

BEAR RIVER CITY PUBLIC WORKS CONSTRUCTION STANDARDS

Standard Drawing Index

- SHEET 1 - 99' TYPICAL STREET SECTION - RURAL CLASSIFICATION
- SHEET 2 - TYPICAL STREET SECTION - URBAN CLASSIFICATION
- SHEET 3 - STREET ADDRESS/STOP SIGN & POST DETAIL
- SHEET 4 - TYPICAL DRIVEWAY DETAIL - URBAN CLASSIFICATION ONLY
- SHEET 5 - TYPICAL WHEEL CHAIR RAMP - URBAN CLASSIFICATION ONLY
- SHEET 6 - TYPICAL STREET INTERSECTION - URBAN CLASSIFICATION ONLY
- SHEET 7 - TYPICAL STREET INTERSECTION - RURAL CLASSIFICATION
- SHEET 8 - TYPICAL CUL-DE-SAC DETAIL - URBAN CLASSIFICATION ONLY
- SHEET 9 - TYPICAL CUL-DE-SAC DETAIL - RURAL CLASSIFICATION
- SHEET 10 - SANTARY SEWER SYSTEM DETAILS
- SHEET 11 - SANTARY SEWER MANHOLE DETAILS
- SHEET 12 - STORM DRAIN DETAILS
- SHEET 13 - DRIVEWAY CULVERT DETAILS

RECOMMENDED:

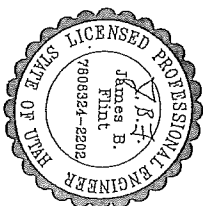
Jim Pint, P.E. _____ Date _____
Jim Pint _____
 Bear River City Planning Commission Chairman Date 2/6/17

APPROVAL:

Bruce Anderson _____
 Bruce Anderson - Bear River City Mayor Date 10/30/2017
Sue Ann Holmgren _____
 Sue Ann Holmgren - Bear River City Clerk Date 11-17-17

PUBLIC WORKS CONSTRUCTION SPECIFICATIONS:

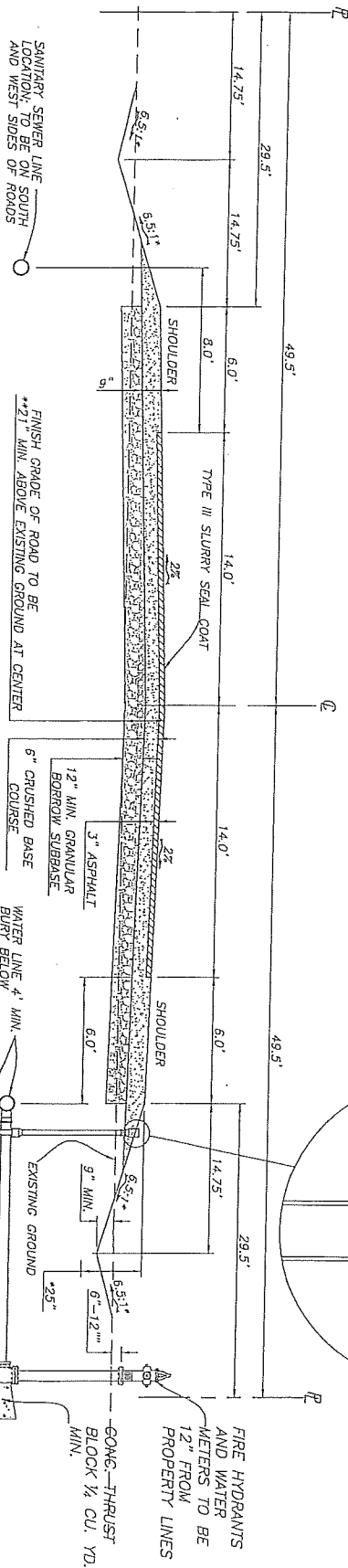
WHERE APPLICABLE, AND UNLESS OTHERWISE SPECIFIED, CONSTRUCTION OF PUBLIC WORKS, FACILITIES AND INFRASTRUCTURE SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN PUBLICS ASSOCIATION MANUAL OF STANDARD SPECIFICATIONS WHICH ARE ADOPTED BY REFERENCE AS A COMPANION DOCUMENT TO THESE DRAWINGS. RESOLUTION OF ANY INCONSISTENCIES BETWEEN THESE DRAWINGS AND THE ADOPTED SPECIFICATIONS WILL BE MADE BY THE CITY ENGINEER.



Revised 11-17-16

HANSEN & ASSOCIATES, INC.
 Consulting Engineers and Land Surveyors
 538 North Main Brigham City, Utah 84302
 723-1481 Ogden 393-4902 Layton 722-3272

* ROADS AND ROADSIDE DRAINAGE SWALES SHALL BE DESIGNED TO SLOPE AT A MINIMUM OF 0.5% TOWARD DRAINAGE OUTLET. ADJACENT LOT OWNERS TO MAINTAIN DRAINAGE SWALES WITH ROCK LINING, OF THE SIZE AND TYPE APPROVED BEAR RIVER CITY, OR WITH LANDSCAPE SOD, OR A COMBINATION THEREOF, FROM THE PROPERTY LINE TO THE EDGE OF THE GRAVEL SHOULDER. LANDSCAPE Boulders ARE DISALLOWED. GEOMETRY OF DRAINAGE SWALES SHALL BE PRESERVED BY LOT OWNERS AS SHOWN HEREON. ANY MODIFICATION OF SWALE GEOMETRY OR FILLING IN OF SWALES IS PROHIBITED WITHOUT BEAR RIVER CITY PERMISSION. ROCK LINING OR SOD LANDSCAPING OF THE DRAINAGE SWALES SHALL BE COMPLETED WITHIN ONE YEAR FROM THE DATE OF THE OCCUPANCY PERMIT. BEAR RIVER CITY INSPECTION DEPARTMENT SHALL REQUIRE A DEPOSIT WHEN BUILDING PERMITS ARE ISSUED FOR DWELLINGS TO GUARANTEE COMPLETION OF THE CULVERTS & SWALES BY THE LOT OWNER.

