STANDARD ABBREVIATIONS

NOTE: SEE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS INDEX 001 FOR ADDITIONAL ABBREVIATIONS NOT LISTED BELOW.

A.	AREA
A.A.S.H.T.O.	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRASPORTATION OFFICIALS
ABD.	ABANDONED
AC.	ACRE
A.D.A.	AMERICANS WITH DISABILITIES ACT
ADJ.	ADJUST
A.D.T.	AVERAGE DAILY TRAFFIC
A.E.	ACCESS EASEMENT
A.A.D.T.	ANNUAL AVERAGE DAILY TRAFFIC
AGG.	AGGREGATE
A.I.C.P.	AMERICAN INSTITUTE OF CERTIFIED PLANNERS
ALT.	ALTERNATE
ALUM.	ALUMINUM
A.M.	12:00 MIDNIGHT UNTIL 12:00 NOON
A.N.S.I.	AMERICAN NATIONAL STANDARDS INSTITUTE
APPL.	APPLICATION
ASPH.	ASPHALT
ASSEM.	ASSEMBLY
A.S..M.	AMERICAN SOCIETY FOR TESTING MATERIALS
AUX.	AUXILIARY
AVE.	AVENUE
AVG.	AVERAGE
BA.	BARREL
B.E.	BURIED ELECTRIC
BEG.	BEGIN
BK.	BACK
B/L	BASE LINE
BLDG.	BUILDING
BLVD.	BOULEVARD
B.M.	BENCHMARK
B.O.C.	BACK OF CURB
BOT.	BOTTOM
B.P.	BORROW PIT
BR.	BRIDGE
BRG.	BEARING
B.T.	BURIED TELEPHONE
BU.	BUSHEL
B/W	BARBED WIRE
CALC.	CALCULATED
(C)	CALCULATED
CAP.	CAPACITY
CATV.	CABLE TELEVISION
C.B.	CATCH BASIN
CBC.	CONCRETE BOX CULVERT
CBS.	CONCRETE BOX STRUCTURE
C/C.	CENTER TO CENTER
COMB.	COUNTY COMMISSIONERS MINUTES BOOK
CEM.	CEMENT
C.F.	CUBIC FOOT
C.I.	CAST IRON
C.I.P.	CAST IRON PIPE
C/L	CENTER LINE
CONC.	CONCRETE
C.M.	CONCRETE MONUMENT
C.M.P.	CORRUGATED METAL PIPE
CO.	COUNTY OR COMPANY
C/O	CLEANOUT
COL.	COLUMN
COM.	COMMERCIAL
CONST.	CONSTRUCTION
CONTR.	CONTRACTOR
COORD.	COORDINATE
COR.	CORNER
C.P.	CONTROL POINT
C.R.	CONTROL RADIUS
C.S.	CONTROL STRUCTURE
COR.	CENTER
CULV.	CULVERT
C.Y.	CUBIC YARD
CYL.	CYLINDRICAL
D.	DEGREE OF CURVATURE
DA.	DAY(S)
(D)	DEED
D.A.	DRAINAGE AREA
D.B.	DEED BOOK
D.B.I.	DITCH BOTTOM INLET
DBL.	DOUBLE
D.C.S.	DEGREE OF CURVATURE
D.D.C.V.	DOUBLE DETECTOR CHECK VALVE
D.E.	DRAINAGE EASEMENT
DECEL.	DECELERATION
DEMOBL.	DEMOBILIZATION
DEN.	DENSITY
DEPT.	DEPARTMENT
DET.	DETOUR
D.H.W.	DESIGN HIGH WATER
DIA.	DIAMETER
D.I.P.	DUCTILE IRON PIPE
DIR.	DIRECTION
DIST.	DISTANCE
D.O.T.	DEPARTMENT OF TRANSPORTATION
DR.	DRIVE
DRWY.	DRIVEWAY
D.S.	DESIGN SPEED
D.S.W.T.	DRY SEASON WATER TABLE
DWG.	DRAWING
E.	EAST
EA.	EACH
e.	RATE OF SUPER ELEVATION
ED.	PER EACH PER DAY
E.I.	ENGINEERING INTERN
EL.or ELEV.	ELEVATION
ELEC.	ELECTRIC
ELLIP.	ELLIPTICAL
