

TREMONTON CITY CORPORATION

GENERAL PUBLIC WORKS CONSTRUCTION STANDARDS AND SPECIFICATIONS

STANDARD DRAWINGS

APPENDIX "A"

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- 16.....SECONDARY WATERLINE AND DRIVEWAY CULVERT DETAIL
- 17.....TREE DETAILS
- 18.....SPRINKLER DETAILS
- 19.....TRAILS DETAILS

SUBMITTED & RECOMMENDED

Chris L. Brenholt
 CHRIS L. BRENHOLT, P.E.
 TREMONTON CITY ENGINEER
 5/11/2011
 DATE



APPROVAL

Roger Ffrench
 ROGER FRENCH
 TREMONTON CITY MAYOR
 5-12-11
 DATE



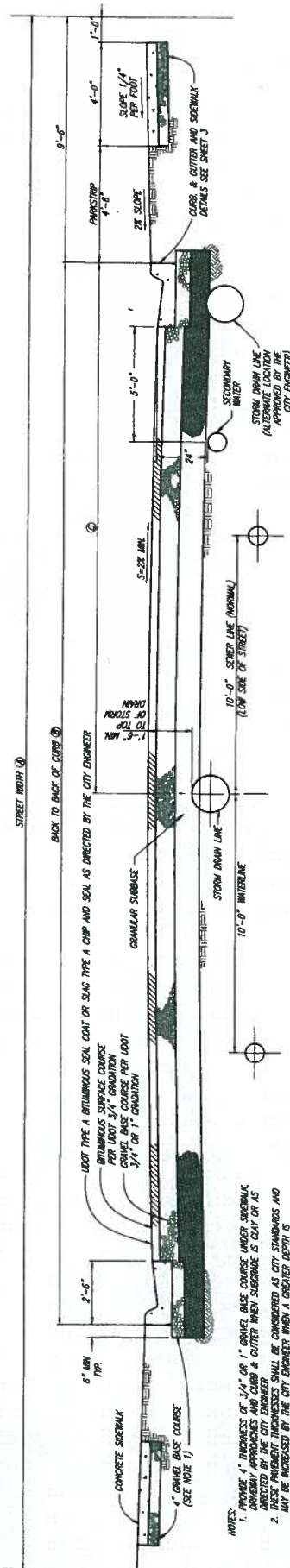
Paul Fulgham
 PAUL FULGHAM
 TREMONTON CITY PUBLIC WORKS DIRECTOR
 5-11-11
 DATE

Shawn Warkke
 SHAWN WARKKE
 TREMONTON CITY MANAGER
 5-11-11
 DATE

Marlene S. Deo
 MARLENE S. DEO
 ATTEST, CITY RECORDER
 5-12-11
 DATE

MARCH 17, 2011





STANDARD TREMONTON CITY ROADWAY SECTION

NOTES:
 1. MINIMUM 4" THICKNESS OF 1/2" OR 3/4" GRAVEL BASE COURSE UNDER SIDEWALK OR CURB AND GUTTER WHEN SUBGRADE IS CLAY OR AS DIRECTED BY THE CITY ENGINEER.
 2. THESE PAVEMENT THICKNESSES SHALL BE CONSIDERED AS CITY STANDARDS AND MAY BE INCREASED TO PROVIDE SUPERIOR STABILITY. GREATER DEPTH IS NECESSARY TO SUBMIT AN ALTERNATIVE PAVEMENT DESIGN BASED ON A DETAILED SOIL ANALYSIS FOR APPROVAL BY THE CITY ENGINEER. DEVELOPER MAY SUBMIT AN ALTERNATIVE PAVEMENT DESIGN BASED ON A DETAILED SOIL ANALYSIS FOR APPROVAL BY THE CITY ENGINEER WHICH MAY ADOPT PAVEMENT THICKNESS, BUT IN NO CASE SHALL THE BASE COURSE BE LESS THAN 4" THICK.

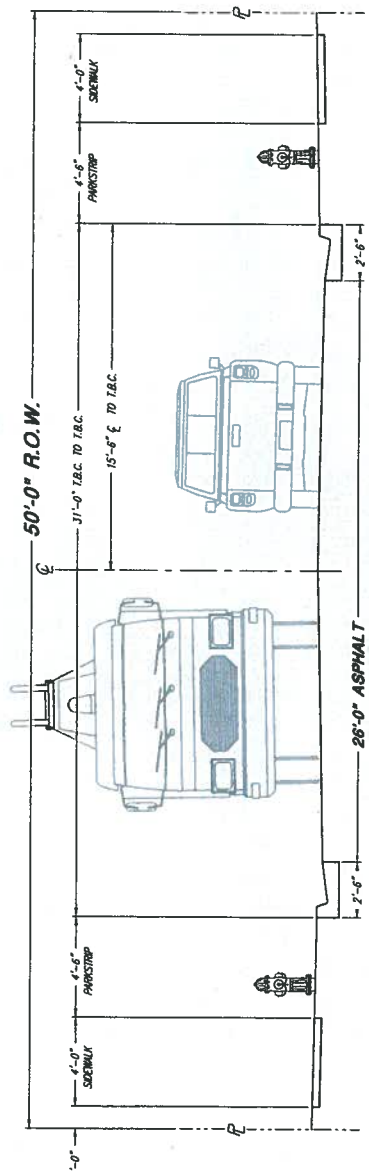
STREET DESIGNATION	R.O.W. WIDTH ①	T.B.C. TO T.B.C. ②	T.B.C. TO T.B.C. ③	T.B.C. TO T.B.C. ④	A.C. ⑤	RIS. COURSE ⑥	CONCRETE BARRIERS ⑦	MAX. DISTANCE TO CURB ⑧
MINOR	50'	SEE SHEET 2A	SEE SHEET 2A	SEE SHEET 2A	3"	8"	8"	12K 8K
LOW IMPACT	60'	SEE SHEET 2A	SEE SHEET 2A	SEE SHEET 2A	3"	8"	8"	12K 8K
STANDARD RESIDENTIAL	60'	SEE SHEET 2A	SEE SHEET 2A	SEE SHEET 2A	3"	8"	8"	12K 8K
COLLECTOR	68'	SEE SHEET 2B	SEE SHEET 2B	SEE SHEET 2B	3"	8"	12"	10K 7K
MINOR ARTERIAL	80'	SEE SHEET 2C	SEE SHEET 2C	SEE SHEET 2C	3 1/2"	10"	15"	10K 7K
MAJOR ARTERIAL	100'	SEE SHEET 2C	SEE SHEET 2C	SEE SHEET 2C	4"	12"	18"	10K 7K

NOTES:
 1. MINIMUM DIFFERENCE IN ELEVATION BETWEEN CURBS ON OPPOSITE SIDES OF THE STREET SHALL NOT EXCEED THOSE SHOWN IN THE CROWN LOCATION TABLE BELOW.

2. THE LOCATION OF SIDEWALK AND CURB AND GUTTER MAY VARY ON INDIVIDUAL ARTERIAL STREETS PER DIRECTION OF THE CITY ENGINEER.

3. STREET INTERSECTIONS SHALL HAVE A VERTICAL ALIGNMENT SUCH THAT THE GRADE SHALL NOT EXCEED THREE (3) PERCENT FOR A MINIMUM DISTANCE OF FIFTY (50) FEET EACH WAY FROM THE CENTERLINE OF THE INTERSECTION.

4. MAXIMUM GROUETS SHALL BE APPROVED ONLY WHEN ACCOMPANIED BY CHANGES TO A LESSOR GRADE AND WHERE LENGTH OF THAT PORTION OF THAT ROAD AT MAXIMUM GRADE IS LESS THAN SIX HUNDRED (600) FEET.



STANDARD MINOR ROADWAY SECTION

SCALE: N.T.S.

CROWN LOCATION TABLE

T.B.C. - T.B.C. LIP TO CROWN	ELEV. DIFF.
41'	0.00
41'	0.50
47'	1.00
47'	0.50
47'	1.00

NOTE:
 ALL OTHER PROPOSED STREET PAVEMENTS SHALL BE AS APPROVED BY THE CITY ENGINEER

CROWN LOCATION FOR VARIOUS CROSS SLOPES



CONSULTING ENGINEERS
 1716 East 8000 South
 South Ogden, Utah 84403 (801) 476-8787

