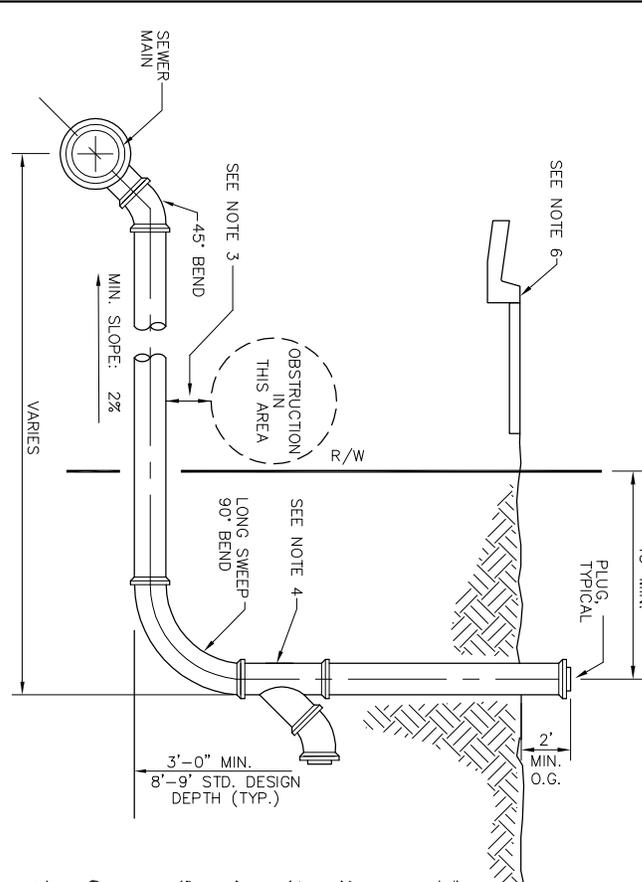
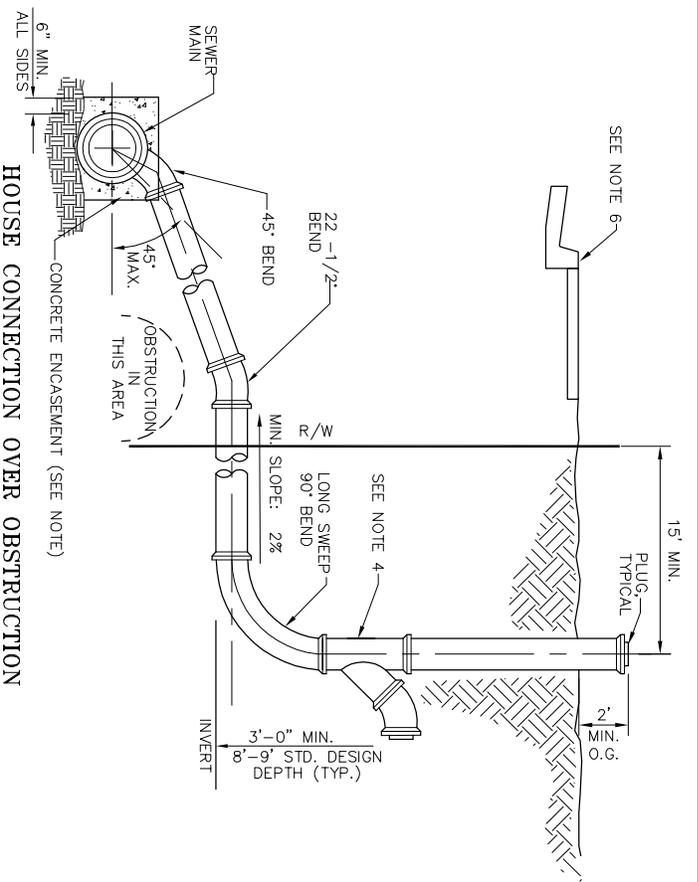


STANDARD HOUSE CONNECTION
N.T.S.

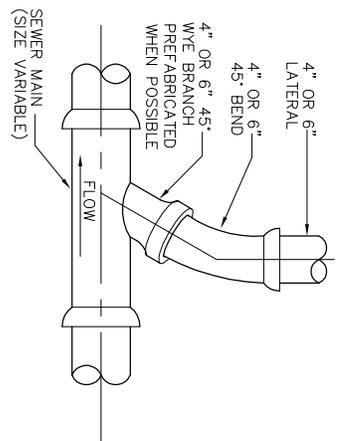


HOUSE CONNECTION UNDER OBSTRUCTION
(UPON APPROVAL ONLY)
N.T.S.



HOUSE CONNECTION OVER OBSTRUCTION
(UPON APPROVAL ONLY)
N.T.S.

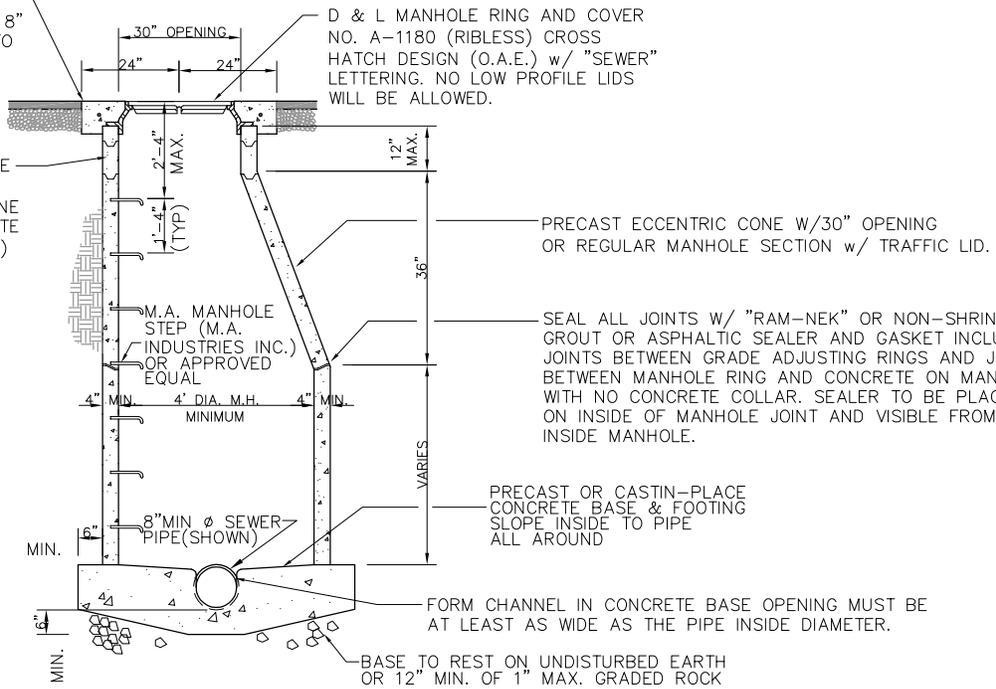
- NOTES:**
1. APPROVED INSERTABLE TEES w/ RUBBER GROMMET SEAL OR PVC SADDLE WYES GLUED & STRAPPED TO EXISTING PVC MAINS ALLOWED. SADDLE WYES CONNECTING TO VITRIFIED CLAY SEWER PIPE MAIN MUST BE ENCASED IN CONCRETE AS SHOWN.
 2. ALL SEWER LATERALS TO BE ABS OR PVC 4" OR 6" DIAMETER MATERIAL SDR-35.
 3. WHERE CLEARANCE BETWEEN BOTTOM OF OBSTRUCTION AND TOP OF LATERAL IS LESS THAN 12" ENCASE LATERAL IN CONCRETE.
 4. 4" OR 6" PVC WYE INSTALLED BY BUILDING PLUMBER AT REQUIRED ELEVATIONS.
 5. SEWER LATERALS SHALL NORMALLY BE PLACED 10 FEET INSIDE THE SIDE LOT LINE ON THE SIDE WHERE THE SEWER MAIN IS THE LOWEST. ON TWIN HOME LOTS SEWER LATERAL SHALL BE PLACED 1' ON EACH SIDE OF THE LINE DIVIDING THE HOMES.
 6. 4" HIGH LETTER "S" ETCHED IN CONCRETE CURB ABOVE SEWER LATERAL.
 7. NO SEWER LATERALS SHALL BE CONNECTED DIRECTLY TO SEWER MANHOLES.
 8. WHEN A NEW SEWER LATERAL REPLACES AN EXISTING SEWER LATERAL AT A DIFFERENT LOCATION ON THE SEWER MAIN, THE EXISTING SEWER LATERAL SHALL BE CAPPED AT THE SEWER MAIN.