EMBK.	EMBANKMENT
ENCL.	ENCLOSURE
E.O.P.	EDGE OF PAVEMENT
E.O.W.	EDGE OF WATER
EQ.	EQUATION OR EQUAL
EQUIP.	EQUIPMENT
E.R.C.P.	ELLIPTICAL REINFORCED CONCRETE PIPE
ESMT.	EASEMENT
ETC.	ET CETERA (AND SO FORTH)
E.W.	ENDWALL
EXCAV.	EXCAVATION
EX.	EXISTING
EXP.	EXPANSION
EXT.	EXTENSION
F.	FILL
F. to F.	FACE TO FACE
FAC.	FLORIDA ADMINISTRATIVE CODE
F.A.C.B.C.	FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION
F.B.C.	FLORIDA BUILDING CODE
FD.	FOUND
F.D.C.	FIRE DEPARTMENT CONNECTION
FDN.	FOUNDATION
F.D.OT.	FLORIDA DEPARTMENT OF TRANSPORTATION
FED.	FEDERAL
FERT.	FERTILIZER
F.E.S.	FLARED END SECTION
F.F.E.	FINISHED FLOOR ELEVATION
FH.	FIRE HYDRANT
FHWA.	FLORIDA HIGHWAY ADMINISTRATION
F.	FINISH
FL.	FLORIDA
F.	FLEXIBLE
F.O.C.	FACE OF CURB
F.P.C.	FEET PER SECOND
FRAC.	FRACTION
FREQ.	FREQUENCY
FT.	FOOT OR FEET
FURN.	FURNISH
G.	GRAM
GAL.	GALLON
GALV.	GALVANIZED
GA.	GAUGE OR GAGE
GAR.	GARAGE
GOVT.	GOVERNMENT
GM.	GROSS MILE
GR.	GUARDRAIL
GRND.	GROUND
GV.	GATE VALVE
H.	HEIGHT
H.D.	HIGH DENSITY
HDWL.	HEADWALL
HDR.	HANDRAIL
HORIZ.	HORIZONTAL
H.P.	HIGH PRESSURE or HORSE POWER
H.W.	HIGH WATER
HWY.	HIGHWAY
HYD.	HYDRANT
I.	EXTERNAL ANGLE (DELTA)
I.D.	INSIDE DIAMETER
I.E.	INVERT ELEVATION
IN.	INCH
INC.	INCORPORATED
INCL.	INCLUDED
I.P.	IRON PIPE
I.R.	IRON ROD
INSTL.	INSTALL or INSTALLATION
INST. NO.	INSTRUMENT NUMBER
INT.	INTERSECTION
INV.	INVERT
J.B.	JUNCTION BOX
JCT.	JUNCTION
JT.	JOINT
K.	RATE OF VERTICAL CURVATURE
km.	KILOMETER
KV.	KILOVOLT
KVA.	KILOVOLT AMPERES
L.	LENGTH or LENGTH OF CURVE or LITRE
2L.	TWO LANE
L.A.	LIMITED ACCESS
LAT.	LATERAL or LATITUDE
LB.	POUND or LICENSED BUSINESS
L.C.R.	LEE COUNTY RECORDS
L=	ARC LENGTH
LF.	LINEAR FOOT
L.M.E.	LAKE MAINTENANCE EASEMENT
LMRK.	LIMEROCK
LOC.	LOCATION
L.S.	LUMP SUM
LT.	LEFT
M.	MASS
(M)	MEASURED
MAINT.	MAINTENANCE
MAX.	MAXIMUM
MED.	MEDIAN
M.E.S.	MITERED END SECTION
MG	1000 GALLONS
M.H.	MANHOLE
M.H.W.	MEAN HIGH WATER
MI.	MILE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
M.L.W.	MEAN LOW WATER
MM.	MILLIMETER
MOD.	MODIFY or MODIFIED
MON.	MONUMENT
M.O.T.	MAINTENANCE OF TRAFFIC
M.P.H.	MILES PER HOUR
M.S.L.	MEAN SEA LEVEL
M.U.T.C.D.	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
N.	NORTH
N/A	NOT APPLICABLE