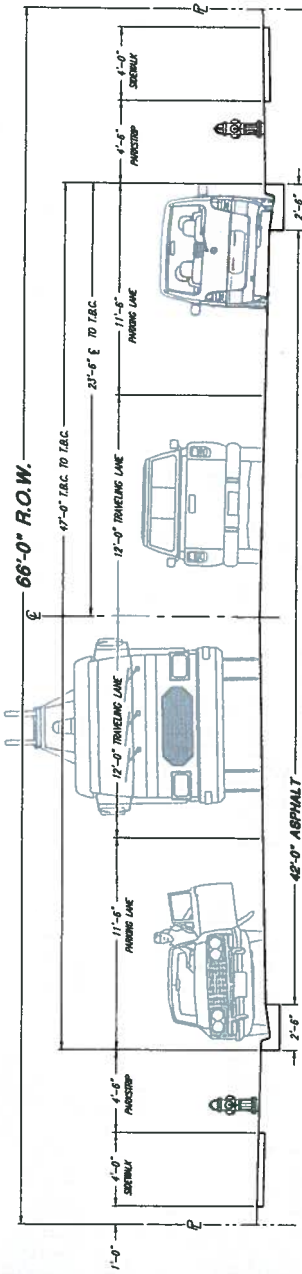


DESIGNED BY: _____
 DRAWN BY: _____
 CHECKED BY: _____

NO.	DATE	BY	APP.
1			
2			

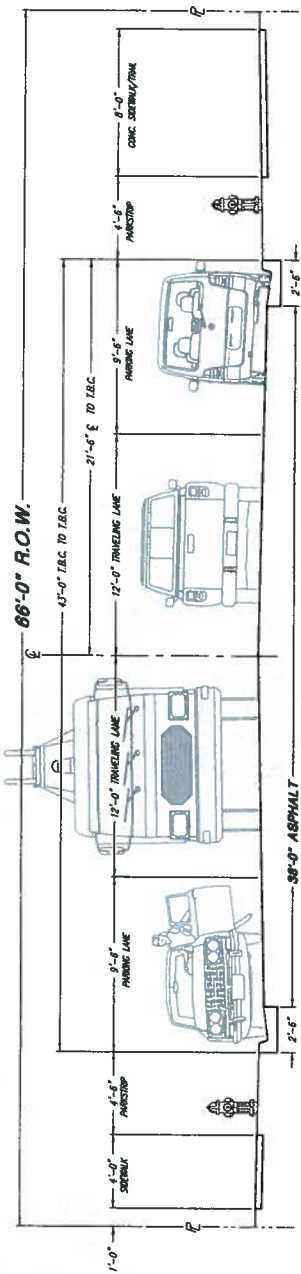
FEBRUARY 2010
 DATE

TREMONTON CITY CORPORATION
 PUBLIC WORKS STANDARDS
 ROADWAY SURFACE IMPROVEMENTS

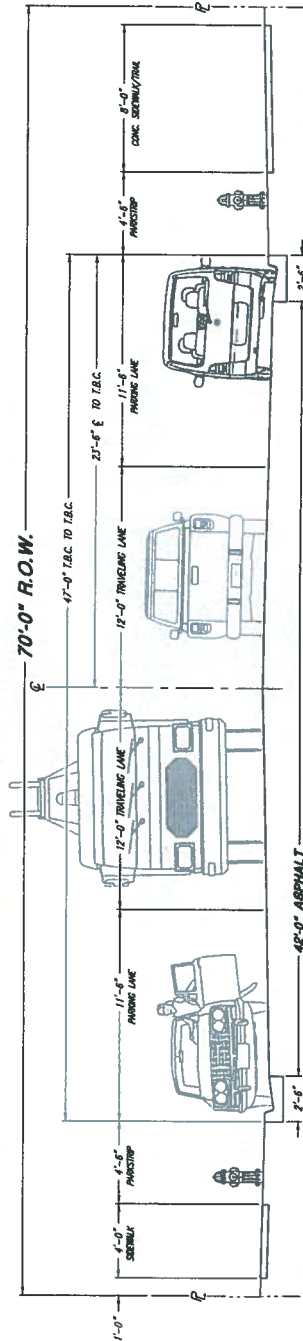


66'-0" R.O.W.
STANDARD COLLECTOR ROADWAY SECTION

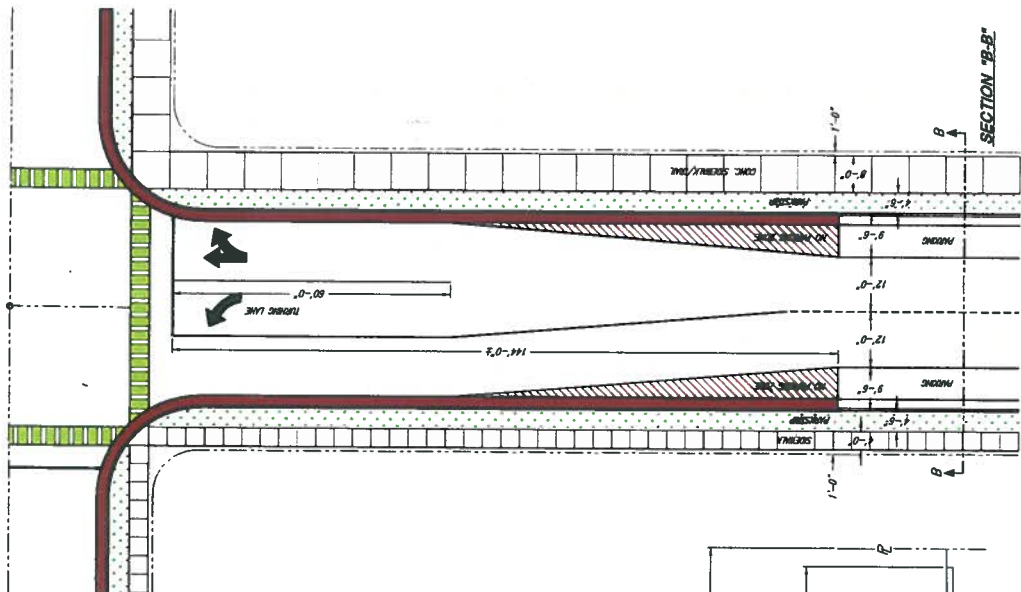
SCALE: N.T.S.



66'-0" R.O.W.
COLLECTOR W/ TRAIL SECTION & STREET PARKING
(SECTION "B-B")



70'-0" R.O.W.
EXTENDED COLLECTOR R.O.W. W/ TRAIL SECTION & STREET PARKING
EXTENDED TO A 70'-0" R.O.W.



SECTION "B-B"



APPROVED FOR CONSTRUCTION
FEBRUARY 2010

NO.	DATE	BY	CHKD.	APP.
1				
2				
3				

SCALE: N.T.S.
REVISIONS:
DATE: _____
BY: _____
CHKD.: _____
APP.: _____

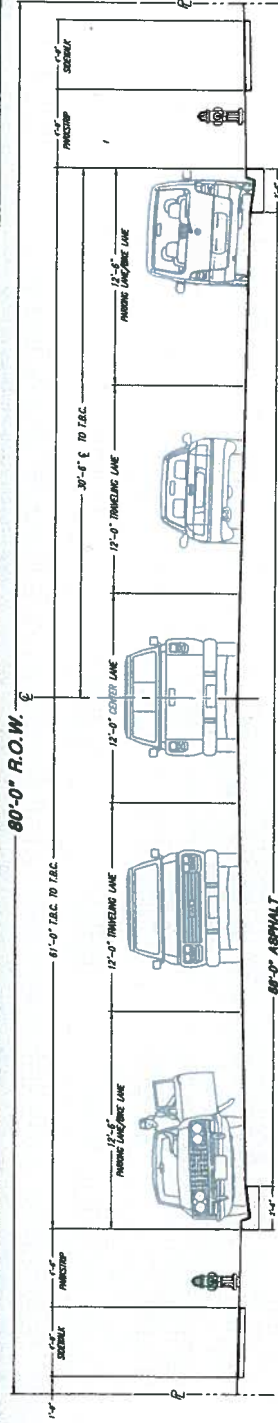


CONSULTING ENGINEERS
1718 East 3600 South
South Ogden, Utah 84403 (801) 276-1707

TREMBLON CITY CORPORATION
PUBLIC WORKS STANDARDS
COLLECTOR ROADWAY SECTIONS

MINOR ARTERIAL ROAD SECTIONS

80'-0" R.O.W.



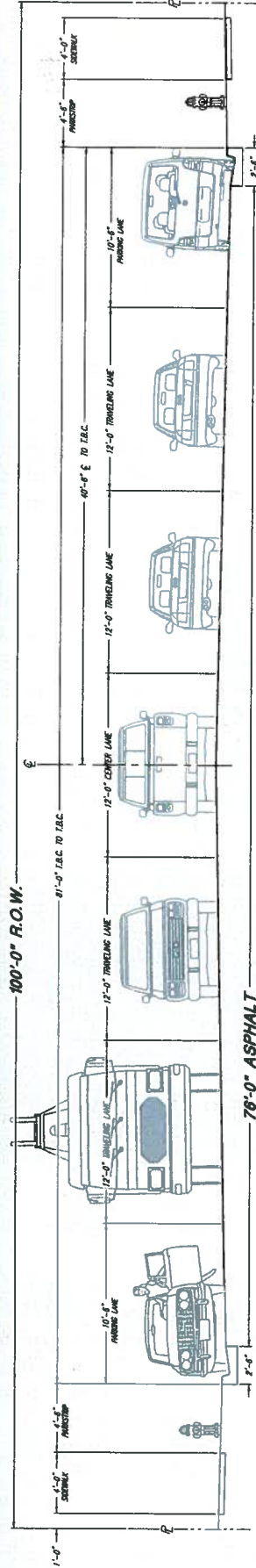
80'-0" ASPHALT

STANDARD MINOR ARTERIAL ROADWAY SECTION

SCALE: N.T.S.

MAJOR ARTERIAL ROAD SECTIONS

100'-0" R.O.W.

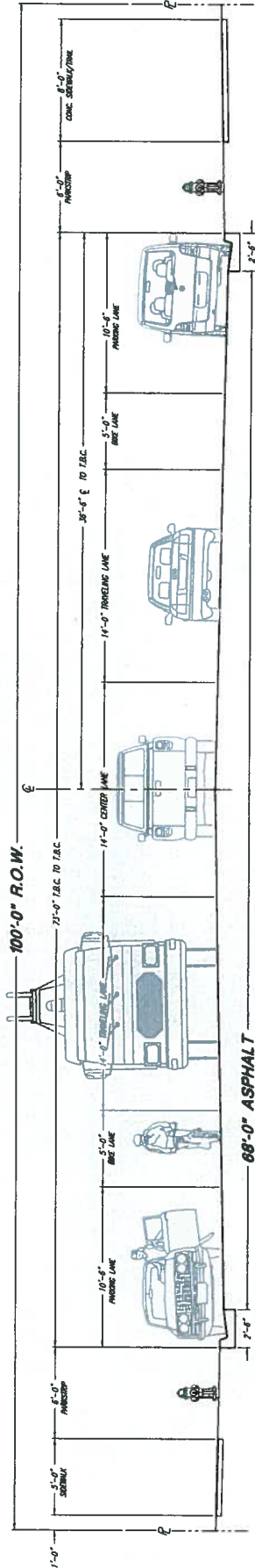


76'-0" ASPHALT

STANDARD MAJOR ARTERIAL ROADWAY SECTION

SCALE: N.T.S.