STANDARD WYE
N.T.S.

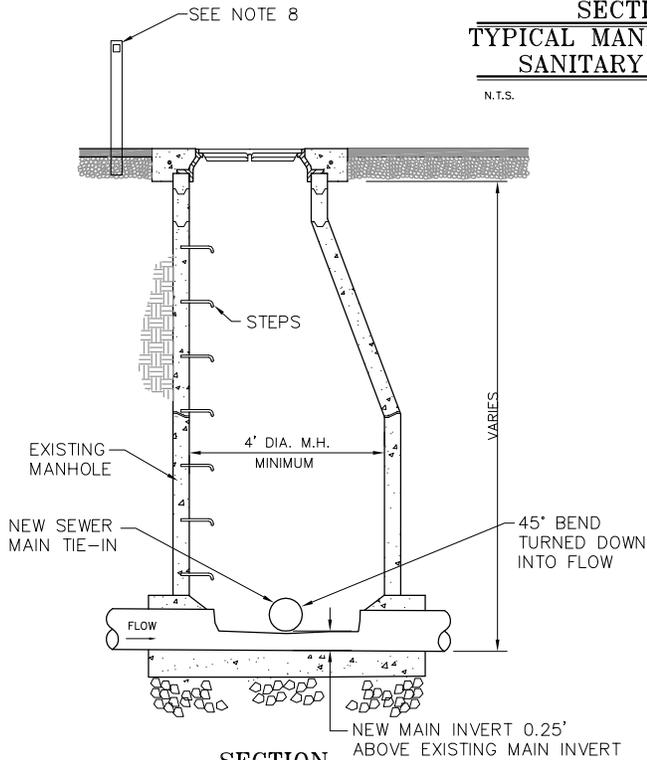
4' Ø CONCRETE COLLAR w/ (4) #4 BARS AND REINF. FIBERS, CONCRETE COLLAR THICKNESS 8" MINIMUM BUT THICK ENOUGH TO ENCASE GRADE RINGS (SEE NOTES 1, 2 & 7)

PRECAST CONCRETE GRADE RINGS OR 30" I.D. CORRUGATED POLYETHYLENE PIPE ENCASED IN CONCRETE COLLAR (12" MAX. HEIGHT)



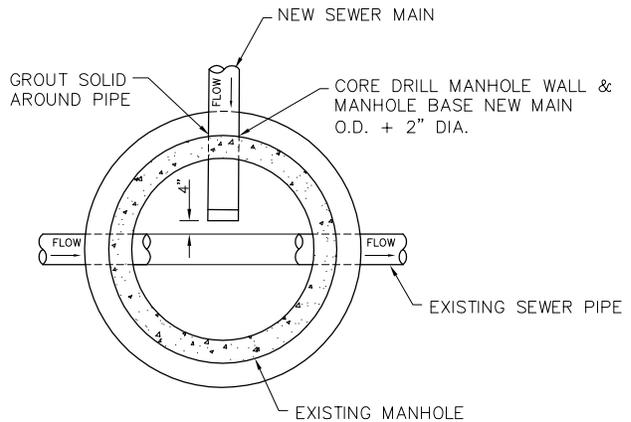
SECTION
TYPICAL MANHOLE FOR
SANITARY SEWER

N.T.S.



SECTION

N.T.S.



PLAN

N.T.S.

EXISTING SEWER
MANHOLE CONNECTION

N.T.S.

NOTES:

- MANHOLES IN ROADWAYS REQUIRE CONC. COLLAR. TOP OF MANHOLE CONE IN UNIMPROVED AREAS SHALL BE SET 6 TO 12 INCHES ABOVE FINISH GRADE WITH NO GRADE RINGS. (NO CONC. COLLAR REQ'D)
- MANHOLE LID, RING AND CONCRETE COLLAR TO BE CENTERED ON MANHOLE OPENING AND SET 1/4 INCH BELOW TOP OF ASPHALT.
- 5' DIA. MANHOLES REQUIRED FOR ALL SEWER LINES OVER 15" DIA, OVER 12' DEEP MANHOLE OR 3 OR MORE IN COMING LINES. NO SEWER LATERALS SHALL BE INSTALLED IN MANHOLES.
- OUTLET PIPE INVERT TO BE 0.05 FEET (MINIMUM) LOWER THAN INLET PIPES IN ALL MANHOLES.
- NO WOOD OR PVC SHIMS WILL BE ALLOWED BETWEEN LID RING AND ADJUSTING RINGS OR MANHOLE.
- IF TRAFFIC LID IS USED, CONCRETE COLLAR CAN BE ELIMINATED IF TRAFFIC LID IS < 6" BELOW FINISHED ROAD GRADE.
- MANHOLES IN UNIMPROVED AREAS REQUIRE AN ORANGE CARSONITE CRM 66 INCH UTILITY MARKER BE PLACED WITHIN 4 FEET OF THE MANHOLE WITH A STICKER INDICATING SEWER MANHOLE.
- DROP MANHOLE WITH PRESSURE LINE OR GRAVITY LINES 15 INCH DIAMETER AND ABOVE SHALL BE CORROSION RESISTANT, ARMOR ROCK O.A.E.

SHEET NO.

S2

FILE: S02

NEW SEWER MANHOLE
& EXISTING CONNECTION

CEDAR CITY
10 NORTH MAIN STREET
CEDAR CITY, UTAH 84720
PH. (435) 566-2963

SCALE:

N.T.S.

