growth is not fully adequate. 6. Top-dress with 50 lbs./acre (1 lbs./1,000 square foot nitrogen (10-6-4 50% organic) fertilizer in March. If cover is required through the summer, overseed with 50 lbs. Kobe Lespedeza.	
2. Temporary Construction Entrance/Exit: a. A temporary paved construction entrance will be installed along the south boundary of the property to provide temporary access to the site from exiting C.R.58. A twenty-foot wide, separate, entrance and exit road are proposed with a minimum 100-foot length. The roads will be graded to slope to the north so that storm water runoff will be directed back to the site where it will dispose of the water into the substrate soils. No truck washing will be permitted in this area. b. The pad will be constructed of 12" minimum thickness washed, clean, crushed rock of sizes 1 1/2" to 3". Mat and soils attached to construction vehicles will be removed by the stone composition of the pad. Maintenance of the pad will be provided and the soils must be removed with generally be graded to slope to the north to drain into the storm water runoff. The purpose of this portion of the project is to construct a temporary construction entrance and exit, hereinafter referred to as "entrances" to provide site access to the site shown on the Soil Erosion and Sediment Control Plan (SW2), including a wheel cleaning pad. This wheel cleaning pad, this wheel cleaning pad shall be in compliance with the standards and specifications of the Suffolk County Department of Public Works (SDPW) and the Town of Riverhead.		3. Loosen the substrate immediately prior to spreading topsoil by digging or scarifying to a depth of at least 2 inches. 4. Spread loam/topsoil either from the site to any or import topsoil as required to a depth of 4 inches. 5. Disk or till and rake to produce uniform and well-pulverized surfaces. 6. Loosen surface prior to applying seed.			
3. Temporary Block and Crushed Rock Drop Inlet Protection: a. Temporary block and crushed rock inlet protection shall be installed on selected new on site storm water inlets through out the site. Runoff from the site that is not directed to the proposed sediment basin or level spreaders will be directed through temporary structures to the selected catch basins during the construction phase of development were the proposed drainage system is constructed. b. All inlet structures shall be provided with temporary drop inlet protection as shown on the SW2PPP.					
c. Protection shall include installing two (1) rows of concrete blocks spaced at a minimum of 3' and a minimum of 1" vertical measurement, to within 3" of the top of the upper row of blocks (see detail). d. One (1) concrete block shall be placed on each side of the structure on its sides the bottom row of blocks to permit drainage to flow into the structure. 1/2" wire mesh shall be installed on the inlet side of each such block. e. Washed, crushed rock topsoil shall be installed around the blocks at a maximum slope of 2 horizontal to 1 vertical measurement, to within 3" of the top of the upper row of blocks (see detail).					
4. Temporary Diversion: a. Temporary diversions will be constructed on the tops and bases of all slopes, principally along the perimeter of the site to prevent surface runoff from existing slope embankments and to collect the runoff from the slopes and direct the runoff and sediment to level spreaders.					





GENERAL INFORMATION		
Location of Site: Town of Riverhead, Suffolk County		
Access: County Road 58 and Kroeber Avenue in the Town of Riverhead		
Suffolk County Tax Map Numbers: 600-10-01-03, 6, 400-11-01-06		
Zoning District: DR-1 (Destination Retail Center)		
Area Data: 600-10-01-03, 03 = 1.698,573,668'² (38.99 Acres)		
600-11-01-06 = 67,500.00'² (1.55 Acres)		
600-11-01-07, 07 = 43,826.80'² (1.01 Acres)		
Total Site Area = 1.609,900.468'² (41.55 Acres)		
Survey information taken from survey done by Joseph Ingrao, Land Surveyor (dated 12-18-2006)		

Basis of Design of Sanitary Sewer System		
Proposed Design Flow (Based On Building Uti):		
Dry Score (Bldg. x Uti)	306,417'³ x 0.02 gpd	= 15,193 gpd
Restaurant (Bldg. x Uti)	218'³ x 0.02 gpd	= 9,540 gpd
Total Design Flow		= 24,733 gpd



Date	Revision	Approval By:
The Shops at Riverhead County Road 58 Riverhead, N.Y. 11901		
E.S. KALOGERAS, P.E. Consulting Engineer		
UNION SQUARE, 727 UNION AVENUE, RIVERHEAD NEW YORK, 11901 TEL: (631) 722-4040 FAX: (631) 722-4004 E-mail: ekal@eskalogeras.com		
Drawn By: Paul F. Sigismundi	Date: October 23rd, 2007	Scale: 1" = 80'
Check: DRC 06-01	Sheet Title: Water Supply Plan	U3 3 of 3