100'-0" R.O.W.



68'-0" ASPHALT

MAJOR ARTERIAL W/ TRAIL & BIKE LANE SECTION

SCALE: N.T.S.



1	ISSUE FOR CONSTRUCTION	DATE	BY
2	FIELD REVISIONS	DATE	BY
3	REVISIONS	DATE	BY

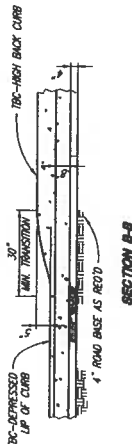
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REVISIONS:
DATE: _____ BY: _____
CHECKED: _____

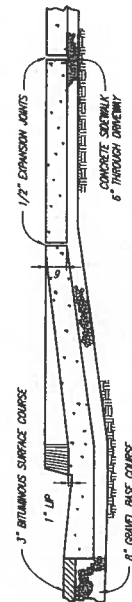
J.A. JONES & ASSOCIATES
CONSULTING ENGINEERS
1716 East 5000 South
South Ogden, Utah 84403 (801) 478-9787

TREHANTON CITY CORPORATION
PUBLIC WORKS STANDARDS

MINOR & MAJOR ARTERIAL ROADWAY SECTIONS



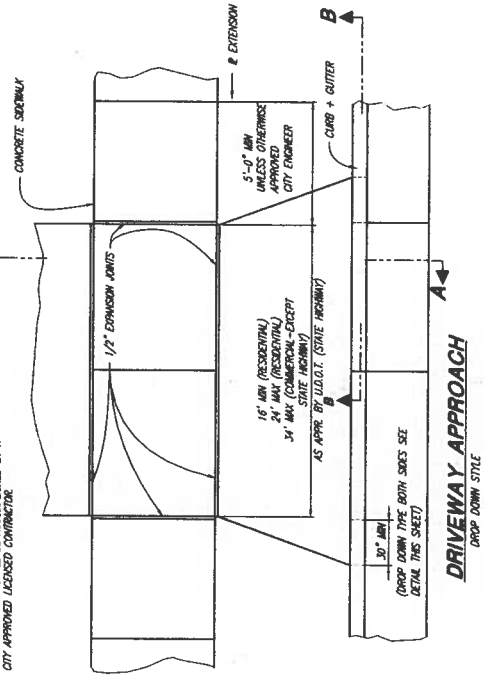
SECTION B-B



SECTION A-A

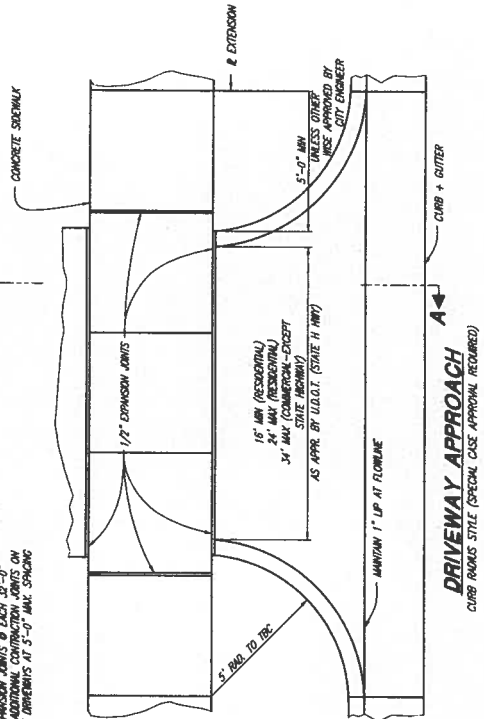
NOTE: IN NEW SUBURBS WHERE FUTURE DRIVEWAY CUTTING IS ANTICIPATED, THE DRIVEWAY APPROACH SHALL BE MADE BY SAW CUTTING THE BACK OF THE EXISTING CURB TO THE REQUIRED DRIVEWAY WIDTH. ALL SAW CUTTING SHALL BE ACCOMPLISHED BY A CITY APPROVED LICENSED CONTRACTOR.

NOTE: SIZE SIDEWALK 1/4" OF SIDEWALK THICKNESS @ EACH 4'-0" EXPANSION JOINTS @ EACH 3'-0" PROVIDE ADDITIONAL CONTRACTION JOINTS ON OVERSIZE DRIVEWAYS AT 5'-0" MAX. SPACING



DRIVEWAY APPROACH

DRIP DOWN STYLE



DRIVEWAY APPROACH

CURB RIMMO STYLE (SPECIAL CASE APPROVAL REQUIRED)



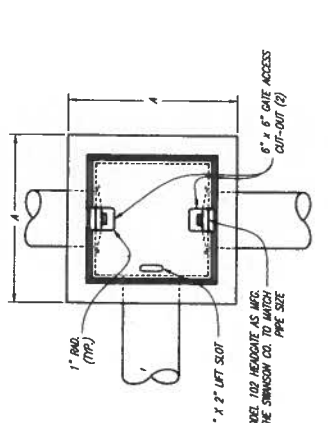
PROF. ENGINEER
FEBRUARY 2010

NO.	DATE	NAME	SCALE
1	REVISED	CLB	NOTE DRIVEWAY APPROACH TO SHEET 3
			N.T.S.



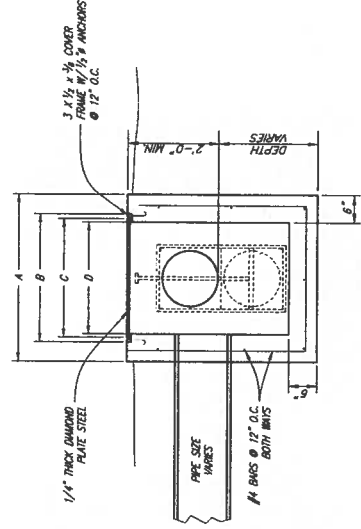
CONSULTING ENGINEERS
1716 East 5000 South
South Ogden, Utah 84403 (801) 478-9787

TREMONTON CITY CORPORATION
PUBLIC WORKS STANDARDS
DRIVEWAY APPROACH DETAILS



PLAN

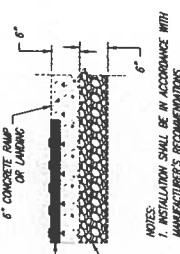
DIMENSION	TYPE I	TYPE II
A	3'-0"	4'-0"
B	2'-1 1/2"	3'-1 1/2"
C	2'-1"	3'-1"
D	2'-0"	3'-0"



SECTION

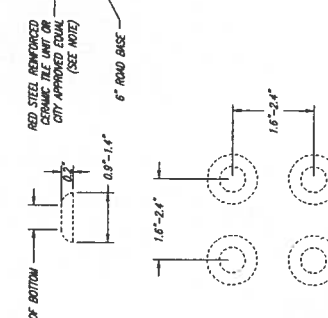
NOTES:
 1. PIPE MATERIALS & SIZE SHALL BE APPROVED BY IRRIGATION COMPANY.
 2. HORIZONTAL & VERTICAL ALIGNMENT TO BE APPROVED BY BROOMING CITY.

IRRIGATION BOX



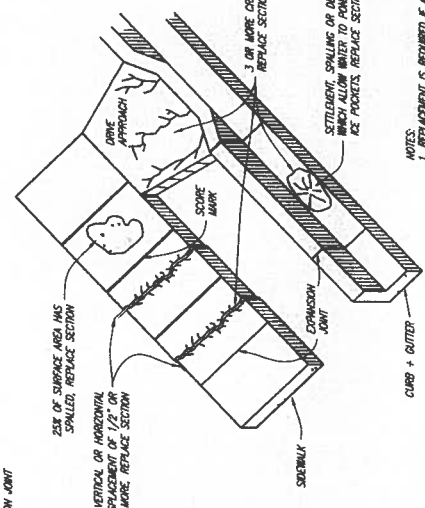
TILE DETAIL

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



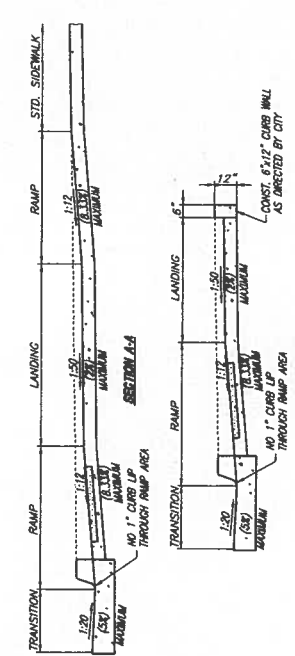
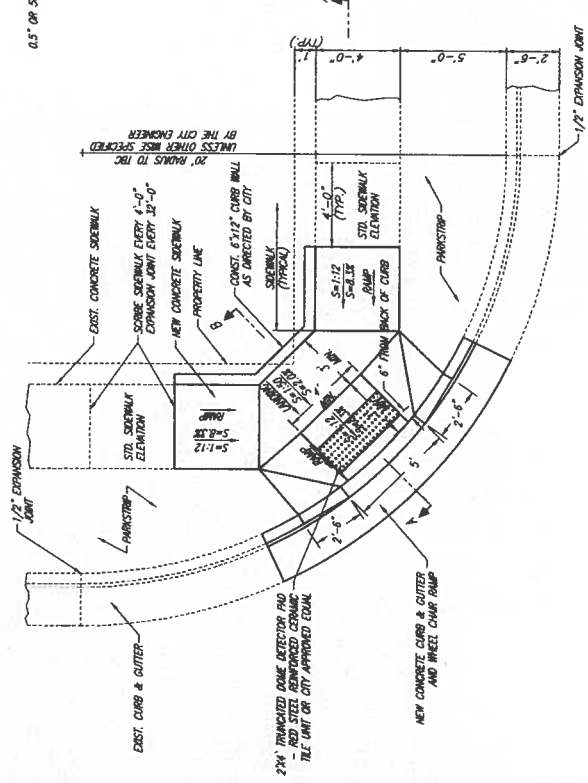
NOTES:
 1. LOCATE DETECTABLE WARNINGS SO THAT THE EDGE HAZARD IS 6 INCHES FROM THE BACK OF CURB OR OTHER POTENTIAL HAZARD. PROVIDE 2-FOOT MINIMUM DEPTH.
 2. SEE FIGURE FOR TRUNCATED DOME SIZE AND SPACING DIMENSION DETAILS.