NE.	NORTHEAST
N.G.V.D.	NATIONAL GEODETIC VERTICAL DATUM OF 1929
N.A.V.D.	NORTH AMERICAN VERTICAL DATUM OF 1988
N.G.S.	NATIONAL GEODETIC SURVEY
N.H.W.A.	NORMAL HIGH WATER
NM.	NET MILE
N.T.S.	NOT TO SCALE
NW.	NORTH WEST
OA.	OVERALL
O.D.	OUTSIDE DIAMETER
O.E.	OVERHEAD ELECTRIC
OH.	OVERHEAD
OPT.	OPTIONAL
O.R.	OFFICIAL RECORD BOOK
OZ.	OUNCE
(P)	PLAT
PAVT.	PAVEMENT
P.E.	PROFESSIONAL ENGINEER
PED.	PEDESTRIAN or PEDESTAL
PG.	PAGE
P.G.L.	PROFILE GRADE LINE
P.I.V.	POST INDICATOR VALVE
pH	MEASURE OF ACIDITY OR ALKALINITY
P.I.	POINT OF INTERSECTION
PK.	PARKER-KALON
PL.	PROPERTY LINE
P.M.	12:00 NOON UNTIL 12:00 MIDNIGHT
P.O.C.	POINT ON CURVE
P.P.	POWER POLE
P.R.C.	POINT OF REVERSE CURVATURE
P.R.M.	PERMANENT REFERENCE MONUMENT
PROP.	PROPERTY
P.U.E.	PUBLIC UTILITY EASEMENT
P.S.I.	POUNDS PER SQUARE INCH
P.S.M.	PROFESSIONAL SURVEYOR AND MAPPER
P.V.C.	POLYVINYL CHLORIDE PIPE
Q.	PEAK DISCHARGE or FLOW VOLUME (CFS)
QTY.	QUANTITY
R.or RAD.	RADIUS
RD.	ROAD
RNG.	RANGE
R.C.P.	REINFORCED CONCRETE PIPE
RNG.	RANGE
REC.	RECORD
RECT.	RECTANGULAR
REINF.	REINFORCED or REINFORCING
REL.	RELOCATED
REM.	REMOVED
REQ.	REQUIRED
RES.	RESIDENCE
R.M.	REFERENCE MONUMENT
R.P.M.	RAISED REFLECTIVE PAVEMENT MARKERS
R.P.B.D.	REDUCED PRESSURE BACKFLOW PREVENTION DEVICE
R.R.	RAILROAD
RT.	RIGHT
R/W	RIGHT OF WAY
S.	SOUTH
SAN.	SANITARY
SCH.	SCHEDULE
SE.	SOUTHEAST
SEC.	SECTION
SED.	SEDIMENT
SG.	SPECIFIC GRAVITY
SH.	SHEET
SHLDR.	SHOULDER
S.H.W.T.	SEASONAL HIGH WATER TABLE
SPEC.	SPECIFICATION
S.F.	SQUARE FOOT
S.R.	STATE ROAD
ST.	STREET
STA.	STATION
STAB.	STABILITY or STABLIZATIONS
STD.	STANDARD
STR.	STRUCTURE
S.Y.	SQUARE YARD
STY.	SOUTHWEST
S/W	SIDEWALK
T.	THICKNESS
TAN.	TANGENT
TWP.	TOWNSHIP
T.B.M.	TEMPORARY BENCH MARK
T.B.D.	TO BE DETERMINED
T.B.R.	TO BE REMOVED
TEL.	TELEPHONE
TEMP.	TEMPORARY
TN.	TON
T.U.E.	TECHNOLOGY UTILITY ESMT.
TYP.	TYPICAL
UG.	UNDERGROUND
U.E.	UTILITY EASEMENT
USC&GS	UNITED STATES COAST AND GEODETIC SURVEY
USGS	UNITED STATES GEOLOGICAL SURVEY
UTIL.	UTILITIES
V.	VOLUME
VAR.	VARIABLE
V.C.	VERTICAL CURVE
VEH.	VEHICLE
V.F.	VERTICAL FOOT
VERT.	VERTICAL
VOL.	VOLUME
W.	WEST
WIT.	WITNESS
W.M.	WATER MAIN
X.	COORDINATE DISTANCE (EAST-WEST)
XING.	CROSSING
Y.	COORDINATE DISTANCE (NORTH-SOUTH)
YR.	YEAR

