NOTES:
1. INITIAL BACKFILL SHALL BE FREE AND CLEAR OF ROCKS 2" IN DIAMETER OR LARGER.
2. ALL PVC SEWERS SHALL USE CLASS "B" BEDDING.
3. ALL DIP SEWERS WITH LESS THAN 24 FEET IN INVERT DEPTH SHALL USE CLASS "C" BEDDING.
4. ALL DIP SEWERS WITH GREATER THAN 24 FEET IN INVERT DEPTH SHALL USE CLASS "D" BEDDING.

PIPE BEDDING AND HAUNCHING DETAILS

SCALE: NTS
NOTE:
1. USE 8" COMPACTED GRADED AGGREGATE BASE FOR REPLACEMENT AT GRAVEL DRIVES.
2. FOR TYPE IV PAVEMENT REPLACEMENT, 2" LEVEL "A" SUPERPAVE SHALL EXTEND TO LIMITS AS DIRECTED BY THE CITY.
3. FOR ASPHALT COUNTY ROADS, ALL TYPE I PATCHES SHALL BE DYED BLACK TO MATCH EXISTING SURFACE, UNLESS OTHERWISE DIRECTED BY THE CITY.
4. FOR ALL ASPHALT ROADS, BITUMINOUS TACK SHALL BE PLACED BETWEEN ALL NEW AND EXISTING ASPHALT LAYERS, AND BITUMINOUS PRIMER SHALL BE PLACED BETWEEN ALL GAB AND NEW ASPHALT.
5. USE BITUMINOUS PRIMER ON ALL EXISTING ASPHALT EDGES.

PAVEMENT REPLACEMENT DETAILS

SCALE: NTS

CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENT

PAVEMENT REPLACEMENT DETAILS

DATE: JAN 2013  SD-G2
CONCRETE PIER DETAIL

NOTES:
1. FOOTING REINF. SAME AS VERT. REINF. EA. WAY TOP & BOTTOM

FOUNDATION IN EARTH

CONCRETE PIER DETAIL

SCALE: NTS

SD-G3A
CONCRETE PIER DETAIL

PIER SECTION

FOUNDATION IN ROCK

NOTES:
1. FOOTING REINF. SAME AS VERT. REINF. EA. WAY TOP & BOTTOM
2. WHEN BASE IS IN ROCK, OMIT FOOTING & GROUT VERT. CORNER BARS 8’ INTO ROCK
3. THE ROCK ANCHOR SHALL BE EMBEDDED INTO ROCK DEVELOP THE FULL CAPACITY OF THE REBAR.

CONCRETE PIER DETAIL

SCALE: NTS
PIPE ANCHORAGE DETAIL

- 4" x 3/8" Neoprene strap around pipe (360°)
- 4" x 3/8" (min.) SSSL strap (see pipe strap detail)
- See pipe strap detail for anchor bolts
- 1:2 grout after pipe is brought to line and grade
- 1/8" before nut is tightened
- 2" typical

PIPE ANCHORAGE DETAIL
SCALE: NTS

CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENT

PIPE ANCHORAGE DETAIL

DATE: JAN 2013    SD-G4
PIPE STRAP DETAIL

SCALE: NTS

(2) – 1 1/4" O (MIN.) x 1'-8" SSTL. ANCHOR BOLT WITH 4" HK, 3" PROJ. & W/3" SSTL. WASHERS (TYP. EA. SIDE)

1/8" BEFORE NUTS ARE TIGHTENED

TOP OF CONCRETE

4" x 3/8" (MIN.) STRAP

3/4" STIFFENER PLATES

4" x 3" 1/2" 12" LONG

4"

3 1/2"

5"

3 1/2"