TRUNCATED DOME DETAIL



NOTES:
 1. REPAIRMENT IS REQUIRED IF ANY COMPONENT HAS ONE OR MORE OF THE FOLLOWING DEFECTS:
 2. ANYTIME CONCRETE IS CUT TO REPLACE A DEFECTIVE COMPONENT, THE CUT SHOULD EXTEND COMPLETELY THROUGH THE PIECE BEING REPLACED.

DEFECTIVE CONCRETE REPLACEMENT CRITERIA



SECTION A-B

TYPICAL WHEEL CHAIR RAMP

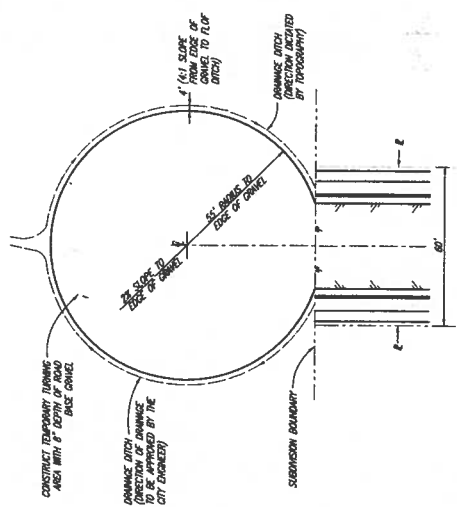


DATE: N.T.S.
 DRAWN: J.A.J.
 CHECKED: J.A.J.
 1716 East 5400 South
 South Ogden, Utah 84403 (801) 478-9787

CONSULTING ENGINEERS
 J.A. JONES & ASSOCIATES

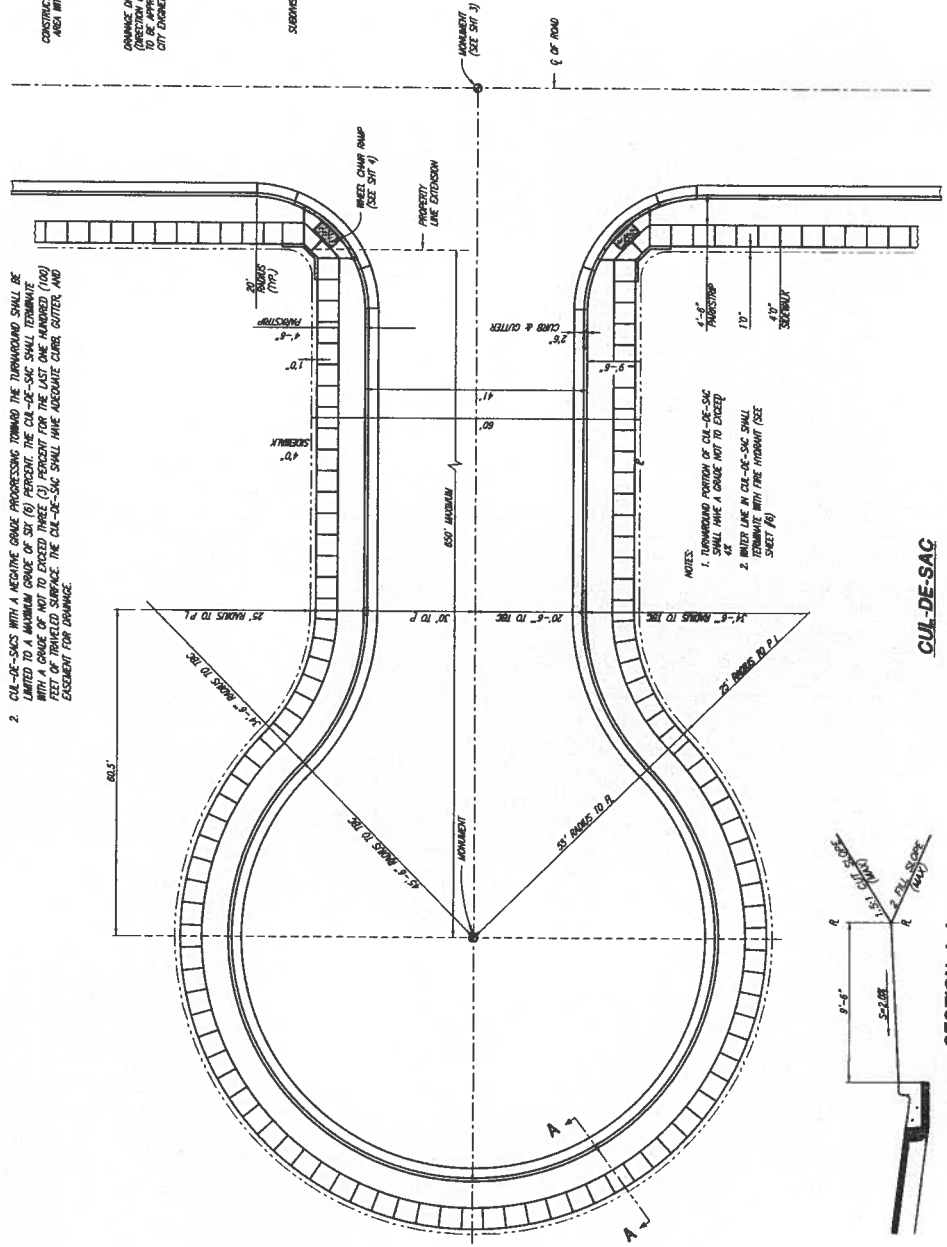
TREMBLON CITY CORPORATION
 PUBLIC WORKS STANDARDS
 TYPICAL WHEELCHAIR RAMP

- NOTES:
1. THE CIRCULAR CUL-DE-SAC LAYOUT SHOWN ON THIS SHEET IS TO BE CONSIDERED AS THE CITY STANDARD DESIGN. OTHER ALTERNATE DESIGNS MAY BE CONSIDERED AS APPROVED BY THE CITY ENGINEER.
 2. CUL-DE-SACS WITH A REVERSE GRADE PROGRESSING TOWARD THE TURNAROUND SHALL BE LIMITED TO A MAXIMUM GRADE OF SIX (6) PERCENT. THE CUL-DE-SAC SHALL TERMINATE WITH A GRADE OF NOT TO EXCEED THREE (3) PERCENT FOR THE LAST ONE HUNDRED (100) FEET THEREOF. THE CUL-DE-SAC SHALL HAVE ADEQUATE CURB, GUTTER, AND EASEMENT FOR DRAINAGE.



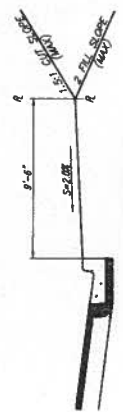
TEMPORARY TURNAROUND

NOTE:
WHEN TURNAROUND CANNOT BE CONSTRUCTED OUTSIDE OF THE SUBDIVISION, IT SHALL BE LOCATED ON A PORTION OF THE SUBDIVISION LOTS (AS INDICATED BY THE DASHED LINE) PLACING AN EASEMENT AN AMOUNT OF 10 FEET FROM THE SUBDIVISION BOUNDARY. THESE EASEMENTS WILL BE USED AT SUCH TIME THE STREET IS EXTENDED.



- NOTES:
1. TURNAROUND PORTION OF CUL-DE-SAC SHALL HAVE A GRADE NOT TO EXCEED 4%.
 2. MINIMUM GRADE IN CUL-DE-SAC SHALL TERMINATE WITH THE TURNAROUND (SEE SHEET #3).

CUL-DE-SAC



SECTION A-A

REQUIRED GRADING BETWEEN CURB AND PROPERTY LINE



Jon S. Jones
FEBRUARY 2010

1	INDICATE CURB NOTED TO SHEET 8, REMOVE THE LETTER 'C' IN NOTE 1	SCALE	N.T.S.
REV.	DATE	BY	CHK



CONSULTING ENGINEERS
1716 East 5000 South
South Ogden, Utah 84403 (801) 474-2787

TREHUNTON CITY CORPORATION
PUBLIC WORKS STANDARDS
CUL-DE-SAC DETAILS

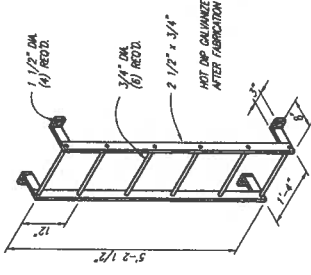
PIPE & FITTING SCHEDULE

NO.	DESCRIPTION	JOINT TYPE	6"	8"	10"
1	CAST FLANGED COUPLING ADAPTOR (2)	FL	6"	8"	10"
2	REDUCER (2)	FL	6"	8"	10"
3	REDUCER (2)	FL	6"	8"	10"
4	WALL SPOOL PIECE (2)	FL	4" x 4" x 4"	6" x 6" x 6"	8" x 8" x 8"
5	WALL SPOOL PIECE (2)	FL	4"	4"	4"
6	WALL SPOOL PIECE (2)	FL	4"	4"	4"
7	WALL SPOOL PIECE (2)	FL	4"	4"	4"
8	GATE VALVE (2)	FL	4"	4"	4"
9	PRESSURE REDUCTION VALVE (CLAYTON)	FL	4"	4"	4"
10	WIPPLE	FL	4"	4"	4"
11	CAST FLANGED COUPLING ADAPTER	FL	4"	4"	4"
12	SPOOL PIECE	FL	4"	4"	4"
13	PRESSURE REDUCTION VALVE (CLAYTON)	FL	2"	2 1/2"	2 1/2"
14	GALVANIZED PIPE (3)	FL	2"	2 1/2"	2 1/2"
15	GATE VALVE (2)	FL	2"	2 1/2"	2 1/2"
16	GALVANIZED UNION	FL	2"	2 1/2"	2 1/2"
17	BLIND FLANGE W/THR. CONNECTION (2)	FL	4" x 4"	4" x 4"	4" x 4"
18	ADJUSTABLE PIPE SUPPORT (CLAYTON)	FL	4" x 4"	4" x 4"	4" x 4"