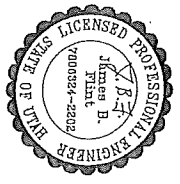
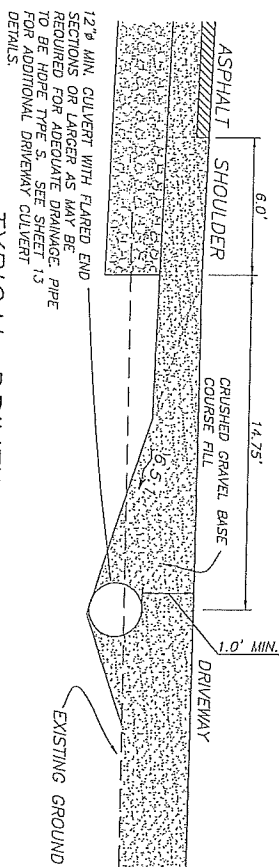


TYPICAL 99' R.O.W. STREET SECTION

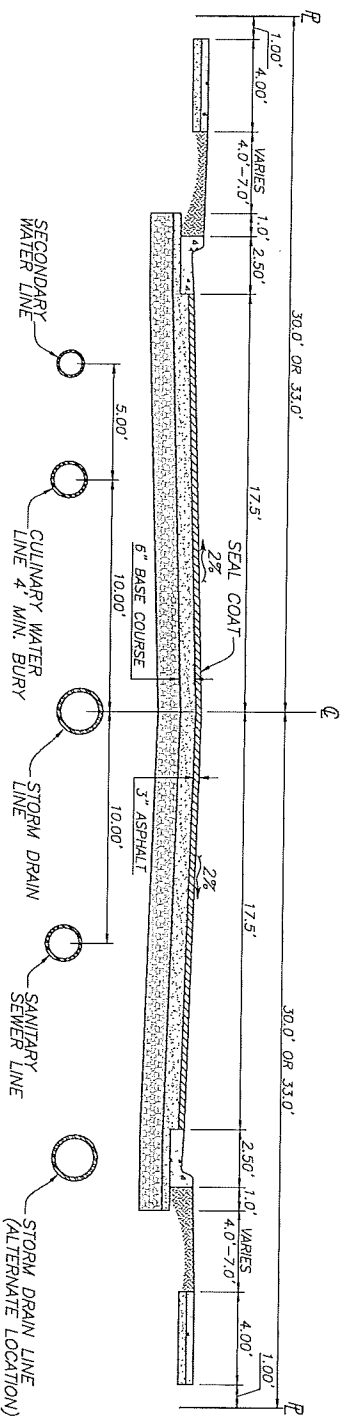
- NOTE:
- THIS DRAWING IS NOT TO VERTICAL SCALE. VERTICAL FEATURES ARE EXAGGERATED FOR DRAINING CLARITY.
 - ALL WATER VALVES ARE TO BE FINISHED WITH CONCRETE COLLARS AT THE SURFACE.
 - THE CRUSHED GRAVEL, GRANULAR BORROW SUBBASE, AND ASPHALT THICKNESSES SHOWN ARE CONSIDERED AS CITY MINIMUM STANDARDS AND MAY BE INCREASED AS DETERMINED BY THE CITY ENGINEER WITH A GREATER DEPTH IS NECESSARY TO PROVIDE SUFFICIENT STABILITY. THE CITY RESERVES THE RIGHT TO REQUIRE A DEVELOPER TO HAVE A GEOTECHNICAL INVESTIGATION MADE OF THE SOILS IN THE DEVELOPMENT AND A REPORT SUBMITTED TO DETERMINE IF ADDITIONAL THICKNESSES ARE REQUIRED.

**UNIQUE SITE CONDITIONS MAY NECESSITATE AN ADJUSTMENT TO THE MINIMUM ELEVATION OF THE CENTER OF THE ROAD ABOVE THE FINISHING MINIMUM HEIGHT REQUIRES SPECIFIC APPROVAL BY THE CITY ENGINEER AND A REQUEST FOR MODIFICATION TO THE STANDARD TO THE CITY COUNCIL BEFORE A FINAL APPROVAL CAN BE GRANTED.

TYPICAL DRIVEWAY DETAIL



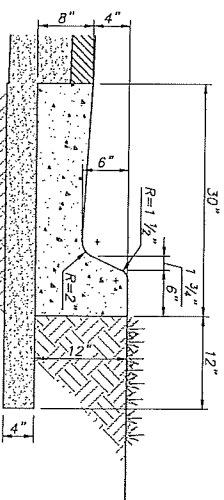
CITY CONSULTING ENGINEER	DATE	APPROVED	REVISION DATE:	SHEET: 1
BEAR RIVER CITY JAWOR	DATE	HANSSEN & ASSOCIATES, INC. Consulting Engineers and Land Surveyors 535 North Main Bingham City, Utah 84302 393-6800 732-8272	DATE: 3/01/07 SCALE: N/A	Bear River City Public Works Construction Standards 99' TYPICAL STREET SECTION RURAL CLASSIFICATION OF 13 SHEETS



TYPICAL STREET SECTION

NOTE:

- THIS TYPICAL STREET SECTION SHALL BE USED WHERE URBAN-TYPE STREET IMPROVEMENTS ARE DESIRED IN A MASTER PLANNED DEVELOPMENT.
- THIS DRAWING IS NOT TO VERTICAL SCALE. VERTICAL FEATURES ARE EXAGGERATED FOR DRAWING CLARITY.
- ALL WATER VALVES ARE TO BE FINISHED WITH CONCRETE COLLARS AT THE SURFACE.
- THE CRUSHED GRAVEL AND ASPHALT THICKNESSES SHOWN ARE CONSIDERED AS CITY MINIMUM STANDARDS AND MAY BE INCREASED AS DETERMINED BY THE CITY ENGINEER. WHEN A GREATER DEPTH IS NECESSARY TO PROVIDE SUFFICIENT STABILITY, THE CITY RESERVES THE RIGHT TO REQUIRE A DEVELOPER TO HAVE A GEOTECHNICAL INVESTIGATION MADE OF THE SOILS IN THE DEVELOPMENT AND A REPORT SUBMITTED TO DETERMINE IF ADDITIONAL THICKNESSES ARE REQUIRED.
- MINIMUM CURB & GUTTER SLOPE TO BE 0.4%.

