NOTES

1. ELEVATIONS SHOWN HEREIN ARE BASED ON THE SURVEY BY LEADING EDGE LAND SERVICES, INC. DATED APRIL 15, 2016 AND ARE RELATIVE TO THE NAVD 1988 VERTICAL DATUM, BASED UPON THE NGS BENCHMARK DESIGNATION F 55 RESET PID AK0041, HAVING AN ELEVATION OF +116.19 FEET NAVD 88 DATUM. REFER TO SURVEY FOR BENCHMARK LOCATIONS.
2. ACCORDING TO THE FEMA FLOOD INSURANCE RATE MAP #FM12069C0565E (DATED DECEMBER 18, 2012), THE SITE RESIDES IN FLOOD ZONE "X", WHICH ARE AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANUAL CHANCE (500-YEAR) FLOOD PLAIN.
3. REFER TO GEOTECHNICAL ANALYSIS BY TERRACON DATED APRIL 27, 2016 (PROJECT NO. H1165093).
4. REFER TO GENERAL DETAILS SHEET AND PAVEMENT PLAN FOR PAVEMENT TYPES.
5. ON-SITE CURB AND GUTTER SHALL BE TYPE D UNLESS SPECIFIED OTHERWISE (REFER TO GENERAL DETAILS SHEET).
6. GENERAL CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES HAVING UNDERGROUND UTILITIES ON SITE OR IN RIGHT-OF-WAY AND SHALL LOCATE ALL UTILITIES PRIOR TO GRADING COMMENCEMENT.
7. TREE BARRICADE AT DRIP LINE OF TREE SHALL BE PROTECTED UNTIL CONSTRUCTION ACTIVITY IN VICINITY REQUIRES REMOVAL.
8. SITE WORK SHALL NOT PROCEED UNTIL APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED.
9. CLEANOUTS SHALL HAVE 2' x 2' x 6" THICK CONCRETE APRON.
10. REFER TO ARCHITECTURAL PLANS FOR ROOF DRAIN CONNECTION INFORMATION. VERIFY IF THE ARCHITECT REQUIRES TWO-WAY CLEANOUTS FOR PIPES NEAR THE BUILDING WALL.
11. ALL AREAS DISTURBED WITHIN THE PUBLIC RIGHT-OF-WAY MUST BE SODDED.
12. GENERAL CONTRACTOR SHALL SOD AT THE BACK OF ALL CURBS, PAVEMENT EDGES, SWALES AND DETENTION AREAS.
13. GENERAL CONTRACTOR SHALL PAVE INVERTS IN DRAINAGE STRUCTURES TO PREVENT IMPOUNDED WATER.
14. 3000 PSI CONCRETE SHALL BE USED FOR SIDEWALKS, ROADWAY AND DRAINAGE STRUCTURES (FDOT STANDARD SPECIFICATIONS SECTION 346).
15. THE CONTRACTOR SHALL LEGALLY DISPOSE OF ALL ITEMS DESIGNATED FOR REMOVAL IN STRICT ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS. SUCH MATERIAL, WHETHER HAZARDOUS OR NON-HAZARDOUS, LAND-CLEARING, CONSTRUCTION OR DEMOLITION DEBRIS SHALL BE PROPERLY HANDLED AND TRANSPORTED TO AN APPROPRIATE OFF-SITE FACILITY.
16. CONTRACTOR SHALL INSTALL DOWNSTREAM STORM PIPE CONNECTION IN THE RIGHT OF WAY PRIOR TO INSTALLATION OF ONSITE STORM PIPING. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES SHOWN ON THE PLANS BY POT-HOLING THE LINES. THE CONTRACTOR SHALL HAVE THE LINES SURVEYED, INCLUDING HORIZONTAL AND VERTICAL LOCATION, AND THE SURVEYED POINTS SENT TO THE PROJECT ENGINEER TO DETERMINE IF ANY UTILITY CONFLICTS WILL AFFECT THE CURRENT STORM DRAINAGE DESIGN.
17. ALL HDPE SHALL BE AASHTO TYPE "S" AND SHALL BE INSTALLED IN ACCORDANCE TO ASTM D2321 OR AASHTO SECTION 30 STANDARD PRACTICES AND AS RECOMMENDED BY THE MANUFACTURER.
18. ALL DRAINAGE CULVERT JOINTS SHALL BE WRAPPED PER FDOT INDEX 280.
19. SLOPES WITHIN THE ACCESSIBLE PARKING AREA AND ACCESS PATHWAYS SHALL NOT EXCEED 1.5% IN ANY DIRECTION.