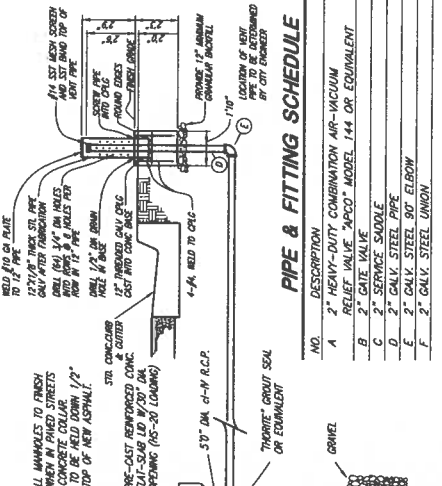
NOTE - STRUCTURE, PIPING & VALVE SIZES FOR P.R.V. STATIONS ON LINE
SIZES GREATER THAN 10" SHALL BE SPECIFIED BY THE CITY ENGINEER.

PIPE & FITTING SCHEDULE

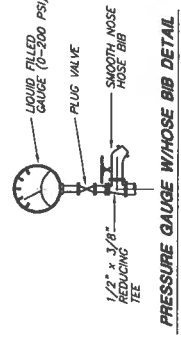
NO.	DESCRIPTION	FITTING
A	2" HEAVY-DUTY COMBINATION AIR-VACUUM RELIEF VALVE, "APCO" MODEL 144 OR EQUIVALENT	THR.
B	2" GATE VALVE	THR.
C	2" SERVICE SADDLE	THR.
D	2" GALV. STEEL PIPE	THR.
E	2" GALV. STEEL 90° ELBOW	THR.
F	2" GALV. STEEL UNION	THR.



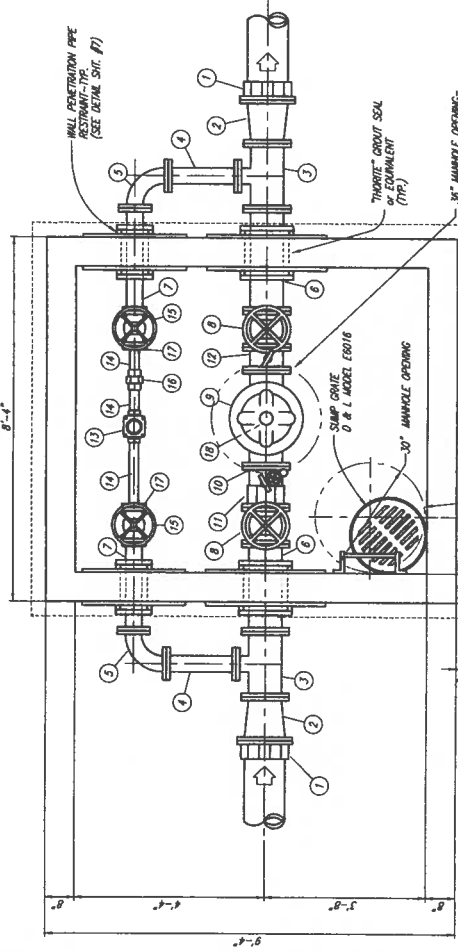
LADDER DETAIL



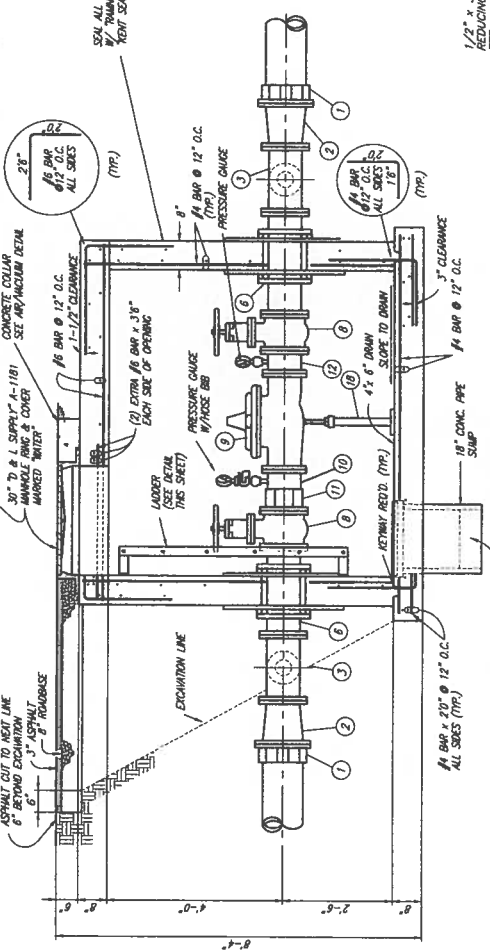
AIR/VACUUM RELIEF STATION



PRESSURE GAUGE W/HOSE BIB DETAIL



PLAN



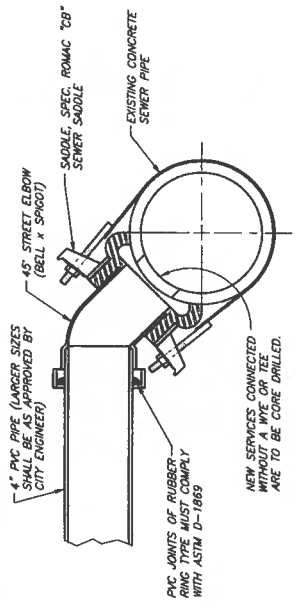
ELEVATION

PRESSURE REDUCTION STATION

TREMONTON CITY CORPORATION PUBLIC WORKS STANDARDS		SHEET 9 OF 11 SHEETS
JONES & ASSOCIATES CONSULTING ENGINEERS 1718 East 5600 South South Ogden, Utah 84403 (801) 478-7787		PROJECT NO. DRAWING NO. SHEET NO.
SCALE N.T.S.		DATE 11/10/09
DESIGNER CHECKED DATE		REV. DATE 11/10/09
APPROVED DATE FEBRUARY 2010		REV. DATE 11/10/09

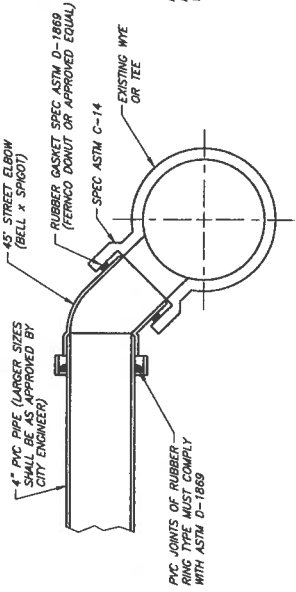


NOTE:
PVC PIPE FITTINGS ASTM D-3034
WITH A S.D.R. 35



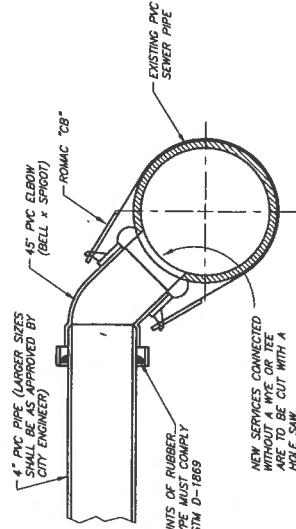
NEW SERVICES CONNECTED WITHOUT A WYE OR TEE ARE TO BE CORE DRILLED.

NOTE:
PVC PIPE FITTINGS ASTM D-3034
WITH A S.D.R. 35



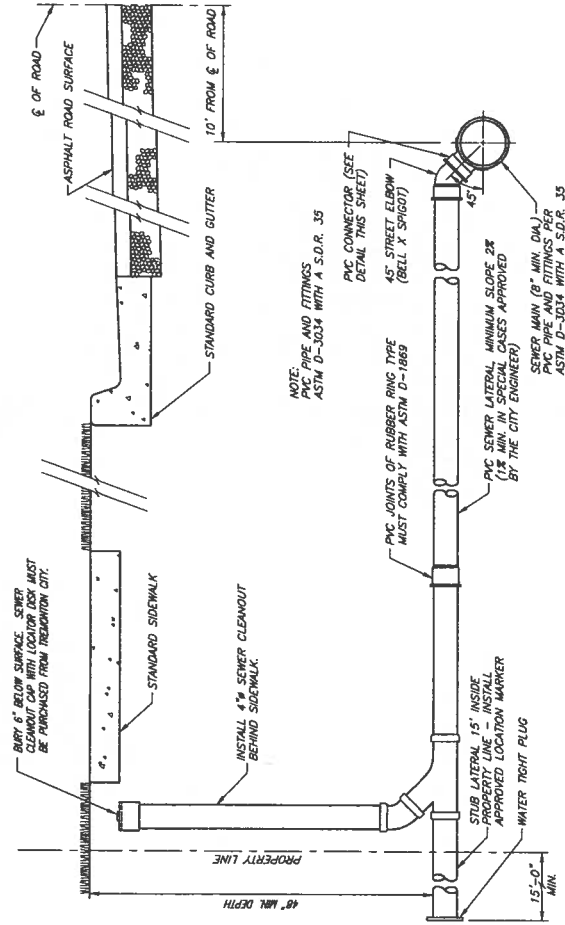
NEW SERVICES CONNECTED WITHOUT A WYE OR TEE ARE TO BE CUT WITH A HOLE SAW.