2 3/4"
JACK AND BORE DETAIL

CASING SPACERS SIDE VIEW

CASING SPACERS END VIEW

NOTES:
1. STEEL CASING PIPE SHALL BE MANUFACTURED FROM STEEL CONFORMING TO ASTM A 139, GRADE B AND BE NEW AND UN USED
2. PUSH OR PULL THE WATERLINE THROUGH THE CASING SO THAT THE WATERLINE JOINTS ARE ALWAYS COMPRESSED.
3. CASING SPACERS SHALL BE MODEL CCS BY CASCADE WATERWORKS MANUFACTURING COMPANY OR APPROVED EQUIVALENT
4. JOINTS IN THE STEEL CASING SHALL BE FULLY WELDED.
5. SEE CITY OF GAINESVILLE STANDARD SPECIFICATIONS FOR FURTHER DETAIL

UNDER ROADS/HIGHWAYS

<table>
<thead>
<tr>
<th>PIPE SIZE (INCHES)</th>
<th>CASING SIZE (INCHES)</th>
<th>WALL THICKNESS (INCHES)</th>
</tr>
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<tbody>
<tr>
<td>6</td>
<td>12</td>
<td>0.250</td>
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<td>18</td>
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<td>30</td>
<td>0.312</td>
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<tr>
<td>20</td>
<td>30</td>
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<tr>
<td>24</td>
<td>36</td>
<td>0.375</td>
</tr>
<tr>
<td>30</td>
<td>42</td>
<td>0.375</td>
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<tr>
<td>36</td>
<td>42</td>
<td>0.500</td>
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UNDER RAILROADS

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<th>CASING SIZE (INCHES)</th>
<th>WALL THICKNESS (INCHES)</th>
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<tr>
<td>6</td>
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<td>32</td>
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<td>24</td>
<td>36</td>
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<tr>
<td>30</td>
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<td>0.625</td>
</tr>
<tr>
<td>36</td>
<td>42</td>
<td>0.625</td>
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</tbody>
</table>

NOTE:
- WRAP PIPE TO BREAK BONDS AT PLUGS.
- SHELL SHALL BE LINE WITH A RIBBED PVC SHEET OF 0.90 THICKNESS AND OVERLAP EDGES
- SPACER SHALL BE BOLT ON STYLE
- 7-304 STAINLESS STEEL, MINIMUM 14 GAUGE THICKNESS
- ATTACHED BY MIG WELDING
- RUNNERS MADE FROM UMWW POLYMER
- SPLAY SHEET OF 0.90 THICKNESS AND OVERLAP EDGES

SCALE: NTS

DATE: JAN 2013

SD - G6
NOTE:
TRACER WIRE SHALL RUN FROM BLOW-OFF PIPE TO FIRE HYDRANT AND BE ATTACHED AS DIRECTED BY INSPECTOR.

**BLOW-OFF DETAIL**

SCALE: NTS

CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENT

BLOW-OFF DETAIL

DATE: JAN 2013  SD - W1
FIRE HYDRANT SHALL BE PLACED AT THE LAST PROPERTY LINE BEFORE ENTERING RADIUS OF CUL-DE-SAC AT WHICH 40' STRAIGHT SECTION CAN BE MAINTAINED. (SEE TYP. F.H. DETAIL)

CONC. THRUST COLLAR
(SEE WATER MAIN TERMINATION DETAIL)

1 JOINT M.J. DIP

M.J. PLUG, TAPPED 2" WITH BRASS PACK JOINT COUPLING CONFORMING TO MOD. NO. C87-77 BY FORD CORP. (I.P. THREAD)

40' MIN. STRAIGHT SECTION OF 2" PVC PIPE

PLACE 2" BOV 3' PAST P_L (SEE BLOW-OFF DETAIL)

2" PVC – SDR 13.5 (NO FITTINGS ALLOWED)

NOTE:
1. DETAIL SHOWN IS FOR CUL-DE-SAC USE SAME METHODOLOGY AND MATERIALS FOR ALL 6" TO 2" REDUCTIONS.

STANDARD 6" TO 2" REDUCTION DETAIL

SCALE: NTS

CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENT

STANDARD 6" TO 2"
REDUCTION DETAIL

DATE: JAN 2013

SD - W2
CONC. PAD SEE VALVE BOX DETAIL

FINISHED GRADE

6" MIN.

VALVE BOX/EXTENSIONS AS REQUIRED

12" MIN.