DOWNSPOUT SCHEDULE

P-101	CONNECT TO U.G. D.S. AT INV. EL. = 139.50 WITH 5 LF OF 6" HDPE AT 2% SLOPE	P-201	CONNECT TO U.G. D.S. AT INV. EL. = 137.68 WITH 5 LF OF 6" HDPE AT 2% SLOPE
D-101	6" CLEANOUT AT INV. EL. = 139.40	D-201	6" CLEANOUT AT INV. EL. = 137.68
P-102	53.91 LF OF 6" HDPE AT 2% SLOPE	P-202	36 LF OF 6" HDPE AT 2% SLOPE
D-102	6" CLEANOUT AT INV. EL. = 138.30	D-202	6" CLEANOUT AT INV. EL. = 136.96
P-103	29.32 LF OF 6" HDPE AT 2% SLOPE	P-203	CONNECT TO U.G. D.S. AT INV. EL. = 136.96 WITH 5 LF OF 6" HDPE AT 2% SLOPE
		P-204	70.61 LF OF 6" HDPE AT 2% SLOPE

STRUCTURE SCHEDULE

D-1 TYPE C GRATE INLET (FDOT INDEX NO. 232)
TOP ELEV. = 142.15
INV. (S) = 139.10 (15" HDPE)
DOWNSTREAM PIPE DATA:
92.07 LF OF 15" RCP @ 1% SLOPE

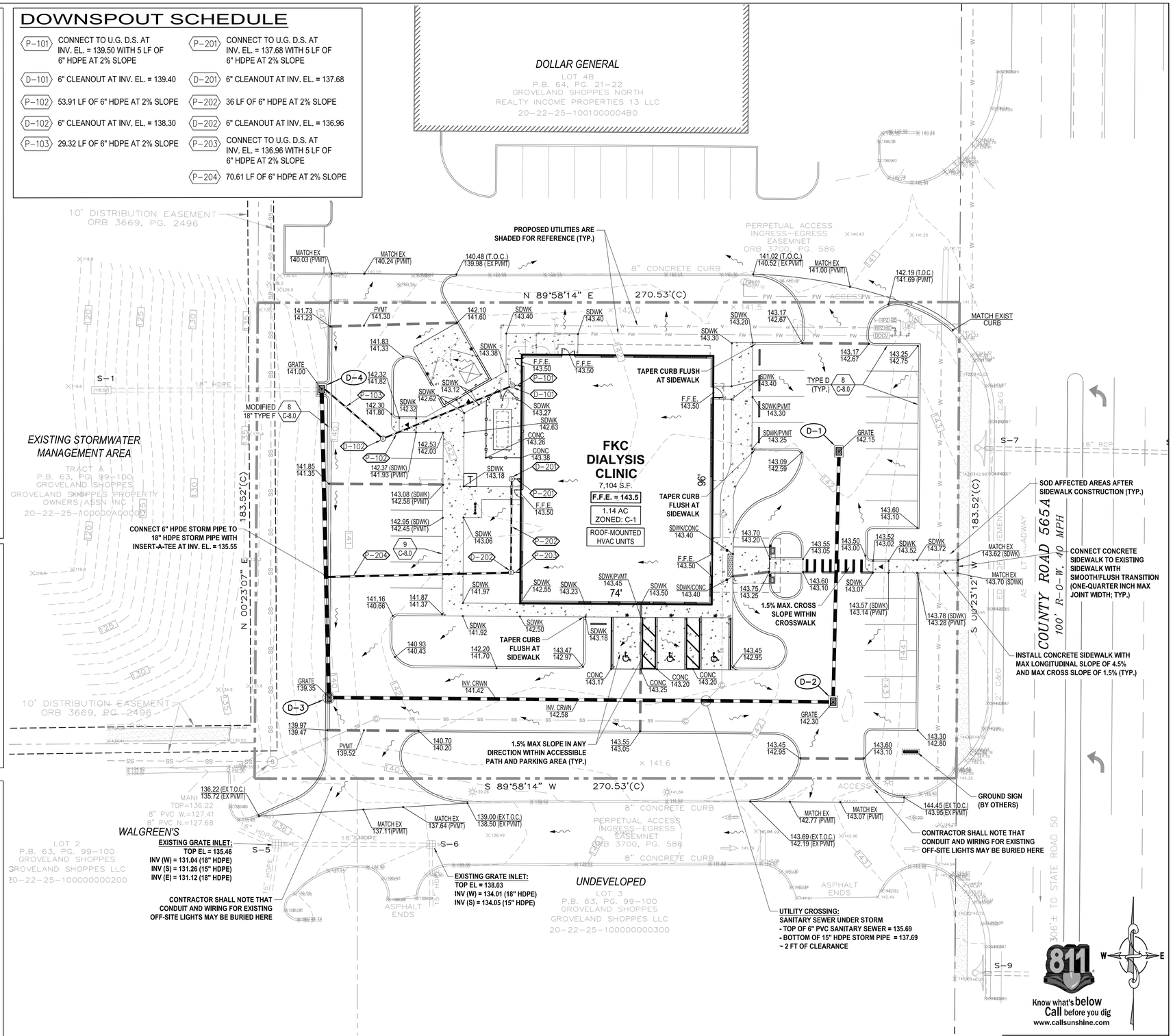
D-2 TYPE C GRATE INLET (FDOT INDEX NO. 232)
TOP ELEV. = 142.30
INV. (N) = 138.17 (15" HPDE)
INV. (W) = 138.17 (15" HDPE)
DOWNSTREAM PIPE DATA:
191.08 LF OF 15" RCP @ 1% SLOPE