NOTE:
PVC PIPE FITTINGS ASTM D-3034
WITH A S.D.R. 35



NEW SERVICES CONNECTED WITHOUT A WYE OR TEE ARE TO BE CUT WITH A HOLE SAW.

TAPPING INTO EXISTING CONCRETE PIPE



NOTE:
PVC PIPE AND FITTINGS
ASTM D-3034 WITH A S.D.R. 35

BURY 6" BELOW SURFACE. SEWER CLEANOUT CAP WITH LOCATOR DISK MUST BE PURCHASED FROM TREMONTON CITY.

STANDARD SIDEWALK
INSTALL 4" SEWER CLEANOUT BEHIND SIDEWALK.

48" MIN. DEPTH

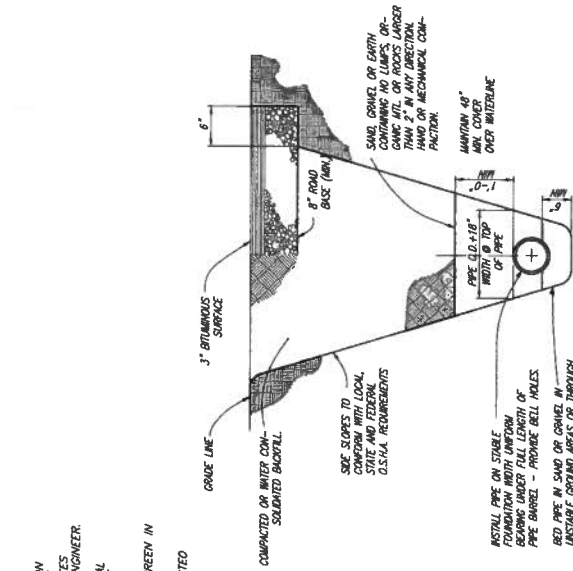
WATER TIGHT PLUG

TYPICAL SEWER LATERALS CONNECTION

CONNECTING INTO EXISTING WYE OR TEE

- NOTES:
1. ALL SANITARY SEWER LATERAL CONNECTIONS ON SEWER MAINS IN NEW SUBDIVISIONS SHALL BE MADE WITH IN LINE PRE-FORMED WYES OR TEES UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
 2. FLOWLINE ELEVATION OF LATERALS SHALL EQUAL THE INSIDE TOP OF PIPE ON MAINLINE AT THE CONNECTING POINT.
 3. SANITARY SEWER PIPES SHALL BE WHITE OR GREEN IN COLOR.
 4. ALL SANITARY SEWER LINES SHALL BE AIR TESTED AND INSPECTED BY MEANS OF VIDEO CAMERA WHEN CONSTRUCTED.

TAPPING INTO EXISTING PVC PIPE



INSTALL PIPE ON STABLE FOUNDATION WITH UNIFORM COVER ALL LENGTH OF PIPE BARREL - PROVIDE BELL HOLES.

RED PIPE IN SAND OR GRAVEL IN UNDESIRABLE GROUND AREAS OR THROUGH UNDESIRABLE MATERIAL SHALL BE COVERED WITH 6" MIN. SAND OR GRAVEL WHEN DIRECTED BY THE ENGINEER.

TYPICAL TRENCH SECTION



DATE: FEBRUARY 2010

NO.	DESCRIPTION	DATE	BY
1	ISSUED FOR PERMITS		
2	ISSUED FOR PERMITS		

SCALE: N.T.S.

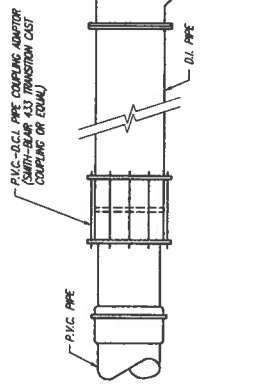
REVISION: CLE
DRAWN: JEB
CHECKED: CLE



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1716 East 8000 South
South Ogden, Utah 84403 (801) 476-8787

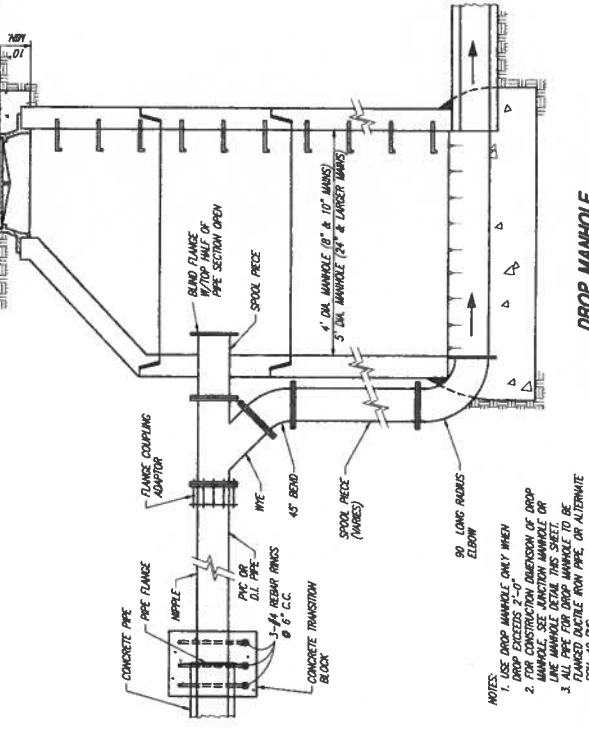
TREMONTON CITY CORPORATION
PUBLIC WORKS STANDARDS
SANITARY SEWER DETAILS

NOTE:
ALL SANITARY SEWER LINES SHALL BE
INSPECTED BY MEANS OF VIDEO CAMERA
& ANY TESTED WHEN CONSTRUCTED



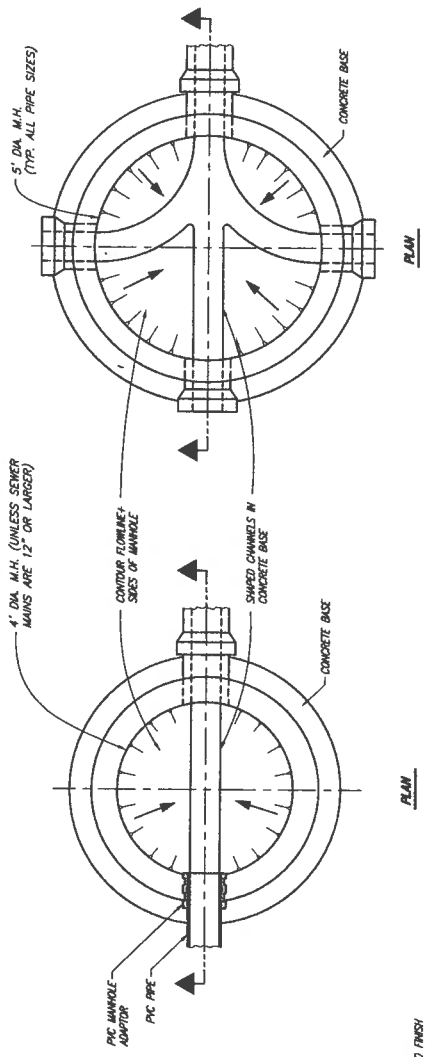
TYPICAL D.I. PIPE TO PVC PIPE CONNECTION

30" MANHOLE RING & COVER
TO & L. SUPPLY A-1181 OR
APPROVED EQUAL (MARKED SERIES)
RAISE ALL MANHOLES TO FINISH
GRADE WHEN IN PAVED STREETS
WITH A CONCRETE COLLAR
BEING HELD DOWN 1/2"
BELOW TOP OF NEW ASPHALT.



DROP MANHOLE
TYPICAL D.I. PIPE TO CONCRETE PIPE CONNECTION

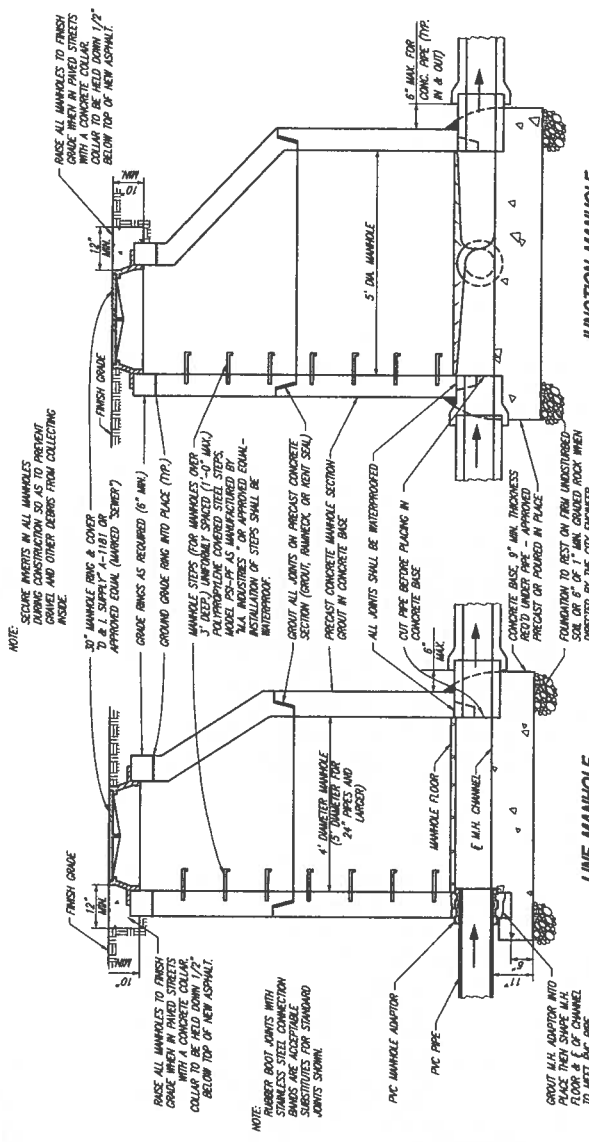
- NOTES:
1. USE DROP MANHOLE ONLY WHEN
DROP EXCEEDS 2'-0"
 2. MIN. CONSTRUCTION DIMENSION OF DROP
LINE MANHOLE DETAIL THIS SHEET.
 3. ALL PIPE FOR DROP MANHOLE TO BE
FLANGED DUCTILE IRON PIPE, OR ALTERNATE
SCHED. 40 PVC.