GATE VALVE WITH RETAINER GLANDS

#57 STONE

GATE VALVE INSTALLATION DETAIL

SCALE: NTS

CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENT

GATE VALVE INSTALLATION DETAIL

DATE: JAN 2013  SD - W3
3-WAY FIRE HYDRANT WITH 4 1/2 VALVE OPENING. MUELLER A-421 M.J., AMERICAN-FLOW CONTROL MK-73-5 M.J., OR U.S. PIPE METERFLOW / M-03 M.J.

WATER MAIN, MJ TEE WITH 6" BRANCH WITH RETAINER GLAND

CONC. VALVE PAD

12" MIN.

6" MIN.

1'-6" MAX.

CONC. THRUST BLOCK

6" RESILIENT SEAT GATE VALVE W/ 2-6" RETAINER GLANDS AND VALVE BOX.

CONC. THRUST BLOCK

NOTE: CONTRACTOR SHALL NOT BLOCK WEEP HOLES WITH THRUST BLOCK

#57 STONE

EXISTING GROUND

1 CUBIC YARD #57 STONE

RETAILER GLANDS @ ALL JOINTS

NOTES:
IF SOIL CONDITIONS ARE SUCH THAT CONCRETE BLOCKING IS NOT EFFECTIVE, THE CONTRACTOR SHALL PROVIDE 2 - 3/4" HARNESS RODS BETWEEN THE TEE AND GATE VALVE AND BETWEEN THE GATE VALVE AND FIRE HYDRANT IN ADDITION TO RESTRAINT SHOWN. ANCHOR COUPLINGS IN LIEU OF RETAINER GLANDS AND HARNESS RODS ARE ACCEPTABLE.

TYPICAL FIRE HYDRANT DETAIL

SCALE: NTS

CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENT

TYPICAL FIRE HYDRANT DETAIL

DATE: JAN 2013

SD - W5
WATER MAIN TERMINATION DETAIL

<table>
<thead>
<tr>
<th>MAIN DIAMETER</th>
<th>CONC. COLLAR DIM.</th>
<th>STEEL REINFORCING</th>
</tr>
</thead>
<tbody>
<tr>
<td>20&quot;</td>
<td>1'-6&quot; 7'-8&quot; 7'-8&quot;</td>
<td>#9 @ 12&quot; O.C. E.W.E.F.</td>
</tr>
<tr>
<td>16&quot;</td>
<td>1'-3&quot; 6'-6&quot; 6'-6&quot;</td>
<td>#8 @ 12&quot; O.C. E.W.E.F.</td>
</tr>
<tr>
<td>12&quot;</td>
<td>1'-2&quot; 5'-3&quot; 5'-3&quot;</td>
<td>#7 @ 12&quot; O.C. E.W.E.F.</td>
</tr>
<tr>
<td>6&quot; OR 8&quot;</td>
<td>1'-0&quot; 4'-0&quot; 4'-0&quot;</td>
<td>#6 @ 12&quot; O.C. E.W.E.F.</td>
</tr>
</tbody>
</table>

TEST PRESSURE: 250 PSI
SOIL BEARING PRESSURE: 3000 PSF

NOTE: FOR USE WHERE FUTURE WATER MAIN EXTENSION IS REQUIRED.

WATER MAIN TERMINATION DETAIL

SCALE: NTS
VALVE BOX PAD DETAIL

NOTE:
1. IF PRECAST CONCRETE PAD IS FURNISHED, CONTRACTOR SHALL INSTALL APPROVED GROUT BETWEEN VALVE BOX AND PAD.

CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENT

DATE: JAN 2013  SD - W7

SCALE: NTS

4 - #4 REBARS
CONC. PAD (2' - 0" SQ.)
6" MIN.
3000 P.S.I. MIN. COMPRRESSIVE STRENGTH

C. I. VALVE BOX
NOTES:
1. VALVE EXTENSION STEM IS REQUIRED IF VALVE OPERATING NUT CANNOT BE OPERATED WITH A 5’ VALVE WRENCH.
2. EXTENSION STEM SHALL BRING THE OPERATING NUT TO WITHIN 12-INCHES OF GROUND SURFACE.