D-3 CURB INLET TOP TYPE 9 (FDOT INDEX NO. 214)
GRATE ELEV. = 139.35
INV. (E) = 136.25 (15" HDPE)
INV. (N) = 136.00 (18" HDPE)
DOWNSTREAM PIPE DATA:
115.76 LF OF 18" RCP @ 1.0% SLOPE

D-4 REPLACE OR RAISE TOP OF EXISTING STRUCTURE WITH TYPE C GRATE INLET (FDOT INDEX NO. 232)
EXIST. TOP ELEV. = 139.07
PROPOSED TOP ELEV. = 141.00
EXIST INV. (W) = 125.99 (18" HDPE)
*EXIST INV. (E) = 126.04 (15" HDPE)**
PROP INV. (S) = 134.84 (18" HDPE)
PROP INV. (E) = 137.70 (6" HDPE)*
* REMOVE PIPE AND GROUT HOLE AT EAST INVERT AND CORE NEW HOLE FOR 6" HDPE

LEGEND

- PROPERTY LINE
- CONTOUR LINE
- BASIN/RIDGE LINE
- EXISTING GRADE ELEVATION
- TOP OF CURB / DESCRIPTION FLOWLINE/PAVEMENT EDGE
- DRAINAGE GRATE INLET
- EXISTING DRAINAGE INLET
- DIRECTION OF RUNOFF FLOW
- DRAINAGE CLEANOUT
- FIRE HYDRANT ASSEMBLY
- PROPOSED CONCRETE
- EXISTING CONCRETE
- SEE DETAIL No. 1 ON SHEET C-9.0
- DRAINAGE STRUCTURE DESIGNATION (REFER TO SHEET C-6.1 G&D DETAILS)
- DRAINAGE PIPE
- EXISTING DRAINAGE PIPE
- WATER LINE
- FIRE SERVICE LINE
- EXISTING WATER LINE
- SANITARY SEWER LINE
- EXISTING SANITARY SEWER LINE
- ELECTRIC SERVICE LINE
- TELCO SERVICE LINE



PROJECT:

FRESENIUS KIDNEY CARE
DIALYSIS CLINIC
CLERMONT WEST

LOCATION:

(ADDRESS TO BE ASSIGNED)
N.W.Q. OF C.R. 565A & S.R. 50
GROVELAND
LAKE COUNTY, FL 34736

DEVELOPER:

DOUGLAS C. McNAB, ARCHITECT
8148 OLD FEDERAL ROAD
MONTGOMERY, AL 36117
TEL (334) 271-3015

ENGINEER:

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SEAL:

DAMON M. PARRISH LICENSE No. 73145 STATE OF FLORIDA PROFESSIONAL ENGINEER
06/02/16

REVISIONS	DATE

PROJECT MANAGER:	BK
DRAWING BY:	JEC
JURISDICTION:	CITY OF GROVELAND, FL
DATE:	19 MAY 2016

TITLE:

GRADING AND DRAINAGE PLAN

SHEET NUMBER: C-6.0

SCALE: 1 = 20
20 10 0 20 40
SCALE IN FEET

JOB/FILE NUMBER: 865.001