DATE:

8/2016

DRAWN:

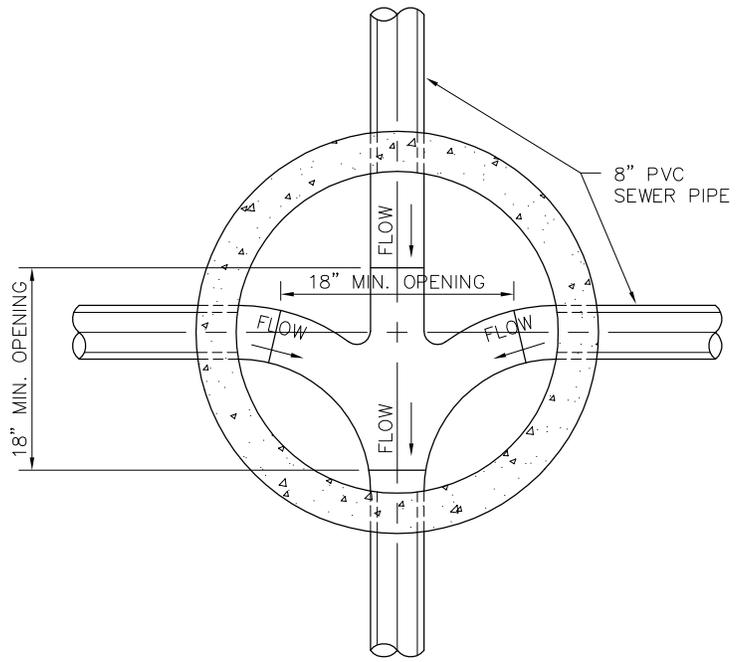
T.B.M.

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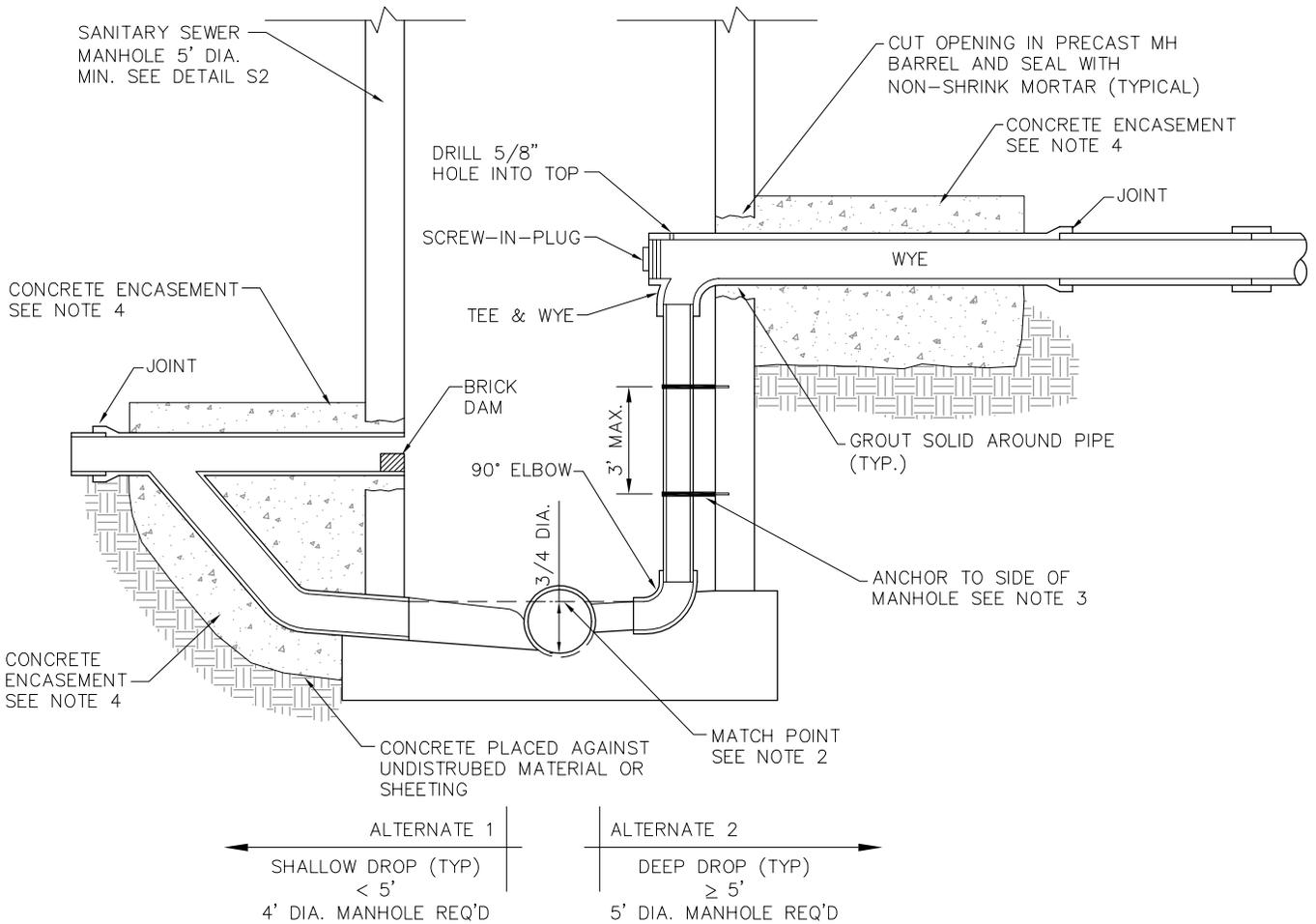
K.C.W.

NOTES:

1. PIPE DROPS: ONLY ONE DROP PIPE IS ALLOWED INSIDE THE MANHOLE. SIZE THE DROP PIPE TO BE SAME DIAMETER AS SEWER PIPE DISCHARGING INTO MANHOLE.
2. MATCH POINT: MATCH THE 3/4 DIAMETER POINTS OF THE PIPES.
3. ANCHOR: IF THE DROP IS MORE THAN 18 INCHES, ANCHOR THE RISER TO THE WALL EVERY 36 INCHES. USE CONCRETE ANCHORS 1-1/2" THREADED RODS, AWI PIPE HANGERS w/ 1/2" COUPLING & POLY PROYLENE COLLAR. ALL STEEL SHALL BE 304 STAINLESS.
4. CONCRETE: CLASS C PER TABLE 4.10. EXTEND ENCASEMENT TO FIRST JOINT BEYOND EXCAVATION FOR DROP CONNECTION.