EXTENSION STEM DETAIL

SCALE: NTS

CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENT

EXTENSION STEM DETAIL

DATE: JAN 2013      SD - W8
WATER MAIN STREAM CROSSING DETAIL

CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENT

WATER MAIN STREAM CROSSING DETAIL

DATE: JAN 2013  SD - W9
MANUAL AIR RELEASE VALVE DETAIL

1" CURB STOP TURNED UP IN METER BOX

#57 STONE

1" CORPORATION STOP SCREWED INTO TAPPED WATER MAIN AT WATER MAIN TERMINATION

WATER MAIN

SCALE: NTS

CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENT

MANUAL AIR RELEASE VALVE

DATE: JAN 2013  SD - W10
TYPICAL FIRE SERVICE OPEN BOTTOM VAULT DETAIL

CONCRETE CAP BLOCK OR POURED CONCRETE FOOTING BEARING ON COMPACTED SOIL UNDER PIPE STAND (TYP.)

SECTION
N.T.S.

FOR PIPE SIZES 2 1/2" TO 10"

TEST PRESSURE 250 PSI SOIL
BEARING PRESSURE : 2000 PSF

<table>
<thead>
<tr>
<th>MAIN SIZE</th>
<th>DIMENSION</th>
<th>REINF.</th>
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<tbody>
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<td>2'-0&quot;</td>
<td>0'-8&quot;</td>
</tr>
<tr>
<td>3&quot;</td>
<td>2'-0&quot;</td>
<td>0'-8&quot;</td>
</tr>
<tr>
<td>4&quot;</td>
<td>2'-6&quot;</td>
<td>0'-10&quot;</td>
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<tr>
<td>6&quot;</td>
<td>4'-0&quot;</td>
<td>1'-0&quot;</td>
</tr>
<tr>
<td>8&quot;</td>
<td>4'-0&quot;</td>
<td>1'-0&quot;</td>
</tr>
<tr>
<td>10&quot;</td>
<td>5'-0&quot;</td>
<td>1'-2&quot;</td>
</tr>
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</table>

THRUST COLLAR DETAIL
N.T.S.

NOTES:
1. DESIGN SHOWN IS FOR NON-TRAFFIC AREAS. PROVIDE STRUCTURAL DESIGN ADEQUATE FOR PARTICULAR INSTALLATION.
2. SUBGRADE UNDER STRUCTURE AND BACKFILL AROUND STRUCTURE AND THRUST COLLARS SHALL BE COMPACTED TO 95% MAX. DRY DENSITY.
C.I. FRAME & COVER SET IN MORTAR
FLUSH IN PAVEMENT AREAS

SEE DETAIL SD-SS6 FOR LABTECH ADJUSTABLE RISER INFORMATION

M.H. STEPS @ 1'-0” O.C.

0.8 X PIPE I.D.
GROUT INVERT (1:12 SLOPE)

1'-0” MIN.

1'-0” MIN.

#57 STONE

UNDISTURBED EARTH

AT GRADE

ABOVE GRADE

SEE DETAIL SD-SS2 FOR FRAME AND COVER INFORMATION

C.I. FRAME & COVER CAST IN SECTION

ECCENTRIC CONE SECTION

18” MIN OUTSIDE OF PAVEMENT AREAS UNLESS OTHERWISE DIRECTED BY THE CITY.

NOTE:
RUBBER BOOTS REQUIRED AT ALL PIPE CONNECTIONS TO MANHOLE WITH THE EXCEPTION OF DROP CONNECTIONS.

PRECAST CONCRETE MANHOLE DETAIL
SCALE: NTS

CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENT

PRECAST CONCRETE MANHOLE DETAIL

DATE: JAN 2013
SD - SS1
NOTES:
1. COVER SHALL BE V-1418 (SHOWN), U.S. FOUNDRY 362, OR APPROVED EQUAL.
2. ALL DIMENSIONS ARE IN INCHES.