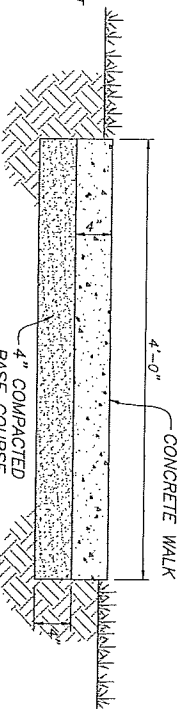


CURB & GUTTER SECTION

NOT TO SCALE

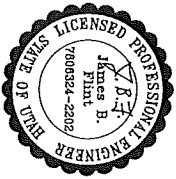
NOTE:

- CONTRACTION JOINT EVERY 10' FEET
- CONCRETE SHALL BE 6" THICKNESS THROUGH DRIVEWAYS
- EXPANSION MATERIAL REQ'D AT CONSTRUCTION JOINTS

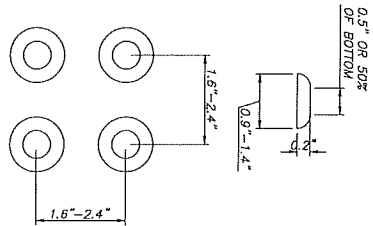


SIDEWALK SECTION

NOT TO SCALE



CITY CONSULTING ENGINEER	DATE	APPROVED	REVISION DATE:	Bear River City Public Works Construction Standards	SHEET: 2
Bear River City Mayor	DATE	DEAN HANSEN & ASSOCIATES, INC. Consulting Engineers and Land Surveyors 538 North Main Bingham City, Utah 84302 723-5451 399-4805 723-4272	DATE: 2/28/07 SCALE: N/A	TYPICAL STREET SECTION URBAN CLASSIFICATION	OF 13 SHEETS



STEEL REINFORCED
CONCRETE TILE
"DOGFACE" UNIT OR
CITY APPROVED
EQUAL (SEE NOTE)

6" ROAD BASE

NOTES:
1. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

TILE DETAIL

GENERAL NOTES:
A THE DETECTOR

NOTES: 1. LOCATE DETECTABLE WARNINGS SO THAT THE EDGE NEAREST THE BACK OF CURB OR OTHER POTENTIAL

HAZARD IS 6 INCHES FROM THE BACK OF CURB OR OTHER POTENTIAL HAZARD. PROVIDE 2-FOOT MINIMUM DEPTH.

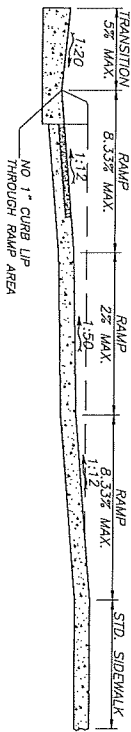
SEE FIGURE FOR TRUNCATED DOME
SIZE AND SPACING DETAILS.

TRUNCATED DOME DETAIL

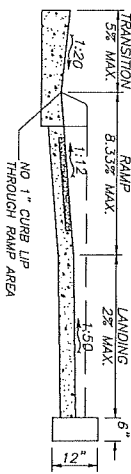
C. WHEN A DETECTABLE WARNING SURFACE DOME IS CUT, THE REMAINING PORTION OF THE DOME SHALL BE BEVELED TO A MAXIMUM SLOPE OF 1:2.

B. THE COLOR FOR THE DETECTABLE WARNING SURFACE SHALL BE HI-VISIBILITY YELLOW IN COLOR AS APPROVED BY THE CITY OR AUTHORIZED REPRESENTATIVE.

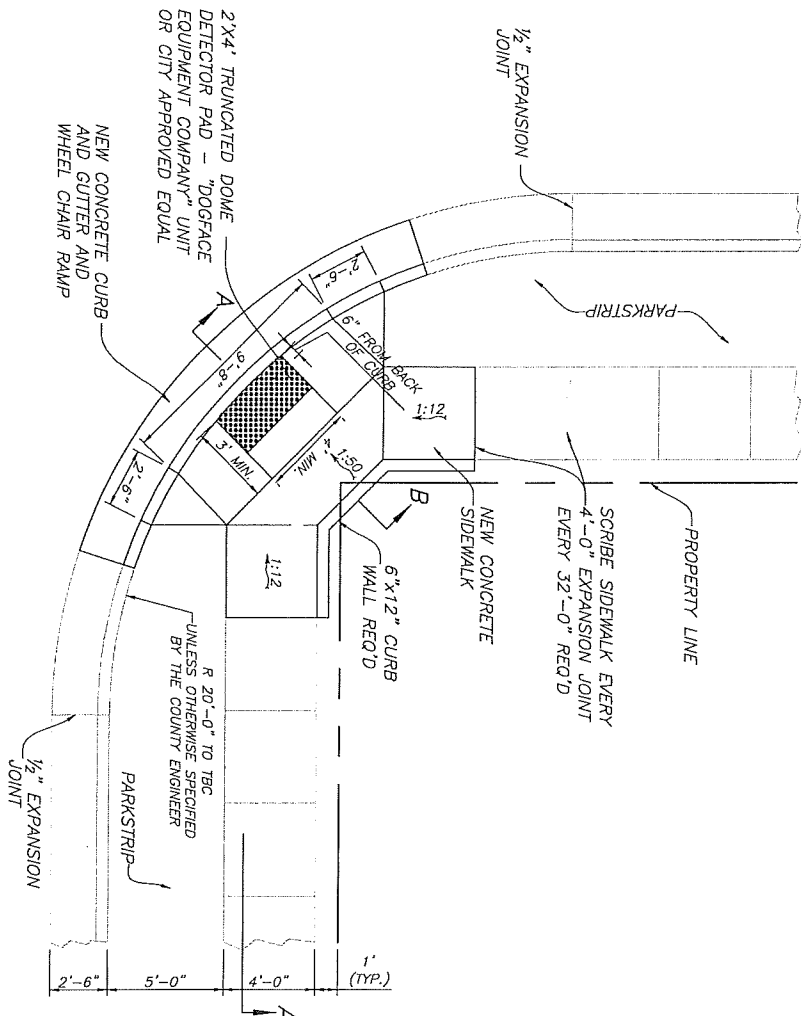
C. WHEN A DETECTABLE WARNING SURFACE DOME IS CUT, THE REMAINING PORTION OF THE DOME SHALL BE BEVELED TO A MAXIMUM SLOPE OF 1:2.



SECTION A-A



SECTION A-B



APPROVED

REVISION DATE:

Bear River City

SHEET:

CITY CONSULTING ENGINEER

DATE _____

BEAR RIVER CITY MAYOR

DATE _____

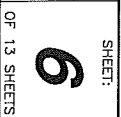
538 North Main	Brigham City, Utah	84302
Brigham City	Ogden	Logan
725-3491	599-4405	732-8272

DATE: 2/28/07

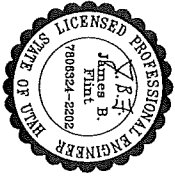
TYPICAL WHEEL CHAIR RAMP

OF 13 SHEETS





T INTERSECTION SHALL BE LIT WITH LIGHT ASSEMBLY LOCATED OPPOSITE THE CENTRAL LINE OF INTERSECTING STREET.