PLAN



SECTION

SHEET NO.
S3
FILE: S03

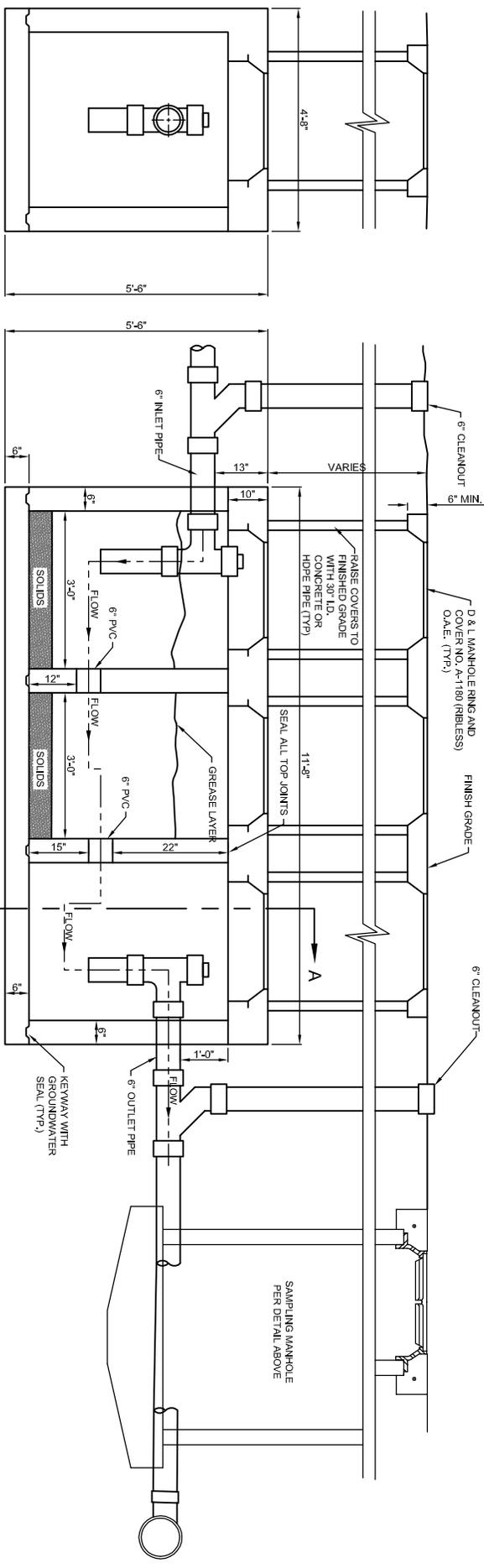
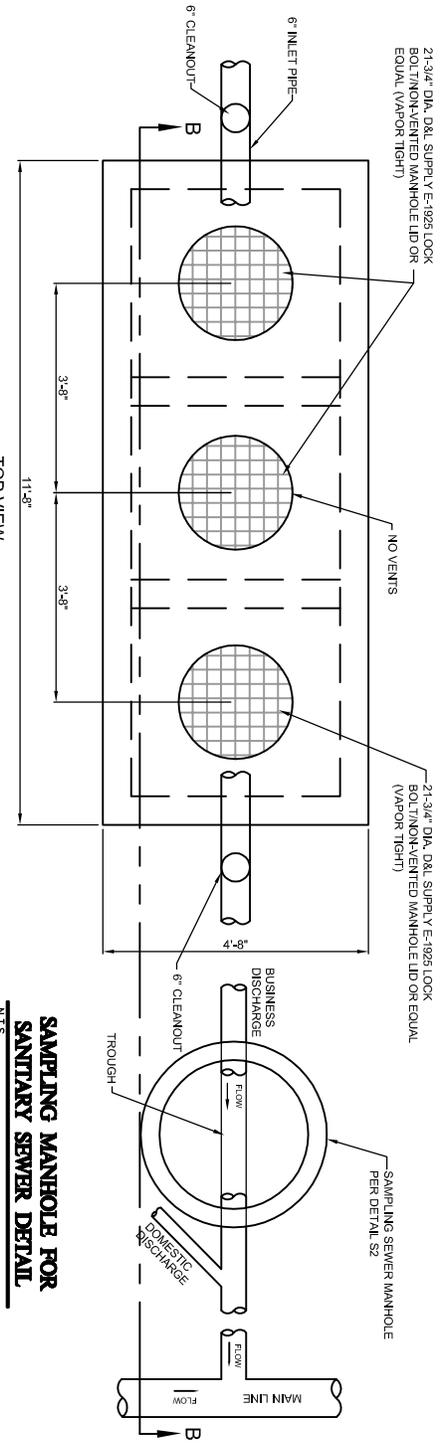
DROP MANHOLE

CEDAR CITY
10 NORTH MAIN STREET
CEDAR CITY, UTAH 84720
PH. (435) 586-2963

SCALE: N.T.S.	DATE: 8/2016
DRAWN: T.B.M.	CHECKED: K.C.W.

- SAMPLING MANHOLE NOTES:**
- MANHOLES IN ROADWAYS OR PARKING LOTS REQUIRE CONC. COLLAR, MANHOLES IN UNIMPROVED AREAS SHALL BE SET 6 INCHES ABOVE FINISH GRADE. (NO CONC. COLLAR REQUIRED)
 - MANHOLE LID, RING AND CONCRETE COLLAR TO BE SET 1/4 INCH BELOW TOP OF ASPHALT.

- INTERCEPTOR NOTES:**
- MATERIAL SPECS:
 - CONCRETE PORTLAND CEMENT TYPE II, MINIMUM COMPRESSIVE STRENGTH=4000 PSI
 - ASTM A815
 - REINFORCING BAR INTERMEDIATE GRADE 40 A185
 - UNIT COATED OUTSIDE WITH AN APPROVED PROTECTIVE COATING.
 - ALL DIMENSIONS ± NOT TO BE USED FOR CONSTRUCTION PURPOSES UNLESS CERTIFIED, PRECAST UNIT TO BE PLACED ON NATURAL SOIL.
 - STANDARD GROUND WATER SEAL, BUTYL ROPE MASTIC OR CEMENT MORTAR.
 - INTERCEPTOR MANHOLE COVERS TO BE SET FLUSH WITH ASPHALT OR CONCRETE PARKING LOT GRADES OR 6" MIN ABOVE GRADE IN UNFINISHED OR LANDSCAPE AREAS.