MANHOLE FRAME AND COVER DETAIL

SCALE: NTS
STANDARD MANHOLE INVERT DETAIL

TYPICAL PLANS

STANDARD MANHOLE INVERT DETAIL

<table>
<thead>
<tr>
<th>PIPE SIZE</th>
<th>ANGLE &quot;A&quot;</th>
<th>MH. DIA.</th>
<th>&quot;T&quot;</th>
<th>&quot;X&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot; TO 12&quot;</td>
<td>0° TO 90°</td>
<td>4'-0&quot;</td>
<td>5&quot;</td>
<td>0&quot;</td>
</tr>
<tr>
<td>15&quot; TO 18&quot;</td>
<td>60° TO 90°</td>
<td>5'-0&quot;</td>
<td>6&quot;</td>
<td>6&quot;</td>
</tr>
<tr>
<td>24&quot; TO 36&quot;</td>
<td>0° TO 90°</td>
<td>6'-0&quot;</td>
<td>7&quot;</td>
<td>0&quot;</td>
</tr>
</tbody>
</table>

NOTE:
1. MINIMUM QL RADIUS (R) OF M.H. INVERT = 1.5 x PIPE DIAMETER

SCHEDULE OF GOVERNING DIMENSIONS

TYPICAL PLANS

STANDARD MANHOLE INVERT DETAIL

SCALE: NTS
PRECAST CONCRETE MANHOLE RISER SECTION. SEE PLANS AND DETAIL SD-SS3 FOR MANHOLE SIZE.

EXISTING SEWER

1'-0" MIN

4"

2"

4000 PSI CONCRETE

#57 STONE

CUT OUT TO BE 2" LARGER THAN O.D. OF EXIST. PIPE. GROUT AROUND PIPE AT MANHOLE WALL WITH A NON-SHRINK GROUT.

NOTES:
BRICK OR CEMENT BLOCK SHALL BE USED AS SPACERS TO SUPPORT PRECAST STRUCTURE PRIOR TO POURING CONCRETE.
PRECAST MANHOLE BASE DETAIL

SCALE: NTS

CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENT

PRECAST MANHOLE BASE DETAIL

DATE: JAN 2013  SD - SS5
CUT EXISTING ASPH. & REPLACE WITH CONCRETE

BLACK LIQUID DYE MUST BE USED WHEN IN ASPHALT AREAS

EXISTING FRAME & COVER TO MATCH FINISHED GRADE

LABTECH ADJUSTABLE RISER OR EQUAL (1’-0” MAX), IF MORE THAN 1’-0” REQUIRED, REMOVE CONE & ADD PRECAST RISER SECTION AS REQUIRED

PROVIDE CONCRETE SLAB IN PAVED AREAS (SEE DETAIL ABOVE)

EXIST. CONE
CLEAN OUT AND SERVICE CONNECTION DETAIL

NOTE:
CLEANOUT WITH BRASS PLUG REQUIRED AT PROPERTY LINE, RIGHT OF WAY LINE, OR EASEMENT LINE AS APPLICABLE.

NOTE: ALL SERVICE LINES AND FITTINGS SHALL BE PVC.

CLEAN OUT AND SERVICE CONNECTION

SCALE: NTS

SD - SS8
NOTE: USE VENTED COVER AND BOLT TO FRAME.

FORCE MAIN CONNECTION DETAIL

SCALE: NTS
Run locator wire inside the marking system and attach to the terminal lug on the Locator Station.

AWG No.12 Solid, Bare, Copper Wire

Sanitary Sewer Force Main

Note: Wrap locate wire 3 times Completely around pipe and twist

Vulcan H-41 Marking System w/ Locator Station (Option C)

Existing Ground

12"

FORCE MAIN LOCATION POINT DETAIL

SCALE: NTS

SD SS10

CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENT

FORCE MAIN LOCATION

POINT

DATE: JAN 2013

SD - SS10
NOTES:
1. PUMP STATION DESIGN SHALL BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.
2. ELECTRICAL CONDUIT SHALL BE INSTALLED AS DIRECTED BY THE OWNER. INSTALLATION SHALL BE INSPECTED BY CITY PERSONNEL PRIOR TO POURING SLAB.
3. THE PUMP STATION PAD AND GENERATOR PAD SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MANUFACTURER’S SPECIFICATIONS, WITH APPROVAL FROM THE CITY.
STANDARD WETWELL DETAIL