PARKING SUMMARY		
Description	Required	Provided
100' x 200'		636
9.5' x 19.8**	See Parking Calculations	1,461
9.6' x 18.8**		167
Total Sites	2,264	2,264
Loading Spaces: **	No Requirement	9
Handicap Spaces: **	2% of Total (452)	46
Landscaped Spaces: **		165

** - Requirement based on design per code as allowed in the site plan
 ** - Includes number of spaces for loading and unloading of goods
 ** - Included in the Total Provided (Parking Spaces)

PARKING CALCULATIONS

Building	Use	Square Feet	Parking Ratio	Required Parking
A	Retail Store	128,009	1 stall per 200 sf	640.0
	Restrooms, staircases, utility rooms	3,700	Not required	0.0
	Warehouse/Loading	11,371	1 stall per 1,000 square feet for first 5,000 sf and 1 stall per 10,000 thereafter	6.0
	LaB, Bakery, Photo Center,	12,899	1 stall per 300 square feet	43.3
	Total	156,079	Square Feet	689.4
B	Retail Store	51,028	1 stall per 200 sf	259.6
	Restrooms, staircases, utility rooms	2,100	Not required	0.0
	Warehouse/Loading	20,040	1 stall per 1,000 square feet for first 5,000 sf and 1 stall per 10,000 thereafter	6.0
	Total	64,168	Square Feet	265.6
	C	Retail Store	79,245	1 stall per 200 sf
Restrooms, staircases, utility rooms		2,800	Not required	0.0
Warehouse/Loading		16,120	1 stall per 1,000 square feet for first 5,000 sf and 1 stall per 10,000 thereafter	7.0
Total		98,165	Square Feet	403.2
D		Retail Store	17,300	1 stall per 200 sf
	Restrooms, staircases, utility rooms	1,040	Not required	0.0
	Warehouse/Loading	20,400	1 stall per 1,000 square feet for first 5,000 sf and 1 stall per 10,000 thereafter	6.0
	Total	38,740	Square Feet	192.5
	E	Retail Store	12,114	1 stall per 200 sf
Restrooms, staircases, utility rooms		1,117	Not required	0.0
Warehouse/Loading		1,605	1 stall per 1,000 square feet for first 5,000 sf and 1 stall per 10,000 thereafter	2.0
Total		20,400	Square Feet	88.5
F		Furniture Store	47650	1 stall per 200 sf
	Restrooms, staircases, utility rooms	2600	Not required	0.0
	Warehouse/Loading	10700	1 stall per 1,000 square feet for first 5,000 sf and 1 stall per 10,000 thereafter	6.0
	Total	60,950	Square Feet	244.2
	G	Retail Store	21,515	1 stall per 200 sf
Restrooms, staircases, utility rooms		1,300	Not required	0.0
Warehouse/Loading		2,000	1 stall per 1,000 square feet for first 5,000 sf and 1 stall per 10,000 thereafter	2.0
Total		34,815	Square Feet	109.6
H		Retail Store	33,700	1 stall per 200 sf
	Restrooms, staircases, utility rooms	1,800	Not required	0.0
	Warehouse/Loading	39,864	1 stall per 1,000 square feet for first 5,000 sf and 1 stall per 10,000 thereafter	5.0
	Total	75,364	Square Feet	173.5
	I	Retail Store	17,131	1 stall per 200 sf
Restrooms, staircases, utility rooms		1,200	Not required	0.0
Warehouse/Loading		20,331	1 stall per 1,000 square feet for first 5,000 sf and 1 stall per 10,000 thereafter	2.0
Total		38,662	Square Feet	87.7
J		Small Retail Stores	20,750	1 stall per 200 sf
	Restrooms, staircases, utility rooms	3,600	Not required	0.0
	Warehouse/Loading	4,000	1 stall per 1,000 square feet for first 5,000 sf and 1 stall per 10,000 thereafter	4.0
	Total	28,350	Square Feet	107.8
	K	Bank	2,800	1 stall per 200 sf
Restrooms, staircases, utility rooms		700	Not required	0.0
Warehouse/Loading		0	1 stall per 1,000 square feet for first 5,000 sf and 1 stall per 10,000 thereafter	0.0
Total		3,500	Square Feet	14.0
Total Floor Space Excluded Space/ Gross Floor Area		595,697	Total Stalls Required	2,564

* Floor space used for mechanical equipment, building maintenance, elevators, HVAC, required staircases, public restrooms & off-street loading.