SECTION A-A VIEW

SECTION B-B VIEW

CONTACT CEDAR CITY WASTEWATER DEPARTMENT FOR FURTHER INFORMATION

**GREASE, OIL, & SAND INTERCEPTOR
DETAIL**

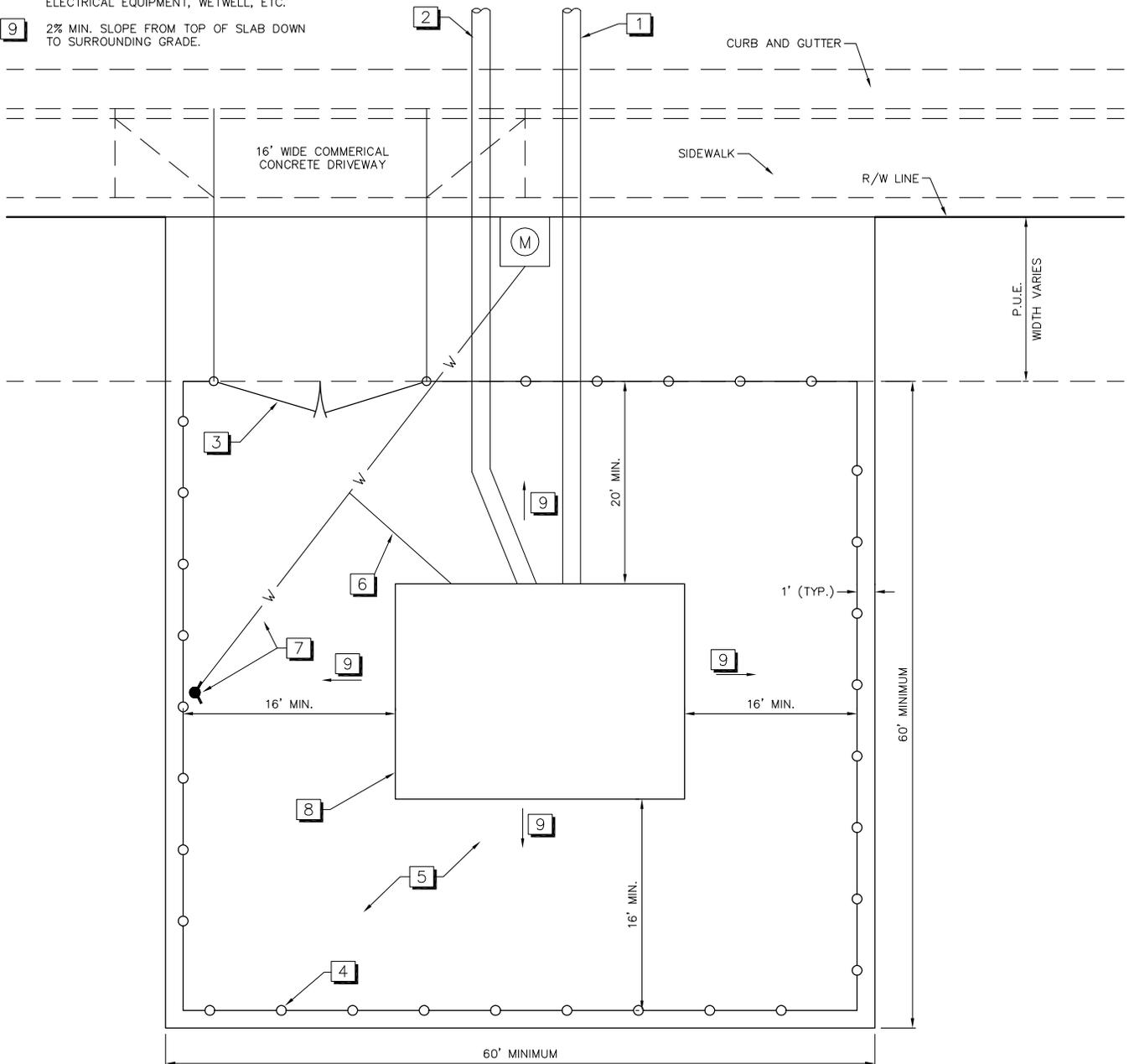
N.T.S.

CONSTRUCTION NOTES:

- 1 NEW PVC SDR-35 GRAVITY SEWER LINE GOING INTO LIFT STATION. (LINE SIZE PER PLANS)
- 2 NEW PVC C900 PRESSURE SEWER PUMPBACK LINE GOING FROM LIFT STATION. (LINE SIZE PER PLANS)
- 3 INSTALL 16' WIDE x 6' HIGH DOUBLE SWING GATE WITH 3 STRANDS OF BARBED WIRE PER UDOT STANDARD DRAWING FG-6.
- 4 INSTALL 6' TALL CHAIN LINK FENCE WITH 3 STRANDS OF BARBED WIRE ON ARMS PER UDOT STANDARD DRAWING FG-6.
- 5 INSTALL 3" MINUS DRAIN ROCK 6" THICK IN THE ENTIRE FENCED IN AREA.
- 6 INSTALL 1" COPPER WATER LINE INTO BUILDING FOR SELF-PRIMING LIFT STATION.
- 7 INSTALL NEW FROST FREE HYDRANT AND DRAIN ROCK INCLUDING 1" COPPER WATER LINE FROM METER BOX.
- 8 LIFT STATION ENVELOPE FOR ALL BUILDINGS, CONCRETE, UTILITY METERS, ELECTRICAL EQUIPMENT, WETWELL, ETC.
- 9 2% MIN. SLOPE FROM TOP OF SLAB DOWN TO SURROUNDING GRADE.

NOTES:

1. THIS DETAIL DRAWING DOES NOT TAKE THE PLACE OF STAMPED ENGINEERING DRAWINGS FOR THE LIFT STATION SITE PLAN. THE DIMENSIONS SHOWN ON THIS DRAWING ARE PROVIDED ONLY TO SHOW THE MINIMUM CLEARANCES THAT MUST BE MET.
2. THE FOLLOWING UTILITIES MUST BE INSTALLED TO THE LIFT STATION SITE:
CULINARY WATER
TELEPHONE
POWER
GAS
3. AUTO-DIALER IS REQUIRED FOR REMOTE MONITORING OF THE LIFT STATION.



PLAN VIEW

N.T.S.

SHEET NO.
S7
FILE: S07

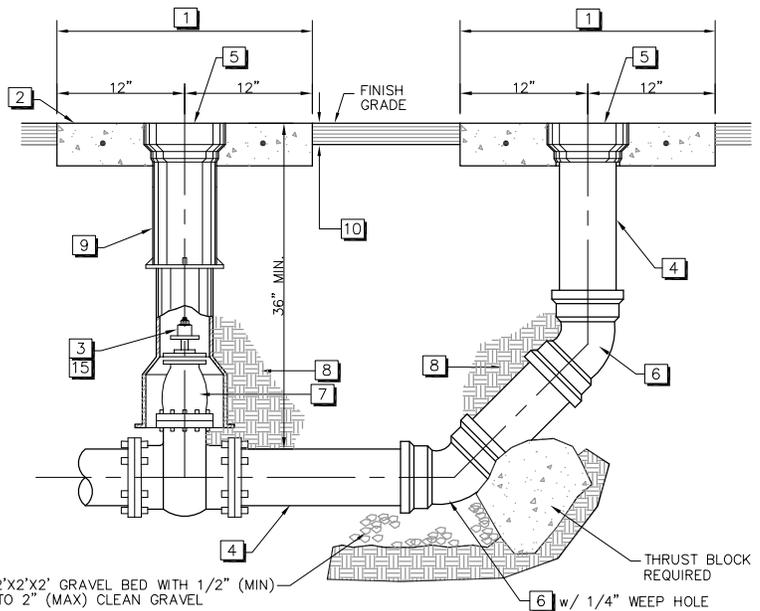
**SEWER LIFT STATION
SITE PLAN**

CEDAR CITY
10 NORTH MAIN STREET
CEDAR CITY, UTAH 84720
PH. (435) 586-2968

SCALE: N.T.S.	DATE: 8/2016
DRAWN: T.B.M.	CHECKED: K.C.W.