GENERAL NOTES

NOTE: SEE ADDITIONAL NOTES ON SITE DEVELOPMENT PLANS AND DETAIL SHEETS WHICH ARE SPECIFIC TO THIS PROJECT. IN THE EVENT OF A CONFLICT, UTILIZE NOTES ON SITE DEVELOPMENT PLANS.

1. THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE LATEST EDITIONS OF THE F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, F.D.O.T. DESIGN STANDARDS AND APPLICABLE DESIGN STANDARDS MODIFICATIONS FOUND AT http://www.dot.state.fl.us/rddesign AND ALL LOCAL CODES.
2. ALL APPROVALS REQUIRED IN CONJUNCTION WITH THESE NOTES MUST BE OBTAINED IN WRITING BY THE CONTRACTOR. ANY DEVIATIONS FROM THE PLANS AND / OR SPECIFICATIONS MUST BE APPROVED IN ADVANCE BY THE OWNER, ENGINEER AND APPROPRIATE REGULATORY AGENCY.
3. CONTRACTOR SHALL ENSURE THAT ALL PERMITS ARE IN PLACE PRIOR TO CONSTRUCTION, THAT COPIES OF ALL PERMITS ARE RETAINED ON SITE AT ALL TIMES AND SHALL ADHERE TO ALL PERMIT CONDITIONS. AT LEAST 72 HOURS PRIOR TO CONSTRUCTION CONTRACTOR SHALL NOTIFY THE LOCAL MAINTENANCE ENGINEERS OFFICE TO SECURE GENERAL USE PERMITS AND / OR OTHER PERMITS REQUIRED FOR WORK WITHIN F.D.O.T. RIGHT-OF-WAY.
4. ALL CONSTRUCTION SHALL COMPLY WITH THE LATEST VERSIONS OF THE AMERICANS WITH DISABILITIES ACT (A.D.A.), THE FLORIDA FIRE CODE AND THE FLORIDA ACCESSIBILITY CODE FOR BUILDING CONSTRUCTION (F.A.C.B.C.).
5. SIDEWALKS ARE DESIGNED AND INTENDED FOR PEDESTRIAN TRAFFIC ONLY. ALL SIDEWALKS AND CURB CUTS SHALL BE IN ACCORDANCE WITH F.D.O.T. INDEX 304 AND SHALL INCLUDE DETECTABLE WARNING SURFACES. VALLEY GUTTER ADJACENT TO CURB CUTS SHALL DEVIATE FROM STANDARD DETAIL BY NOT EXCEEDING 12:1 SLOPES.
6. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, OWNER'S REPRESENTATIVE AND APPROPRIATE AGENCY A MINIMUM OF 72 HOURS PRIOR TO ALL INSPECTIONS REQUIRED BY THE RESPECTIVE PERMIT.
7. THE CONTRACTOR SHALL NOTIFY THE OWNER AND CONTACT ALL UTILITY COMPANIES FOR LOCATIONS OF EXISTING UTILITIES A MINIMUM OF 72 HOURS PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL DETERMINE IF UTILITIES OTHER THAN THOSE SHOWN ON THESE PLANS EXIST. THE LOCATION OF EXISTING UTILITIES, PAVEMENT, VEGETATION AND OTHER IMPROVEMENTS ARE APPROXIMATE ONLY. THE EXACT SIZES, ELEVATIONS AND LOCATIONS SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION OR ORDERING MATERIALS. CONTRACTOR SHALL NOTIFY ENGINEER / OWNER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
8. ANY PUBLIC LAND CORNER OR BENCHMARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED AND IF IN DANGER OF BEING DESTROYED MUST BE PROPERLY REFERENCED BY THE CONTRACTOR.
9. EXISTING IMPROVEMENTS SHALL REMAIN UNLESS NOTED OTHERWISE, AND SHALL BE RESTORED TO A CONDITION EQUIVALENT TO THAT WHICH EXISTED PRIOR TO COMMENCING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER. EXISTING OFF-SITE DRAINAGE PATTERNS SHALL BE MAINTAINED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL OBTAIN ANY CLEARING, VEGETATION REMOVAL OR RIGHT-OF-WAY PERMITS REQUIRED FOR THIS PROJECT. ALL DEBRIS SHALL BE REMOVED FROM SITE AND PROPERLY DISPOSED OF.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS. CONTRACTOR SHALL ASSURE THAT ALL TRAFFIC CONTROL DEVICES MEET ACCEPTABLE STANDARDS AS OUTLINED IN THE LATEST EDITION OF THE AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA's) "QUALITY STANDARDS FOR WORK ZONE TRAFFIC CONTROL DEVICES", AND SHALL IMMEDIATELY REPAIR, REPLACE OR CLEAN DAMAGED, DEFACED OR DIRTY DEVICES. TRAFFIC CONTROL OPERATION PROCEDURES SHALL BE SUBMITTED TO OWNER FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION. ANY IMPACTS TO TRAFFIC FLOW SHALL BE COORDINATED WITH AND APPROVED BY THE APPROPRIATE LOCAL AGENCY.
12. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER AND OWNER'S REPRESENTATIVE.
13. THE LOCATIONS OF PROPOSED DRAINAGE STRUCTURES AND UTILITY LINES MAY BE FIELD ADJUSTED TO PRESERVE EXISTING VEGETATION AS APPROVED IN ADVANCE BY THE ENGINEER. UNDERGROUND CONTRACTOR SHALL MINIMIZE THE WORK AREA AND WIDTH OF TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. EXERCISE CARE TO PROTECT THE ROOTS OF TREES TO REMAIN. WITHIN THE BRANCH SPREAD OF SUCH TREES, PERFORM ALL TRENCHING BY HAND. OPEN THE TRENCH ONLY WHEN UTILITIES CAN BE INSTALLED IMMEDIATELY. PRUNE INJURED ROOTS CLEANLY AND BACKFILL AS SOON AS POSSIBLE. SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS OR AS DIRECTED BY THE OWNER. CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY TREES AND/OR SHRUBS WITHOUT PRIOR APPROVAL BY OWNER.
14. INSTALLATION OF SUBSURFACE CONSTRUCTION, INCLUDING BUT NOT LIMITED TO WATER, SEWER AND IRRIGATION LINES, PUBLIC UTILITIES AND STORM DRAINAGE IS REQUIRED PRIOR TO COMPACTION OF THE ROADWAY SUBGRADE.
15. SUBGRADE AND LIMEROCK BASE COURSES TO BE COMPACTED TO 98% MINIMUM OF THE MAXIMUM DRY DENSITY AS SPECIFIED BY AASHTO T-180 TESTING. CONTRACTOR SHALL PROVIDE THE ENGINEER SATISFACTORY DENSITY TESTS FOR SUBGRADE AND LIMEROCK PRIOR TO PAYMENT OR FINAL ACCEPTANCE. EXCESS ROAD BASE AND COMPACTED SOIL SHALL BE REMOVED FROM ALL LANDSCAPE AREAS PRIOR TO FINAL GRADING.
16. SWALE ELEVATIONS SHOWN ARE TO TOP OF SOD. CONTRACTOR TO ADJUST SWALE GRADING ACCORDINGLY. ALL UNPAVED AREAS SHALL BE GRADED TO DRAIN TO THE DRAINAGE SYSTEM TO PREVENT STANDING WATER. YARD DRAINS MAY BE ADDED IN GREEN AREAS AS NECESSARY AT THE DIRECTION OF THE LANDSCAPE ARCHITECT OR ENGINEER, AND SHALL HAVE PEDESTRIAN-SAFE GRATES MEETING THE REQUIREMENTS OF H-20 LOADING.
17. BERM ELEVATIONS SHOWN ARE THE MINIMUM REQUIRED. CONTRACTOR MAY EXCEED THE MINIMUM BERM ELEVATION BY UP TO 0.5 FEET PROVIDED ALL SLOPE CRITERIA IS MET. ANY CONSTRUCTION OF BERMS IN EXCESS OF THAT LIMIT MUST BE APPROVED BY THE ENGINEER PRIOR TO CONSTRUCTION.
18. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WITHIN ONE WEEK OF COMPLETION OF DRAINAGE CONTROL STRUCTURES SO THAT ELEVATIONS MAY BE VERIFIED PRIOR TO COMPLETION OF CONSTRUCTION.
19. THE CONTRACTOR IS REQUIRED TO ADJUST ALL EXISTING AND PROPOSED VALVE BOXES, MANHOLE RIMS, GRATES AND OTHER IMPROVEMENTS AS REQUIRED TO MATCH THE FINAL GRADE.
20. THE CONTRACTOR SHALL COORDINATE WITH THE OWNERS REPRESENTATIVE IN REGARDS TO THE LOCATION, SIZE AND QUANTITY OF ALL CONDUITS FOR UTILITIES, IRRIGATION, LIGHTING AND OTHER IMPROVEMENTS PRIOR TO CONSTRUCTION OF THE ROADWAY SUBGRADE. CASING AND/OR CONDUIT SHALL HAVE A MINIMUM OF 30" COVER, EXTEND 5' BEYOND THE EDGE OF PAVEMENT, BACK OF CURB AND/OR SIDEWALK AT EACH END, AND ENDS SHALL BE SEALED AND DENOTED WITH MARKING TAPE
21. CONTRACTOR SHALL NOTIFY THE ENGINEER 24 HOURS PRIOR TO PLACING SOD ON AREAS THAT REQUIRE CRITICAL MINIMUM OR MAXIMUM ELEVATIONS IN ORDER FOR ENGINEER TO VERIFY SUCH ELEVATIONS. THE OBLIGATION TO ACHIEVE MINIMUM ELEVATIONS REMAINS WITH THE CONTRACTOR.