PLAN

PLAN

NOTE:
SECURE INVERTS IN ALL MANHOLES
DURING CONSTRUCTION SO AS TO PREVENT
GRADES AND OTHER DEGRS. FROM COLLECTING
BASE.



JUNCTION MANHOLE

LINE MANHOLE



PROJECT: *Jon S. Jones*
DATE: FEBRUARY, 2010

NO.	DATE	BY	CHK.	APP.
1	10/24/10	CLB	LDV	LDV

SCALE:
N.T.S.

DESIGNED BY: *Jon S. Jones*
DRAWN BY: *LDV*
CHECKED BY: *CLB*

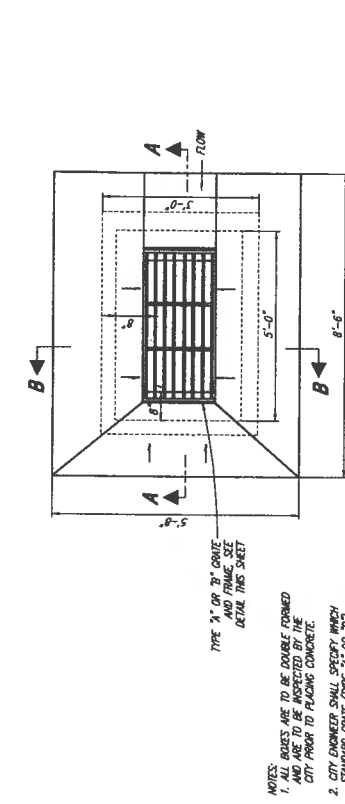


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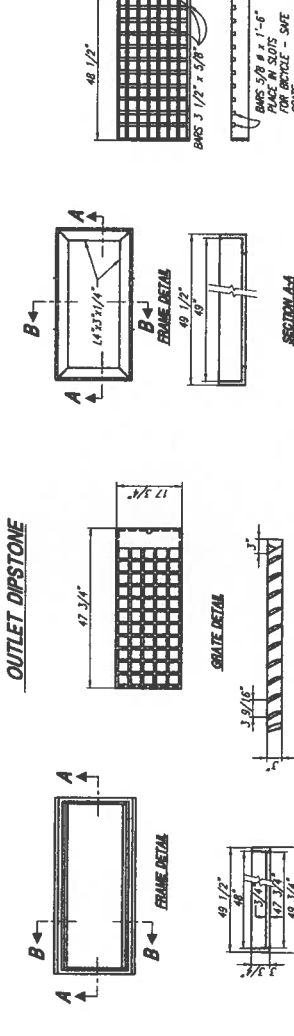
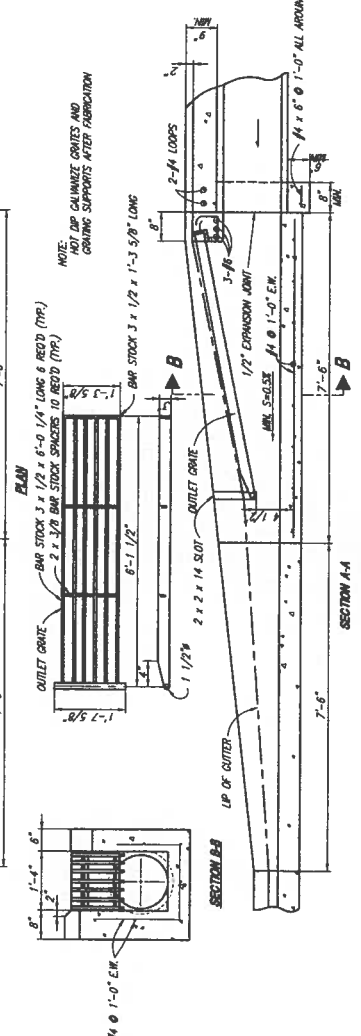
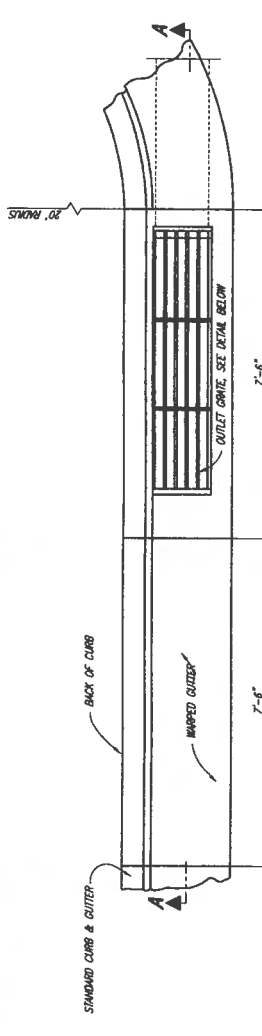
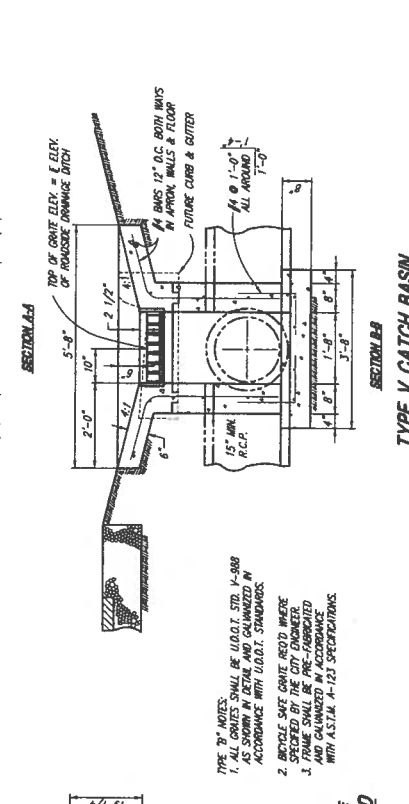
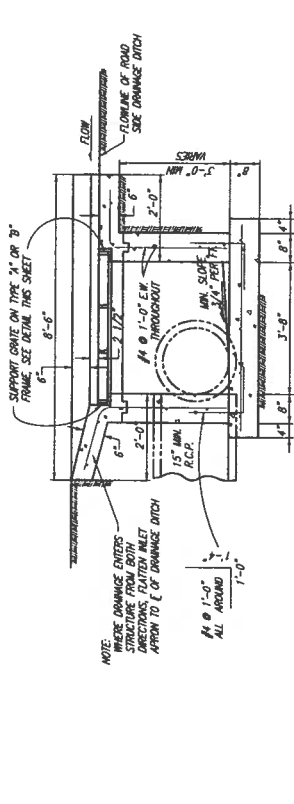
TREMONTON CITY CORPORATION
PUBLIC WORKS STANDARDS

SANITARY SEWER MANHOLE DETAILS

SHEET: **11**
OF 15 SHEETS



NOTE:
 1. ALL BODIES ARE TO BE DOUBLE FRODED AND ARE TO BE INSPECTED BY THE CITY PRIOR TO PLACING CONCRETE.
 2. CITY ENGINEERS SHALL SPECIFY WHICH STANDARD GRATE (TYPE 'A' OR 'B') IS TO BE INSTALLED IN EACH INDIVIDUAL CATCH BASIN STRUCTURE.



NOTE:
 1. GRATE AND FRAME SHALL BE AS MANUFACTURED BY D-4, SUPPLY 1-180L.
 2. ALTERNATE: FABRICATED STEEL GRATE AND FRAME AS MANUFACTURED BY F-16, WELDING MODEL 1-648 (GALVANIZED)



NOTE:
 1. GRATE AND FRAME SHALL BE U.O.O.T. STD. V-888 AS SHOWN IN DETAIL AND GALVANIZED IN ACCORDANCE WITH U.O.O.T. SPECIFICATIONS.
 2. BICYCLE SAFE GRATE REQ'D WHERE SPECIFIED BY THE CITY ENGINEER AND GALVANIZED IN ACCORDANCE WITH A.S.T.M. A-123 SPECIFICATIONS.

SHEET: **13**
OF SHEETS

**TRENTON CITY CORPORATION
PUBLIC WORKS STANDARDS**

TYPE V CATCH BASIN & OUTLET DIPSTONE DETAILS

CONSULTING ENGINEERS
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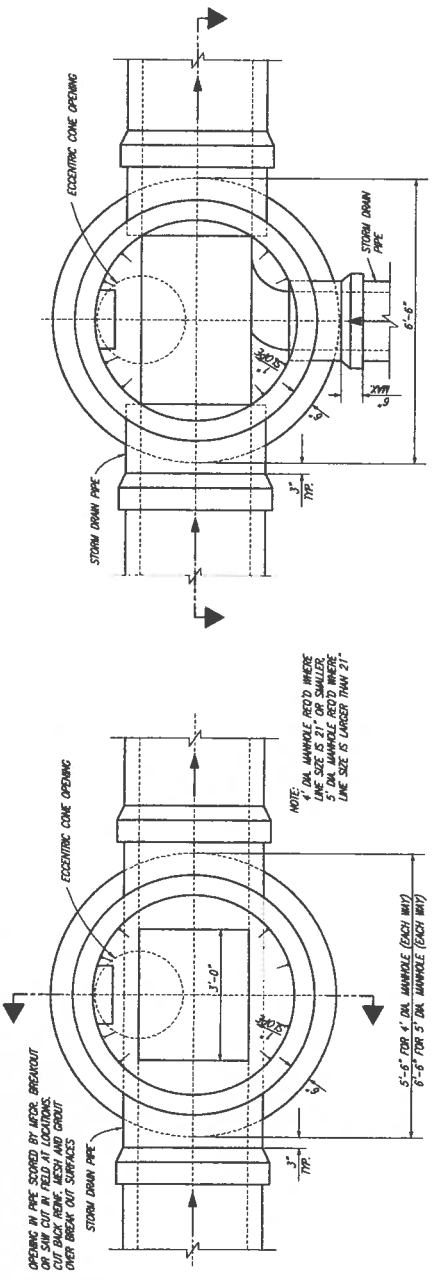
JONES & ASSOCIATES

REV.	DATE	APPROV.	DRAWN	CHKD.	C.D.B.