CITY CONSULTING ENGINEER

DATE

BEAR RIVER CITY MAYOR

DATE

APPROVED

J.B. HANSEN & ASSOCIATES, INC.
Consulting Engineers and Land Surveyors
538 North Main
Birmingham, Utah 84302
Office: 723-3491
Fax: 723-4893

REVISION DATE:

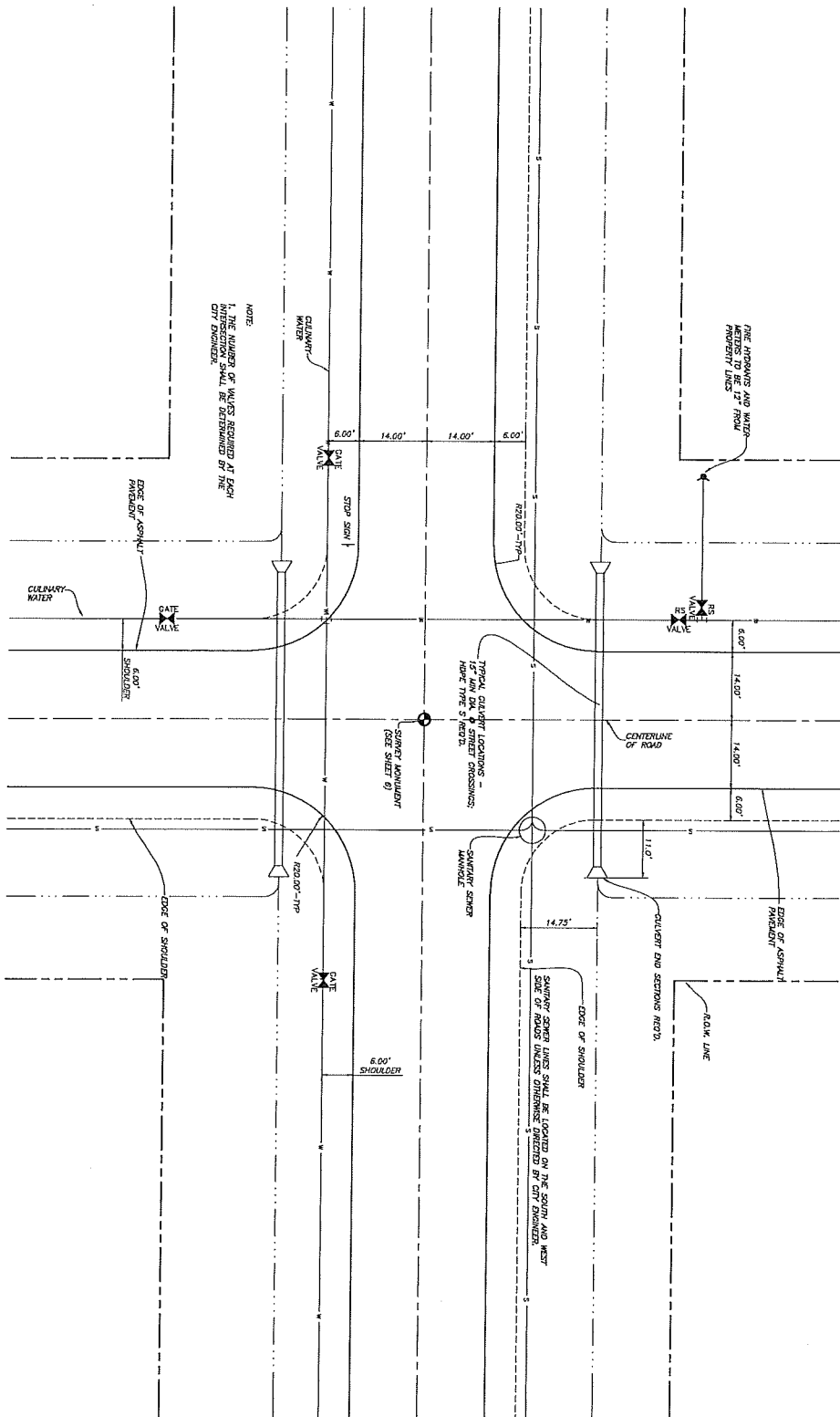
DATE: 2/28/07
SCALE: N/A

Bear River City
Public Works Construction Standards
TYPICAL STREET INTERSECTION
RURAL CLASSIFICATION

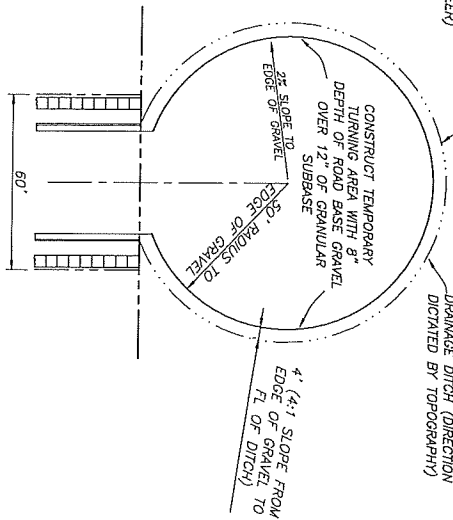
SHEET:

7

OF 13 SHEETS

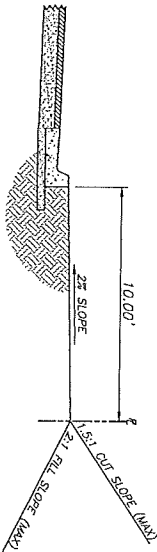


DRAINAGE DITCH (DIRECTION OF DRAINAGE TO BE APPROVED BY THE CITY ENGINEER)