22. SOD A 12" STRIP ADJACENT TO ALL PAVEMENT PER F.D.O.T. REQUIREMENTS. SOD ALL UNPAVED DISTURBED AREAS WITHIN F.D.O.T. RIGHT OF WAY. ALL OTHER UNPAVED AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED, FERTILIZED AND MULCHED UNLESS NOTED OTHERWISE.
23. THE CONTRACTOR SHALL REMOVE ALL UNSUITABLE MATERIAL ENCOUNTERED FROM FILL AREAS PRIOR TO PLACEMENT OF FILL, AND SUCH MATERIAL SHALL BE STOCKPILED OR REMOVED AS DIRECTED BY OWNER.
24. THE PROPERTY OWNER OR DESIGNATED AUTHORITY IS RESPONSIBLE FOR THE PERPETUAL MAINTENANCE OF ALL FEATURES OF THE SURFACE WATER MANAGEMENT SYSTEM AS SHOWN IN THESE DRAWINGS AND AS REQUIRED BY LOCAL, STATE AND FEDERAL PERMITS. IT IS FURTHER RECOMMENDED THAT THE SURFACE WATER MANAGEMENT SYSTEM BE INSPECTED SEMI-ANNUALLY.
25. CONTRACTOR SHALL VERIFY DESIGN DETAILS WITH ENGINEER PRIOR TO ORDERING STRUCTURES. STRUCTURE TYPES LABELED ON THE PLANS FOR ITEMS SUCH AS JUNCTION BOXES AND INLETS MAY ONLY BE A REFERENCE TO THE TOP OF THE STRUCTURE. CERTAIN STRUCTURE TYPES REQUIRE A LARGER BOTTOM TO ACCOMMODATE LARGER PIPE SIZES AND/OR PIPE ANGLES. THE APPROPRIATE SIZE AND SHAPE OF THE BOTTOM OF THE STRUCTURE SHALL BE DETERMINED BY THE CONTRACTOR WITH CONSIDERATION GIVEN TO ADJACENT EXISTING OR PROPOSED UTILITIES. THE COST FOR THE ENTIRE STRUCTURE IS INCLUDED IN THE UNIT PRICE FOR THE PRIMARY STRUCTURE.
26. STORM DRAIN PIPE LENGTHS ARE APPROXIMATE AND HAVE BEEN MEASURED FROM INSIDE FACE OF STRUCTURE. SANITARY SEWER PIPE LENGTHS ARE APPROXIMATE AND ARE MEASURED FROM THE CENTER OF STRUCTURE.
27. CONTRACTOR SHALL MAINTAIN MINIMUM SEPARATION BETWEEN UTILITIES AS SHOWN ON "UTILITY LOCATION DETAIL" AND IN ACCORDANCE WITH APPLICABLE LOCAL UTILITY SERVICE PROVIDER REQUIREMENTS.
28. ALL COMPONENTS OF THE POTABLE WATER SYSTEM SHALL BE IN CONFORMANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE / NSF INTERNATIONAL STANDARD 61. ALL COMPONENTS, INSTALLATION AND TESTING OF THE POTABLE WATER SYSTEM SHALL BE IN ACCORDANCE WITH ALL A.W.W.A. APPLICABLE STANDARDS.
29. CONTRACTOR TO COORDINATE WITH ALL OTHER CONTRACTORS WORKING ON THE PROJECT SITE, THE OWNERS' REPRESENTATIVE AND WITH ELECTRIC, TELEPHONE AND CABLE COMPANIES TO ASSURE THAT NO SANITARY SEWER, WATERLINE OR IRRIGATION SERVICES ARE INSTALLED UNDER PROPOSED TRANSFORMERS.
30. DEFLECTION TESTING IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS FOR GRAVITY SEWER MAY NOT BE UNDERTAKEN UNTIL 30 DAYS AFTER FINAL BACKFILLING OF THE TRENCH IS COMPLETE. SEWER DEFLECTION MAY NOT EXCEED THE MAXIMUM PROVIDED IN THE TECHNICAL SPECIFICATIONS OR 5%, WHICHEVER IS LESS.
31. ALL GRAVITY SEWER MAINS SHALL BE TESTED WITH A MANDREL WITH A DIAMETER OF NOT LESS THAN 95% OF THE INSIDE PIPE DIAMETER. MANDREL TESTS MUST BE PERFORMED WITHOUT USE OF MECHANICAL PULLING DEVICES.
32. NO VEGETATION OR OTHER OBSTRUCTIONS SHALL BE PLACED SO AS TO BLOCK ACCESS OR LINE OF SIGHT TO FIRE HYDRANTS, F.D.C, P.I.V, ETC. IN ACCORDANCE WITH LOCAL FIRE JURISDICTION AND / OR AS SHOWN IN DETAILS.
33. SEPARATE PERMITS MAY BE REQUIRED FOR ANY DEDICATED FIRE LINE. UNDERGROUND FIRE LINES MUST MEET REQUIREMENT OF NFPA 24. CONTRACTOR TO VERIFY FIRE LINE SIZE WITH BUILDING PLANS PRIOR TO CONST.