BUILDING AREA		Building Lot Coverage*		Gross Floor Area**	
Building	Building Use	Area	Percent	Area	Percent
A	Real Store	64,028 N²	41.728 N²		
B	Real Store	59,911 N²	35.365 N²		
C	Real Store	20,036 N²	12.519 N²		
D	Real Store	20,036 N²	12.519 N²		
E	Furniture Store	39,465 N²	25.330 N²		
F	Furniture Store	23,465 N²	14.615 N²		
G	Real Store	23,465 N²	14.615 N²		
H	Real Store	20,341 N²	12.713 N²		
I	Small Retail Store	26,320 N²	16.250 N²		
J	Small Retail Store	26,320 N²	16.250 N²		
K	Small K				
Total 11		496,053 N²		314,590 N²	

* Building measured for exterior walls.

** Total Floor Area minus floor space used for public restrooms, stairways, elevators, mechanical equipment and maintenance rooms.

Proposed Zoning	Required Zoning	Permitted
Residential Single-Family (R-SF)	Residential Single-Family (R-SF)	Residential Single-Family (R-SF)
Residential Medium-Density (R-MD)	Residential Medium-Density (R-MD)	Residential Medium-Density (R-MD)
Residential High-Density (R-HD)	Residential High-Density (R-HD)	Residential High-Density (R-HD)
Commercial General (C-G)	Commercial General (C-G)	Commercial General (C-G)
Commercial Office (C-O)	Commercial Office (C-O)	Commercial Office (C-O)
Commercial Retail (C-R)	Commercial Retail (C-R)	Commercial Retail (C-R)
Industrial Light (I-L)	Industrial Light (I-L)	Industrial Light (I-L)
Industrial Medium (I-M)	Industrial Medium (I-M)	Industrial Medium (I-M)
Industrial Heavy (I-H)	Industrial Heavy (I-H)	Industrial Heavy (I-H)
Public Use (P-U)	Public Use (P-U)	Public Use (P-U)
Community Center (CC)	Community Center (CC)	Community Center (CC)
Library (L)	Library (L)	Library (L)
Park (P)	Park (P)	Park (P)
School (S)	School (S)	School (S)
Religious (R)	Religious (R)	Religious (R)
Healthcare (H)	Healthcare (H)	Healthcare (H)
Government (G)	Government (G)	Government (G)
Other (O)	Other (O)	Other (O)

	Required
Rate	75% max (1,357.425 ft ²)
Slope	20% min
Landscape	(3,780 ft ²) 50% (64182 ft ²)
Height	50 ft max

TRANSFER OF DEVELOPMENT RIGHTS

Additional Floor Area	364,980 R ²
1,500 R ² of Additional Floor Area = 1 Development Credit	
1,800,900 R ² of 0.20 = 364,980 R ²	
Of Floor Area Allowed by Right Without TDRs	
514,580 R ² - 364,980 R ² = 152,600 R ²	
Additional Floor Area to be converted to TDR Credits	
152,600 R ² / 1,500 R ² = 101.73	
TDR Credits Required	101.73

FINAL BUILDING LOT COVERAGE (Footprint)

FINAL FLOOR AREA RATIO (FAR)		
PROVIDED 514,508 (R7) / 1,609,000-16.16=27.41%		
Description	Allowed	Provided
Footprint Coverage -496,053 (R7) / 1,609,000-16.16=27.41%	15,000 %	27.41 %
Square Feet Allowed (By Right with Setback)	(217,446)	(496,053)
Square Feet Allowed With Transfer of Development Rights	(542,797)	(496,053)
PROVIDED 514,508 (R7) / 1,609,000-16.16=28.43%		
Description	Allowed	Provided
Square Feet Allowed (By Right with Setback)	60,000 %	28.43 %
Square Feet Allowed With Transfer of Development Rights	(1,005,944)	(514,508)

FINAL FLOOR AREA RATIO (FAR)

Description	Allowed	Provided
Square Feet Allowed [By Right with Sewer]	20.00 % (361,980)	28.43 % (514,580)
Square Feet Allowed with Transfer of Development Rights	60.00 % (1,085,940)	28.43 % (514,580)

PROVIDED: 514,580 ft² / 1,807,900-sq-ft = 28.43%

GENERAL INFORMATION

Location of Site: Town of Riverhead, Suffolk County	
Access: County Road 58 and Riverhead Avenue in the Town of Riverhead	
Suffolk County Tax Map Numbers:	600-101-01-0/0-0/3, 600-119-01-0/6 & 600-159-01-0/1
Zoning District:	DR-1 (Residential, Rural District)
Area Data:	
600-101-01-0/0-0/3	38.99 Acres
600-119-01-0/6	- 67,500.00 Ft ²
600-119-01-0/0-1	- 43,626.80 Ft ²
Total Site Area	- 1,898.900 Acres
Google Earth/Mapbox values from aerial photos taken 12-16-2006 Joseph Lindemann, Land Surveyor (Licensed 12-16-2006)	