CONSTRUCTION NOTES:

- 1 24" SQUARE CONCRETE COLLAR 8" THICK.
- 2 TOP OF VALVE BOX AND CONCRETE COLLAR TO BE 1/4" BELOW FINAL STREET GRADE. REINFORCEMENT #4 BAR 16" \square w/ FIBERS (TYP.)
- 3 IF TOP OF VALVE NUT IS MORE THAN 4' DEEP THEN VALVE STEM EXTENSION IS REQUIRED PER DETAIL.
- 4 CLEAN OUT PIPE SIZE & MATERIAL SHALL BE THE SAME AS THE PRESSURE SEWER MAIN.
- 5 PIPE METAL CAP w/ LETTERS "SEWER"
- 6 45° BEND REQ'D w/ RESTRAINT JOINTS (MEGALUG O.A.E.)
- 7 GATE VALVE (TYP.) w/ RESTRAINT JOINTS (MEGALUG O.A.E.)
- 8 TRENCH BACKFILL
- 9 CAST IRON SCREW TYPE VALVE BOX
- 10 PAVEMENT STRUCTURE AS SPECIFIED BY THE DESIGN AGENCY
- 11 TRACE-O-FLEX MARKER w/ TERMINAL POINTS BY CARSONITE - (ORANGE COLOR)
- 12 12 GA. INSULATED COPPER LOCATE WIRE DUCT TAPED TO TOP OF PIPE AT 10' INTERVALS
- 13 PRESSURE SEWER MAIN.
- 14 SCH. 40 PVC PIPE (SIZE VARIES)
- 15 GATE VALVE w/ 2" VALVE WRENCH NUT
- 16 PVC CAP
- 17 TAPPING SADDLE PER SPECS.
- 18 INLINE ISOLATION VALVE (SEE NOTES)
- 19 CHECK VALVE BY CUSTOMER AT TIME OF CONNECTION.

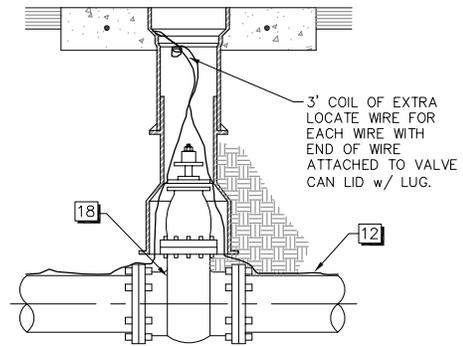
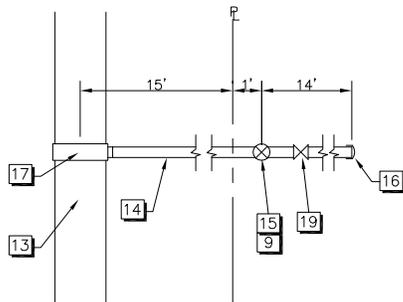


**PRESSURE SEWER
CLEAN-OUT DETAIL**

N.T.S.

PRESSURE SEWER LATERAL

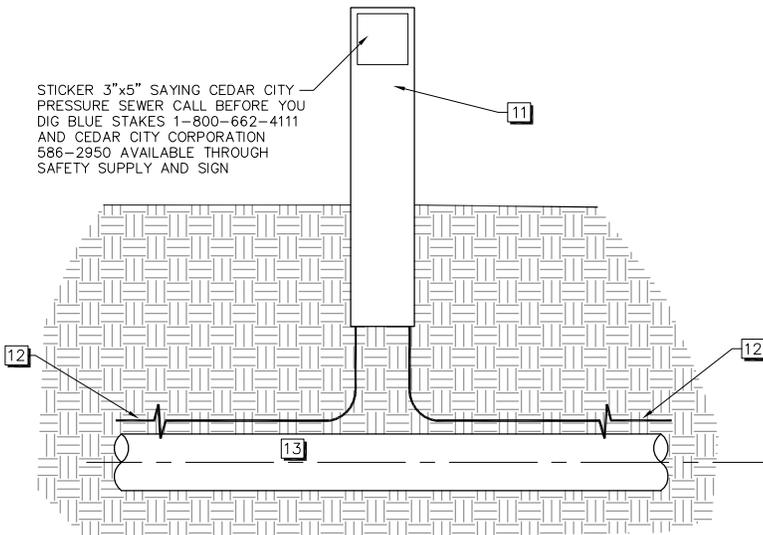
N.T.S.



**PAVED AREA LOCATE
WIRE TERMINATION**

N.T.S.

STICKER 3"x5" SAYING CEDAR CITY
PRESSURE SEWER CALL BEFORE YOU
DIG BLUE STAKES 1-800-662-4111
AND CEDAR CITY CORPORATION
586-2950 AVAILABLE THROUGH
SAFETY SUPPLY AND SIGN



**UNPAVED AREA
LOCATOR POST DETAIL**

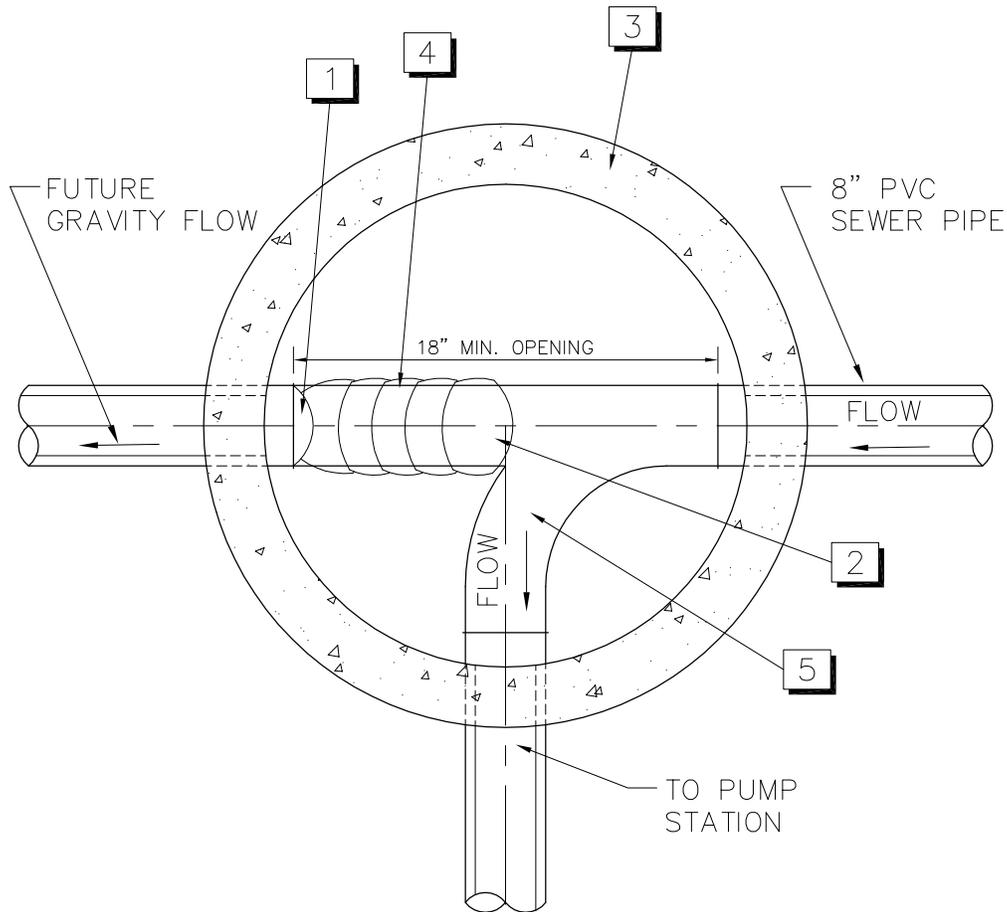
N.T.S.