SYMBOL LEGEND

NOTE: THE SYMBOLS REPRESENTED BELOW ARE STANDARDS UTILIZED BY THIS FIRM AND NOT ALL ARE REQUIRED FOR THE SUBJECT PROJECT.

DRAINAGE

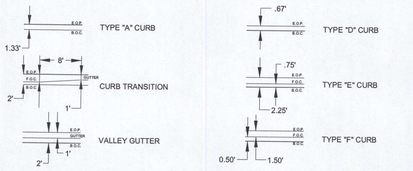
- VALLEY GUTTER INLET
- DITCH BOTTOM INLET
- DRAINAGE JUNCTION BOX
- MITERED END SECTION
- CONTROL STRUCTURE
- HEADWALL
- FLARED END SECTION
- TYPE 5 INLET (LEFT)
- TYPE 5 INLET (RIGHT)
- TYPE 6 INLET
- TYPE 9 INLET
- TYPE 10 INLET
- YARD DRAIN
- FLOW ARROW

UTILITIES

- 11.25° BEND
- 22.5° BEND
- 45° BEND
- 90° BEND
- TEE
- REDUCER
- AIR RELEASE VALVE
- WYE
- CROSS
- CAP OR PLUG
- BACTERIAL SAMPLE POINT
- PERMANENT BLOW OFF ASSEMBLY
- TEMPORARY BLOW OFF ASSEMBLY
- 45° VERTICAL DEFLECTION
- GATE VALVE
- PLUG VALVE
- SANITARY SEWER MANHOLE
- SINGLE SANITARY SEWER SERVICE
- DOUBLE SANITARY SEWER SERVICE
- CLEANOUT
- PUMP STATION
- SINGLE REUSE SERVICE
- DOUBLE REUSE SERVICE
- SINGLE WATER SERVICE
- DOUBLE WATER SERVICE
- FIRE HYDRANT ASSEMBLY (PLAN VIEW)
- FIRE HYDRANT ASSEMBLY (PROFILE VIEW)
- GATE VALVE (PROFILE VIEW)

STANDARD CURB TYPES

SEE F.D.O.T. INDEX 300 FOR ADDITIONAL DETAILS



SIGNAGE AND MARKINGS

- SIGN (PLAN VIEW)
- CONSERVATION SIGN LOCATION NOTE: FINAL LOCATIONS TO BE FIELD LOCATED AFTER CONSTRUCTION WITH WATER MANAGEMENT DISTRICT STAFF.
- HANDICAP SYMBOL
- MODEL HOMES, MODEL UNITS, MODEL DISPLAY CENTERS.
- "NO MOWING/HERBICIDING" SIGN ALONG LAKE SHORELINE
- LEFT ONLY
- RIGHT ONLY
- LEFT OR RIGHT
- STRAIGHT OR RIGHT
- STRAIGHT OR LEFT
- STRAIGHT, LEFT OR RIGHT
- STRAIGHT

IDENTIFICATION

- LOT NUMBER
- BUILDING ID NUMBER
- STORM STRUCTURE I.D.
- SANITARY STRUCTURE I.D.
- FIRE HYDRANT LABEL
- SOIL BORING LOCATION
- SECTION LABEL
- NORTH ARROW
- BAR SCALE



EROSION CONTROL

NOTE: SEE EROSION CONTROL DETAILS FOR ADDITIONAL INFORMATION.