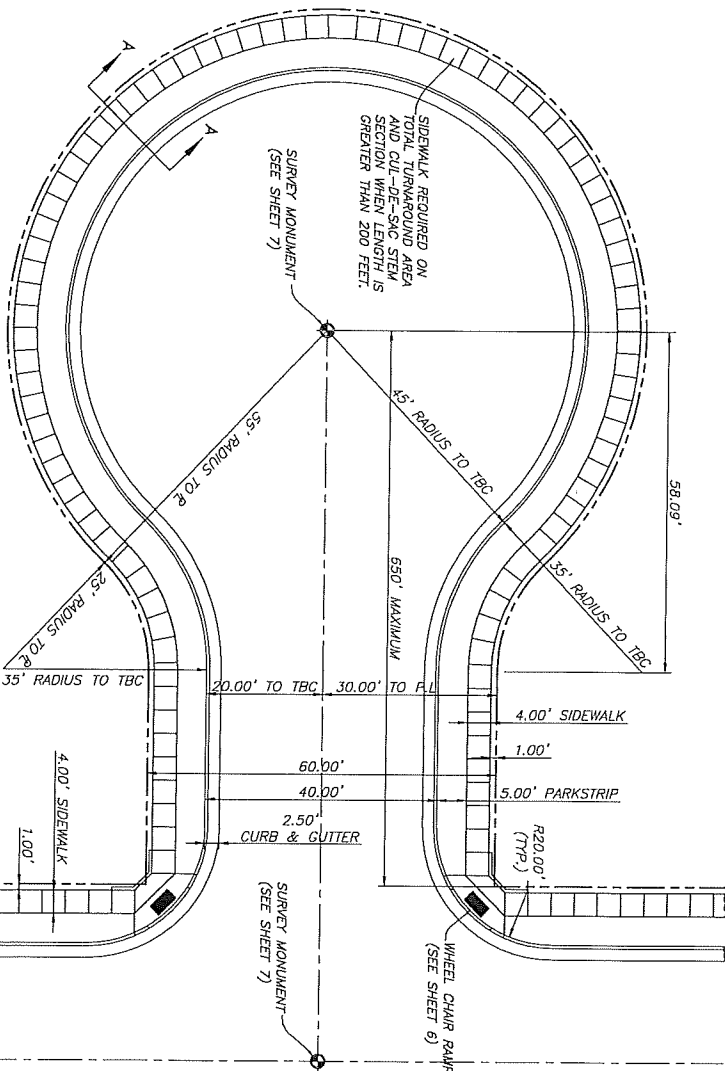


TEMPORARY TURNAROUND
NOT TO SCALE

NOTE:
WHEN TURNAROUND CANNOT BE CONSTRUCTED OUTSIDE OF THE SUBDIVISION, IT SHALL BE LOCATED ON A PORTION OF THE SUBDIVISION LOTS (AS NEEDED) WITH THE SUBDIVIDER PLACING IN ESCROW AN AMOUNT OF MONEY SUFFICIENT TO COVER THE STREET IMPROVEMENTS TO THE SUBDIVISION BOUNDARY LINES. FUNDS WILL BE USED AT SUCH TIME THE STREET IS EXTENDED.



SECTION A-A
NOT TO SCALE

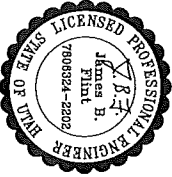


NOTES:

1. SIDEWALK IS NOT REQUIRED ON CUL-DE-SAC'S LESS THAN 200' IN LENGTH.
2. SIDEWALKS AS SHOWN IS REQUIRED ON CUL-DE-SAC'S 200' TO 650' IN LENGTH (650' LENGTH IS MAX. ALLOWED)
3. TURNAROUND PORTION OF CUL-DE-SAC SHALL HAVE A CENTERLINE GRADE NOT TO EXCEED 4%.
4. THE CIRCULAR CUL-DE-SAC LAYOUT SHOWN ON THIS SHEET IS TO BE CONSIDERED AS THE CITY STANDARD DESIGN. OTHER ALTERNATE DESIGN MAY BE CONSIDERED AS APPROVED BY THE CITY ENGINEER.