NOTES:

- 1. LOCATOR POSTS TO BE PLACED AT 1000' MAX. SPACING NEXT TO IN-LINE VALVES AND BENDS ON PRESSURE SEWER MAIN.
- 2. PRESSURE SEWER CLEAN-OUT TO BE PLACED AT 2000' MAX. SPACING NEXT TO END OF PIPES OR IN-LINE VALVES.
- 3. IN-LINE VALVES TO BE PLACED EVERY 2000' MAX. ON PRESSURE SEWER LINES.
- 4. IN PAVED AREAS LOCATE WIRE SHALL BE TERMINATED IN THE VALVE CANS OF THE IN-LINE VALVES PER DETAIL.

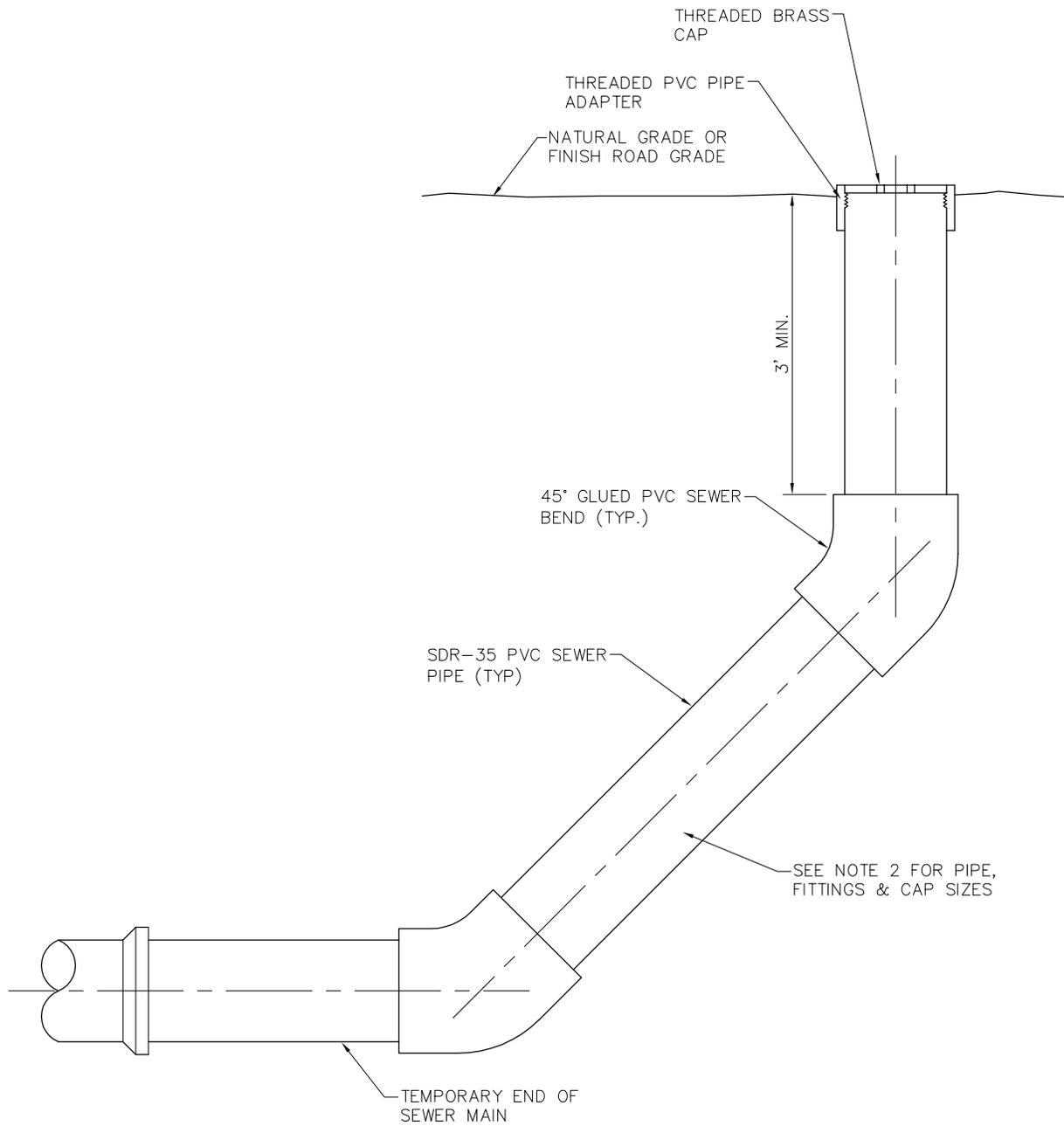
CONSTRUCTION NOTES:

- 1** PETERSON SERIES 142 HAND TIGHTENING TEST PLUG TO BE REMOVED WHEN PUMP STATION IS ELIMINATED.
- 2** FLOW CHANNEL
- 3** 4' DIA. SEWER MANHOLE
- 4** BURLAP SAND BAGS – TO BE REMOVED WHEN PUMP STATION IS ELIMINATED
- 5** FLOW CHANNEL TO PUMP STATION TO BE FILLED WITH GROUT WHEN PUMP STATION IS ELIMINATED.



SEWER LIFT STATION MANHOLE





NOTE:

1. PERMENT ENDS OF SEWER MAIN SHALL HAVE A SEWER MANHOLE PER DETAIL S-2.
2. THE DIAMETER OF ALL PIPE, FITTINGS AND CAP OF THE TEMPORARY SEWER CLEAN-OUT SHALL BE THE SAME DIAMETER OF THE SEWER MAIN LINE.

**TEMPORARY SERWER MAIN CLEAN-OUT
DETAIL**

N.T.S.

SHEET NO.
S10
FILE: S10

TEMPORARY SEWER MAIN CLEAN-OUT

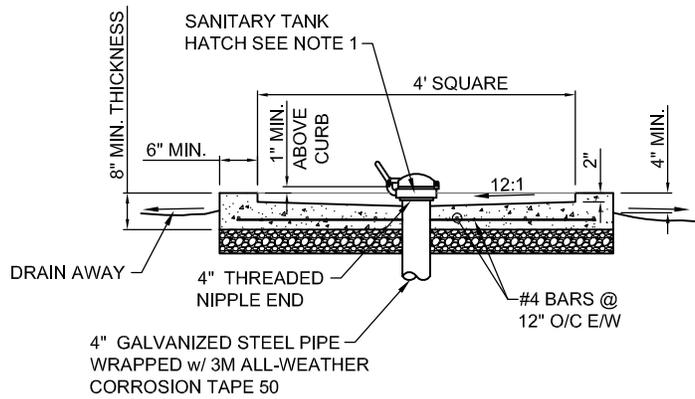
CEDAR CITY
10 NORTH MAIN STREET
CEDAR CITY, UTAH 84720
PH. (435) 588-2983

SCALE:
N.T.S.
DRAWN:
T.B.M.