- INLET PROTECTION
- DOUBLE ROW SILT FENCE
- SINGLE ROW SILT FENCE
- FLOATING TURBIDITY BARRIER

SURVEYING

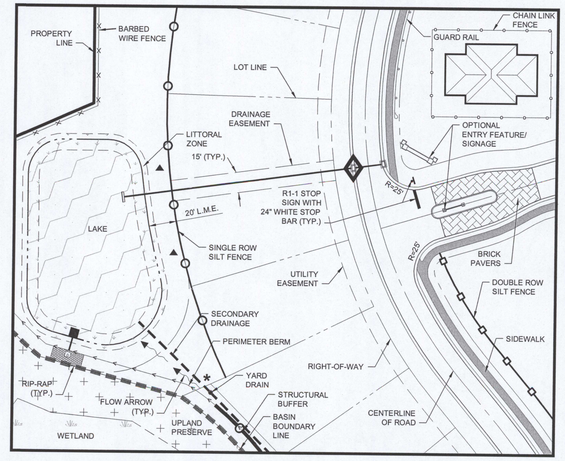
- FOUND NAIL AS NOTED
- SET 1/2" IRON ROD WITH CAP STAMPED LB6940
- SET 4"x4" CONC. MONUMENT STAMPED LB6940
- SET P.K. NAIL WITH DISC STAMPED LB6940
- FOUND CONC. MONUMENT AS NOTED
- FOUND IRON PIPE OR IRON ROD AS NOTED
- DRAINAGE INLET
- DRAINAGE MANHOLE
- MITERED END SECTION
- LIGHT POLE
- CONCRETE POWER POLE
- WOOD POWER POLE
- GUY ANCHOR
- GAS LINE MARKER
- TELEPHONE RISER
- WATER BOX
- ELECTRIC BOX
- SIGN
- FIRE HYDRANT
- WATER VALVE
- SANITARY MANHOLE
- SANITARY CLEAN OUT
- SANITARY SEWER VALVE
- BENCH MARK

QUANTITIES AND PAYMENT

CONTRACTOR SHALL REFER TO THE BID TABULATION AND PROJECT TECHNICAL SPECIFICATIONS FOR NOTES REGARDING THE METHOD OF PAYMENT FOR SPECIFIC PAY ITEMS. ITEMS NOT SPECIFICALLY REFERENCED IN THE SPECIFICATIONS OR BID TABULATION SHALL BE PAID FOR PER THE LATEST VERSIONS OF THE APPROPRIATE F.D.O.T. DESIGN STANDARDS INDEX AND F.D.O.T. STANDARD SPECIFICATION SECTION.

LINETYPE AND HATCHING LEGEND

NOTE: THE DRAWING BELOW IS PROVIDED AS ONLY AN EXAMPLE OF STANDARD LINETYPES AND HATCHING UTILIZED BY THIS FIRM AND IS NOT REPRESENTATIVE OF THE SUBJECT PROJECT.



STANDARD STREET SIGNS

THE SIGN LEGEND BELOW IS PROVIDED AS A GRAPHICAL REFERENCE TO ONE OR MORE OF THE SIGNS REQUIRED FOR THIS PROJECT. THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (M.U.T.C.D.) SHOULD BE REFERENCED FOR SPECIFIC DETAILS AND LOCATION REQUIREMENTS.

- STOP — R1-1 — STOP SIGN - ALL STOP SIGNS SHALL INCLUDE A 24" WIDE PAINTED STOP BAR
- YIELD — R1-2 — YIELD SIGN
- DO NOT ENTER — R5-1 — DO NOT ENTER SIGN
- HANDICAP PARKING SIGN — FTP-20-04, FTP-22-04
- SPEED LIMIT XX — R2-1 — SPEED LIMIT SIGN
- KEEP RIGHT SIGN — R4-7
- CONSERVATION AREA NO CONSTRUCTION OR DUMPING ALLOWED — PRESERVE SIGN
- W1-6L — LARGE LEFT ARROW (ONE DIRECTION) SIGN
- W1-6R — LARGE RIGHT ARROW (ONE DIRECTION) SIGN
- W1-7 — TWO-DIRECTION LARGE ARROW SIGN
- W11A-2 — PEDESTRIAN C