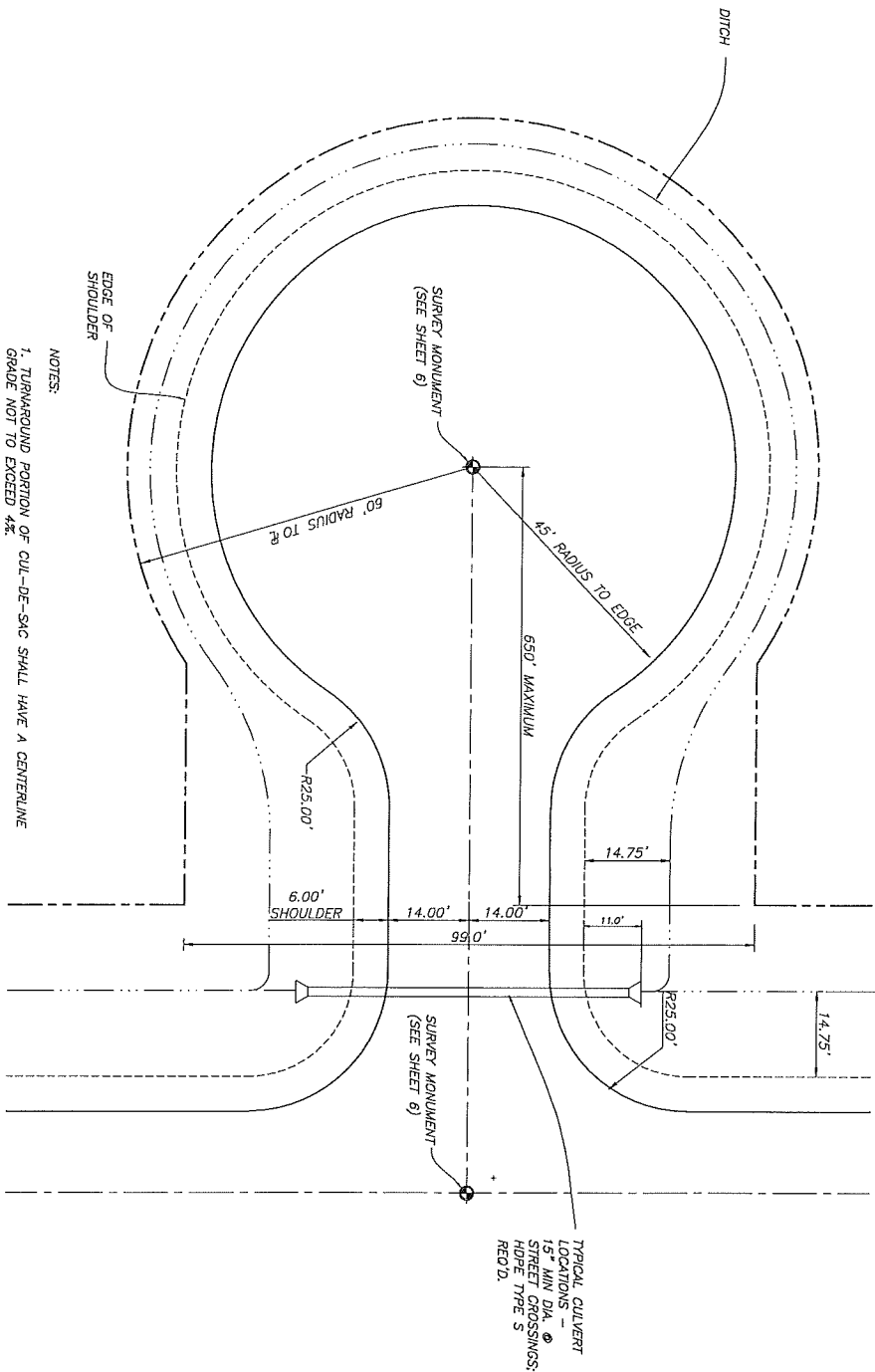


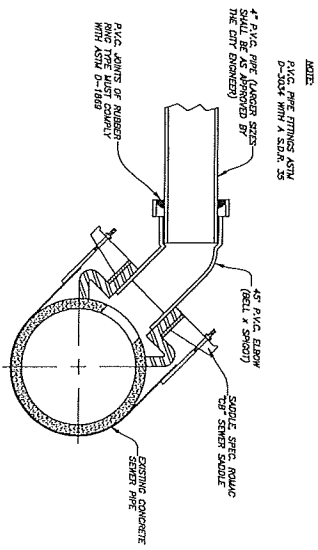
CITY CONSULTING ENGINEER	DATE	APPROVED	REVISION DATE:	Public Works Construction Standards	SHEET: 8 OF 13 SHEETS
BEAR RIVER CITY MAYOR	DATE	JAMES B. FLINT 7808324-2202	DATE: 3/01/07	TYPICAL CUL-DE-SAC DETAIL URBAN CLASSIFICATION	
JAMES B. FLINT 7808324-2202	BEAR RIVER CITY MAYOR	JAMES B. FLINT 7808324-2202	DATE: 3/01/07	TYPICAL CUL-DE-SAC DETAIL URBAN CLASSIFICATION	



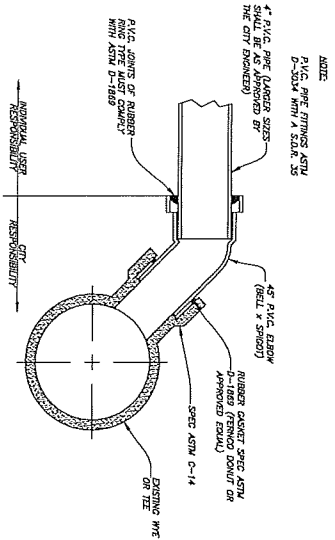
APPROVED		REVISION DATE:		Bear River City Public Works Construction Standards	SHEET: 9 OF 13 SHEETS
CITY CONSULTING ENGINEER	DATE	BEAR RIVER CITY MAYOR	DATE		
JBM HANSEN & ASSOCIATES, INC. Consulting Engineers and Land Surveyors 538 North Main Brigham City, Utah 84302 Brigham City 723-1481 Ogden 393-4805 Logan 723-8272		DATE: 3/01/07 SCALE: 1" = 20'		TYPICAL CUL-DE-SAC DETAIL RURAL CLASSIFICATION	

- NOTES:
1. TURNAROUND PORTION OF CUL-DE-SAC SHALL HAVE A CENTERLINE GRADE NOT TO EXCEED 4%.
 2. THE CIRCULAR CUL-DE-SAC LAYOUT SHOWN ON THIS SHEET IS TO BE CONSIDERED AS THE CITY STANDARD DESIGN. OTHER ALTERNATE DESIGN MAY BE CONSIDERED AS APPROVED BY THE CITY ENGINEER.

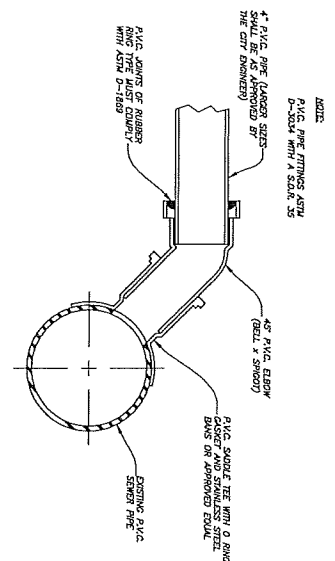




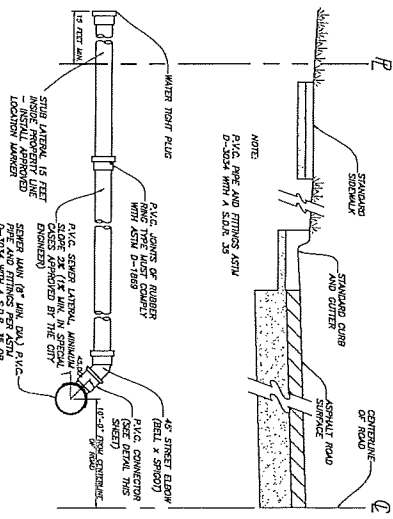
TAPPING INTO EXISTING CONCRETE PIPE
NOT TO SCALE



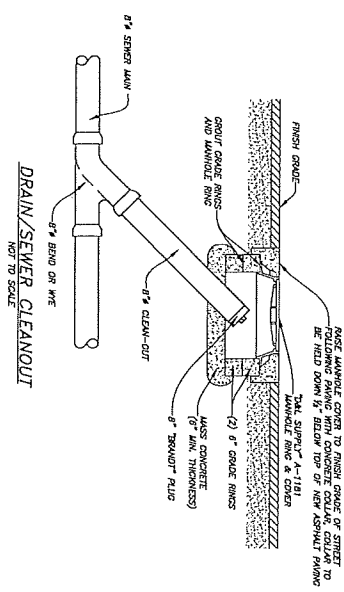
CONNECTING INTO EXISTING WYE OR TEE
NOT TO SCALE



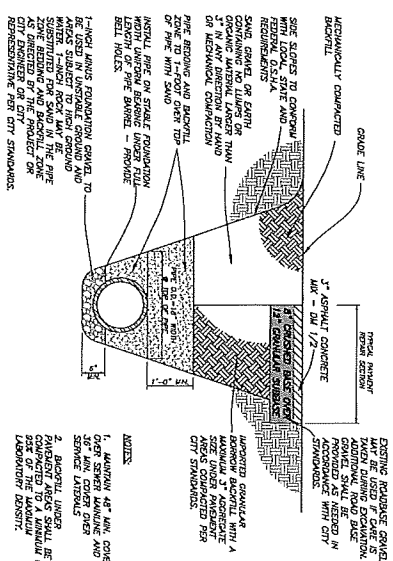
TAPPING INTO EXISTING P.V.C. PIPE
NOT TO SCALE