DATE:
8/2016
CHECKED:
K.C.W.

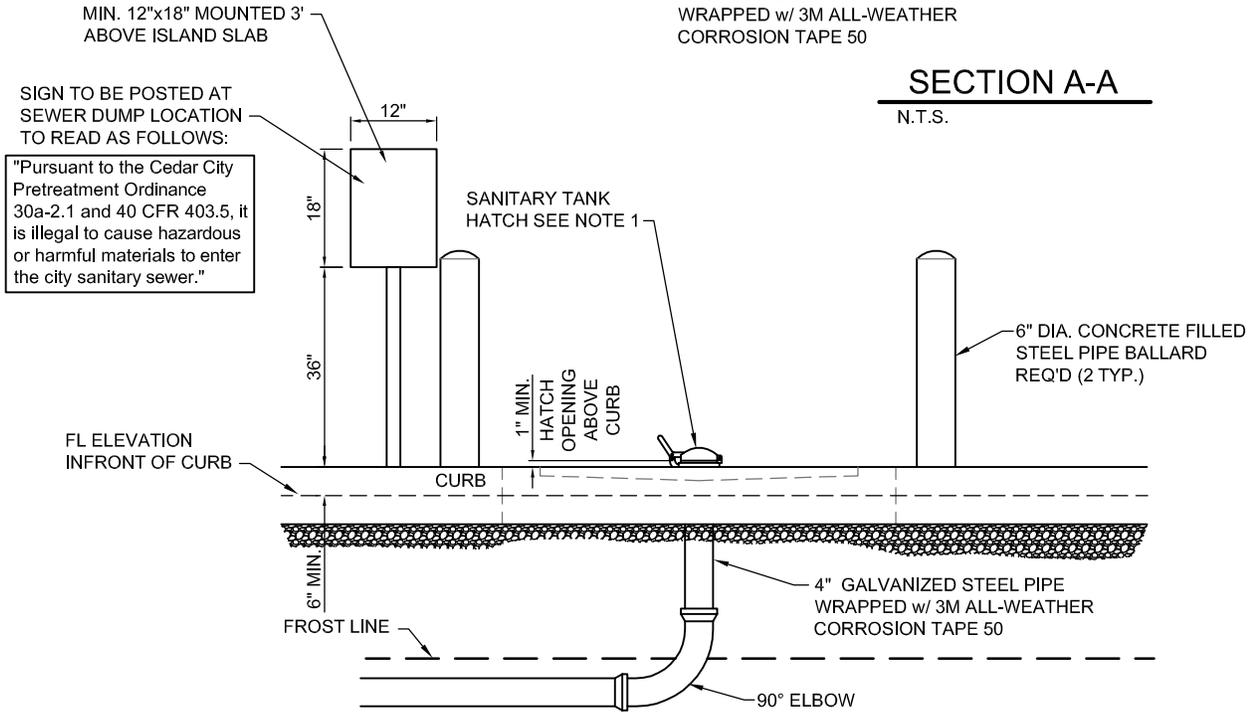
NOTES:

1. SANITARY TANK HATCH SHALL BE OPW 269 4" DIA. SELF-CLOSING, FOOT OPERATIONAL AND/OR SPRING/WEIGHTED COVER. OR APPROVED EQUAL. OPENING SHALL BE MIN. 1" ABOVE HIGHEST POINT ON CURB.
2. IF WATER SERVICE IS TO BE PROVIDED ALL STEPS SHALL BE TAKEN TO FOLLOW STATE & FEDERAL LAWS FOR PROPER USE OF CULINARY WATER AROUND OPEN WASTE RV DUMP STATIONS.



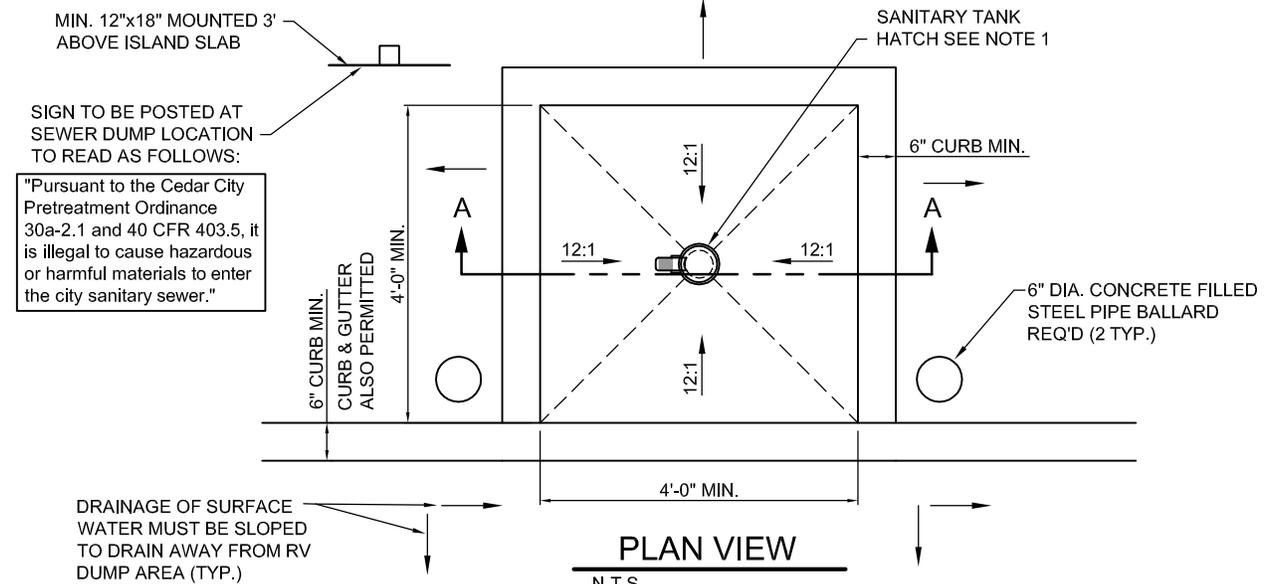
SECTION A-A

N.T.S.



PROFILE VIEW

N.T.S.



PLAN VIEW

N.T.S.

RV DUMP STATION DETAIL

N.T.S.

SHEET NO.
S11
FILE: S11

RV DUMP STATION DETAIL

CEDAR CITY
10 NORTH MAIN STREET
CEDAR CITY, UTAH 84720
PH. (435) 588-2983

SCALE: N.T.S.	DATE: 8/2016
DRAWN: T.B.M.	CHECKED: K.C.W.