SECTION A-A

DATE: JAN 2013
SD - SS11B

CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENT
STANDARD WETWELL DETAIL
(2 OF 2)

STANDARD WETWELL DETAIL

SCALE: NTS

24"X30" ACCESS HATCH
ONE FOOT #6 REBAR DOWELS, CORE AND EPOXY 18" O.C. TO PRECAST TOP
1' MIN
SPECTRA SHIELD LINER SHALL COAT ENTIRE INTERIOR SURFACE OF WETWELL MIN

#57 STONE

1/2" STAINLESS STEEL AIR BUBBLER PIPING, BRACED TO 1" STAINLESS UNISTRUT

1" STAINLESS UNISTRUT ATTACHED TO SUCTION PIPING WITH STAINLESS U-BOLTS AND NUTS

AIR BELL

STAINLESS STEEL ANCHORS ON 2' CENTERS AROUND BASE

3000 PSI CONCRETE PAD

#57 STONE

PAD ELEV: ____________
HIGH LEVEL ALARM ELEV: ____________
LAG PUMP ON ELEV: ____________
LEAD PUMP ON ELEV: ____________
PUMP OFF ELEV: ____________
OUTSIDE DROP MANHOLE DETAIL

CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENT

OUTSIDE DROP MANHOLE DETAIL

DATE: JAN 2013  SD - SS12
CROSS SECTION

PROFILE

SEWER STREAM CROSSING DETAIL

SCALE: NTS

CITY OF GAINESVILLE PUBLIC UTILITIES DEPARTMENT

SEWER STREAM CROSSING DETAIL

DATE: JAN 2013  SD - SS13
- MINIMUM CAPACITY OF GREASE TRAP IS 1500 GALLONS.
- DESIGN SHOWN IS FOR NON–TRAFFIC AREAS. PROVIDE STRUCTURAL DESIGN ADEQUATE FOR PARTICULAR INSTALLATION.
FOR TRAFFIC AREAS USE
STANDARD C.I. RING &
COVER EQUAL TO VULCAN
1480–1 OR U.S. FOUNDRY
362

FOR NON-TRAFFIC AREAS USE
LIGHT DUTY C.I. RINGS &
COVER EQUIPPED W/4” DROP
HANDLE. RING & COVER
SHALL BE EQUAL TO U.S.
FOUNDRY 360–K.

6” TO 8” FINISHED
GRADE (NON TRAFFIC)

ECCENTRIC CONE SECTION

M.H. STEPS
@1’–0” O.C.
DO NOT ORIENT
DIRECTLY OVER
INFL. PIPE

STANDARD 4’
MIN. DIA. MANHOLE SEE
“PRECAST CONCRETE
MANHOLE DETAIL” FOR
ADDITIONAL
REQUIREMENTS

6” PROTRUSION
6” MIN. 2’–0” MAX.

PRECAST OR CORED
OPENING W/RUBBER BOOT
@ ALL PIPE CONNECTIONS
TYP.

SLOPE INVERT TO DRAIN

CRUSHED STONE

EFFLUENT PIPE
1’–0” MIN.

INFLUENT PIPE

12” TYP.

NOTES:
1. PROVIDE FREEZE– PROOF HYDRANT EQUIPPED
W/ANTI–SIPHON TYPE BACFLOW PREVENTER
WITHIN 6’ OF MANHOLE
2. PROVIDE 120V, 20 AMP DUPLEX RECEPTACLE
WITHIN 6’ OF MANHOLE
3. PROVIDE DUSK TO DAWN POLE MOUNTED
OVERHEAD. LIGHT DIRECTLY OVER MANHOLE
4. PROVIDE 8’x8’x6’ HIGH CHAIN LINK FENCE
WITH 3’–0” GATE.
NOTE:
1. WHERE DEPTH OF STRUCTURES EXCEEDS 4'-0", MEET THE STRUCTURAL REQUIREMENTS OF SAMPLE STATION MANHOLE INDUSTRIAL INSTALLATION.