TYPICAL SEWER LATERAL CONNECTION
NOT TO SCALE



DRAIN/SEWER CLEANOUT
NOT TO SCALE

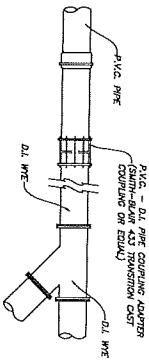


TYPICAL TRENCH SECTION
NOT TO SCALE

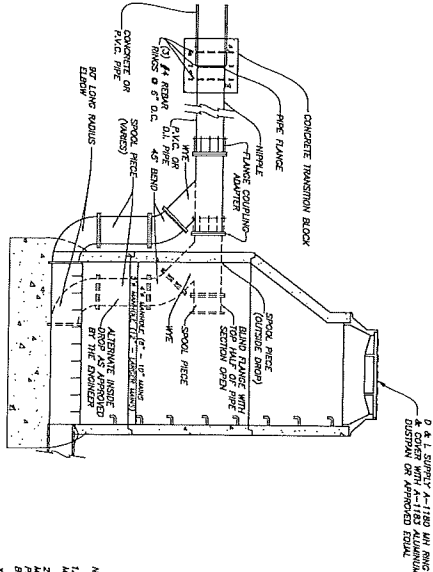


JIM HANSEN, P.E. FOR HANSEN AND ASSOCIATES	APPROVED BEAR RIVER CITY MAYOR	DATE	REVISION DATE: 11/17/16	Bear River City Public Works Construction Standards SANTARY SEWER DETAILS AND CLEANOUT	SHEET: 10 OF 13 SHEETS
---	-----------------------------------	------	----------------------------	---	-------------------------------------

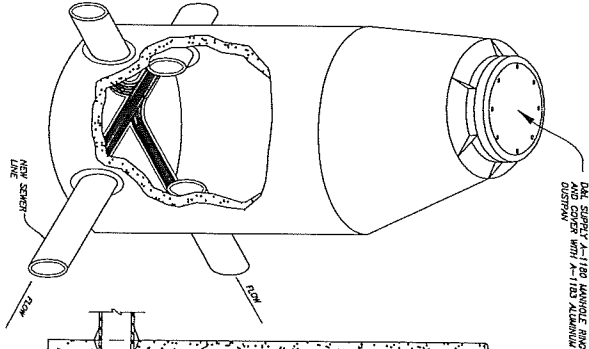
NOTE:
ALL SANITARY SEWER LINES SHALL BE
INSPECTED BEFORE BEING BACKFILLED.



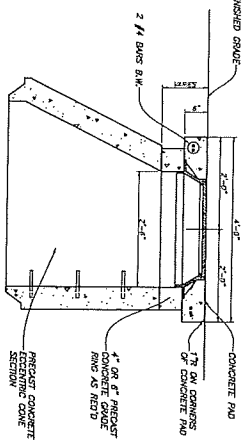
TYPICAL D.I. PIPE TO P.V.C. PIPE CONNECTION
NOT TO SCALE



DROP MANHOLE DETAIL
NOT TO SCALE



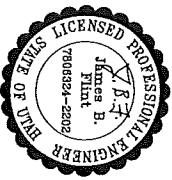
TYPICAL SANITARY SEWER MANHOLE DETAIL
NOT TO SCALE



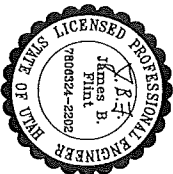
ADJUST MANHOLE TO GRADE DETAIL
NOT TO SCALE

NOTES:
1. 5\"/>

RISEB \"BOOT\" TYPE CONNECTION—TYPICAL ON ALL NEW MANHOLES WHERE PIPES ENTER AND EXIT.



CITY CONSULTING ENGINEER	DATE	APPROVED	REVISION DATE:	SHEET: 11 OF 13 SHEETS
BOB RIVER CITY MAYOR	DATE	JAMES HANSEN & ASSOCIATES, INC. Consulting Engineers and Land Surveyors 538 North Main Bighorn City, Utah 84402 723-5491 Opden 338-4805 Lagon 723-8272	DATE: 3/01/07 SCALE: NO SCALE	Bear River City Public Works Construction Standards SANITARY SEWER MANHOLE DETAILS



CITY CONSULTING ENGINEER

DATE

BEAR RIVER CITY MAYOR

DATE

APPROVED

HANSEN & ASSOCIATES, INC.
Consulting Engineers and Land Surveyors
538 North Main
Bingham City, Utah 84302
723-3461
Open 393-4803
Logan 722-8272

REVISION DATE:

DATE: 3/01/07

SCALE: NO SCALE

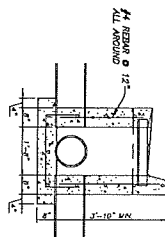
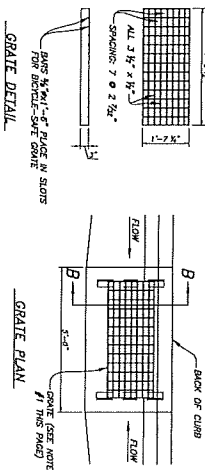
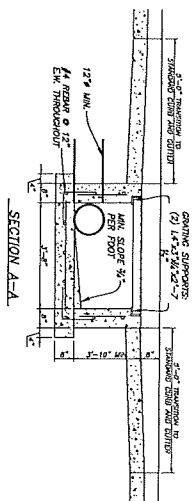
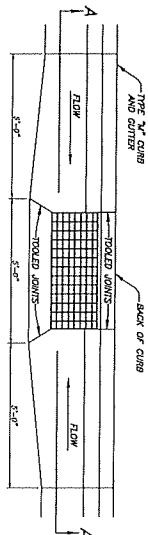
Bear River City
Public Works Construction Standards

STORM DRAIN DETAILS

SHEET:

12

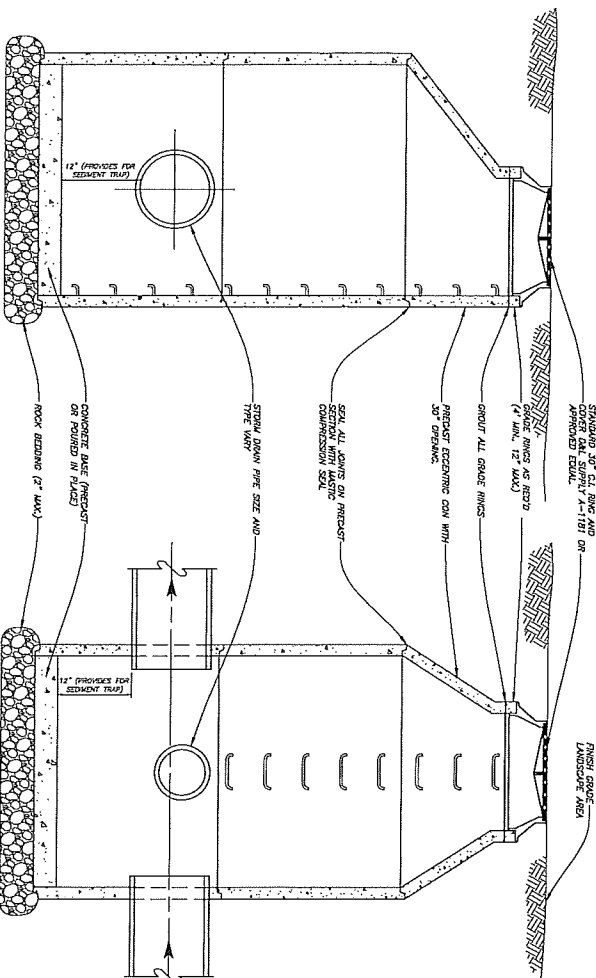
OF 13 SHEETS



- NOTES:
1. ALL GRATES SHALL BE UL-100 STANDARD 14-100 OR EQL SUPPLY, N-8221, AS SHOWN IN DETAIL AND ORIGINATED IN ACCORDANCE WITH UL-100 STANDARD.
 2. BRICKLE SAFE GRATE REQ'D.

CONTRACTOR MAY SUBSTITUTE MAJOR PRECAST GRATE TO MATCH DESIGN OR APPROVED EQL.

TYPICAL CURB INLET BOX



TYPICAL LINE MANHOLE
NOT TO SCALE

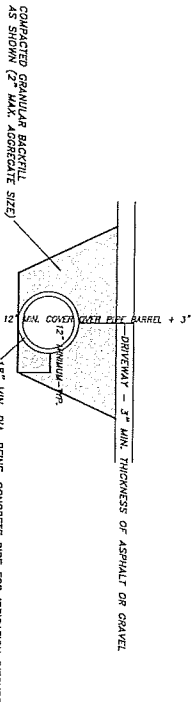
TYPICAL JUNCTION MANHOLE
NOT TO SCALE

NOTE:
1. MANHOLE ROTO WHERE LINE SIZE IS 15" OR SMALLER, 5" MANHOLE ROTO AND/OR THE MANHOLE IS AT A JUNCTION.

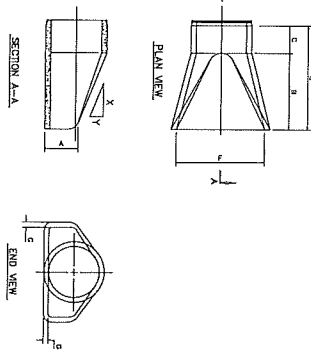
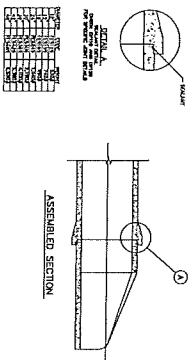
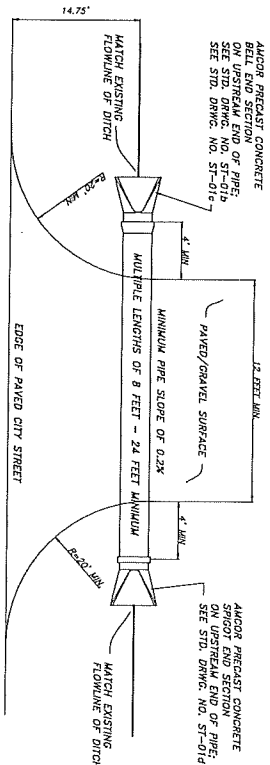


1. ALL CONSTRUCTION SHALL COMPLY WITH BEAR RIVER CITY ORDINANCES AND APPLICABLE SECTIONS OF THE LATEST EDITION OF THE A.P.W.A. (AMERICAN PUBLIC WORKS ASSOCIATION) STANDARD SPECIFICATIONS.
2. THIS DETAIL PROVIDES GUIDELINES AND REQUIREMENTS FOR CONSTRUCTING CULVERTS WHERE DRIVEWAYS CROSS ROAD SIDE BARRON PIT DRAINAGE SHALES. WHERE DRIVEWAYS CROSS ROAD SIDE DRAINAGE SHALES, AS REQUIRED BY THE CITY ENGINEER TO PASS LARGER IRRIGATION FLOWS THROUGH THE CULVERT.
3. IF A PROPERTY OWNER DESIRES TO COMPLETELY ENCLOSE AN IRRIGATION DITCH OR DRAINAGE SHALE ACROSS THEIR PROPERTY, THE PIPE SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER AND DETAILED COMMENSURATE WITH THE DESIGN OF THE PIPE PROJECT.

DRIVEWAY CULVERT SECTION



DRIVEWAY CULVERT PLAN



ANCHOR PRECAST
FLARED END SECTION
ROAD SIDE DRAINAGE SHALE
SPOT END SECTION

ANCHOR CONCRETE
FLARED END SECTION
ROAD SIDE DRAINAGE SHALE
SPOT END SECTION

CITY CONSULTING ENGINEER		APPROVED		REVISION DATE:		DATE: 3/01/07		SCALE: NO SCALE	
DATE		BEAR RIVER CITY MAYOR		DATE		538 North Main Bingham City 723-3451		Bingham City, Utah 84302 393-4000 723-4272	
CITY CONSULTING ENGINEER		BEAR RIVER CITY MAYOR		DATE		538 North Main Bingham City 723-3451		Bingham City, Utah 84302 393-4000 723-4272	
CITY CONSULTING ENGINEER		BEAR RIVER CITY MAYOR		DATE		538 North Main Bingham City 723-3451		Bingham City, Utah 84302 393-4000 723-4272	

Bear River City
Public Works Construction Standards
DRIVEWAY CULVERT DETAILS