SCALE: N.T.S.

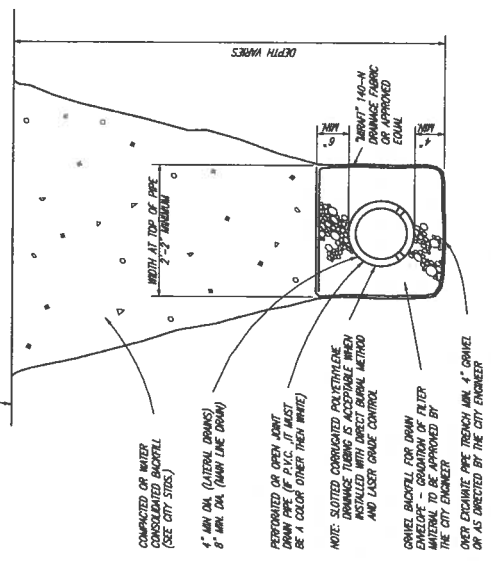
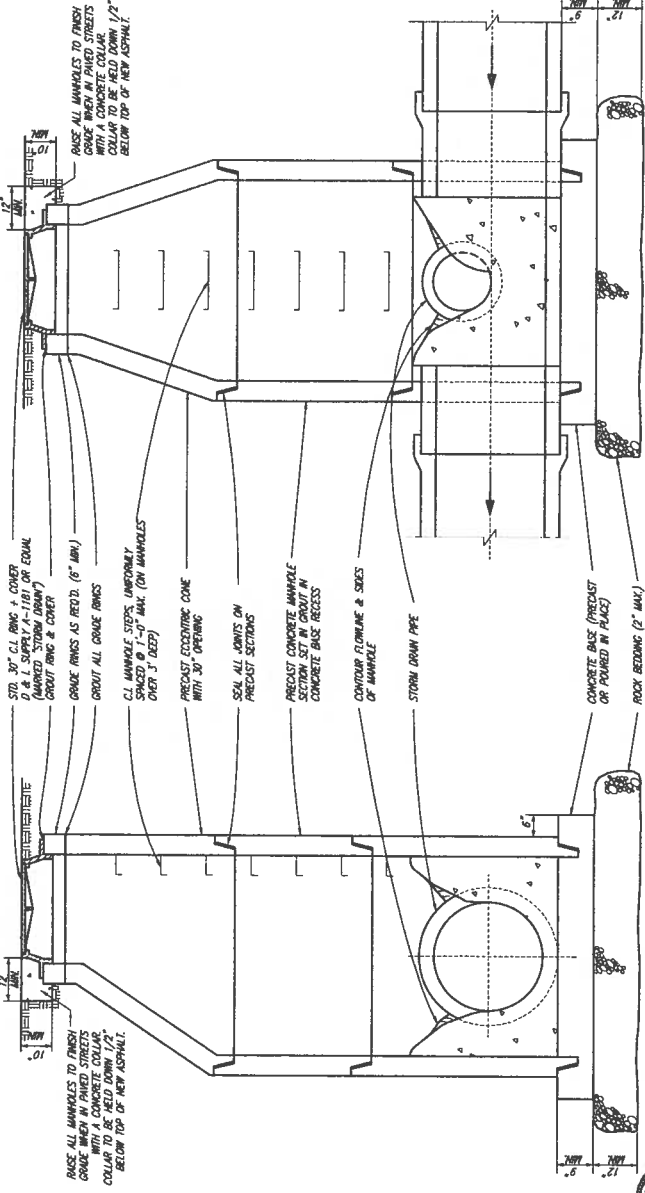
REVISED SHEET 13

FEBRUARY 2010



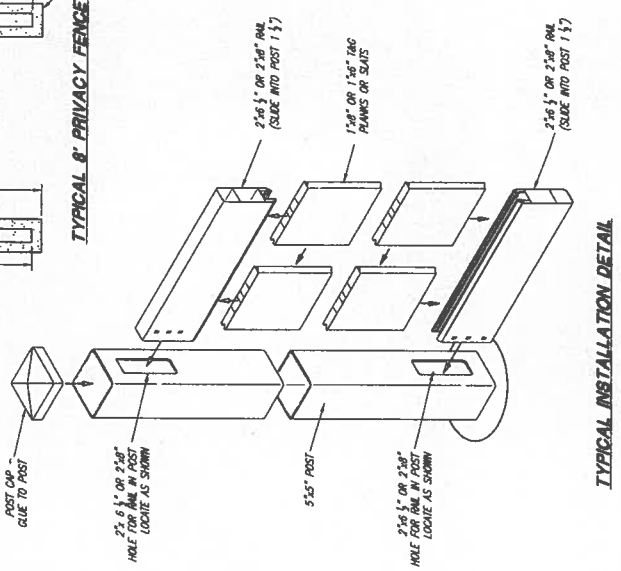
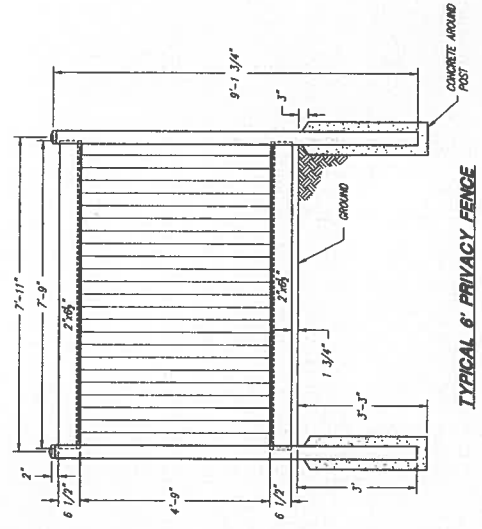
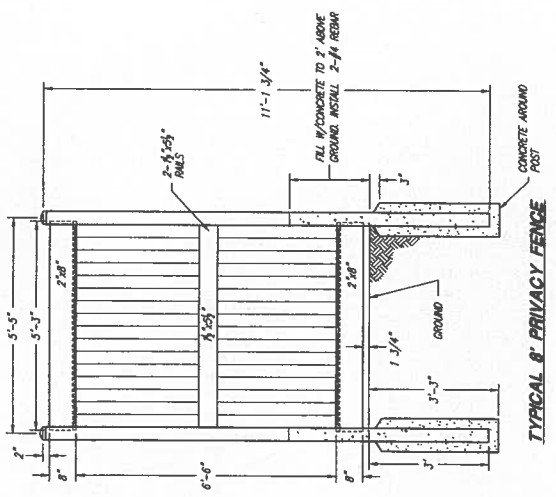
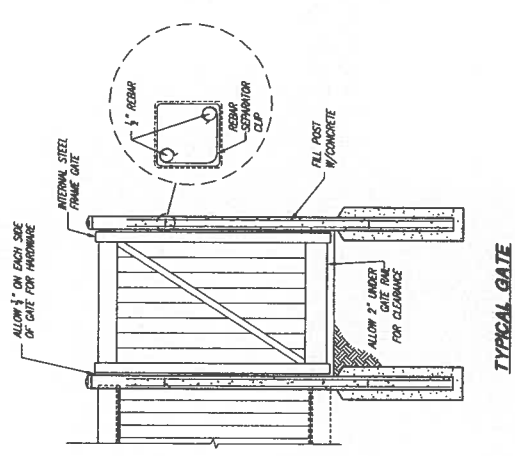
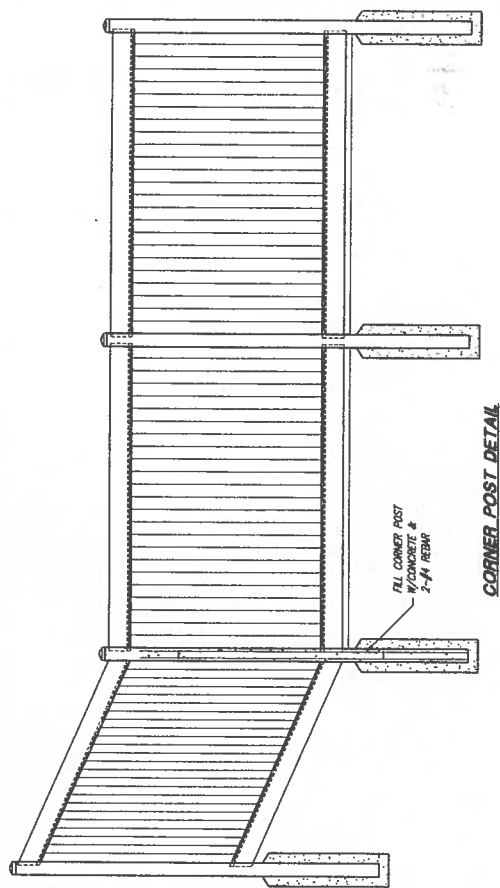
TYPICAL LINE MANHOLE

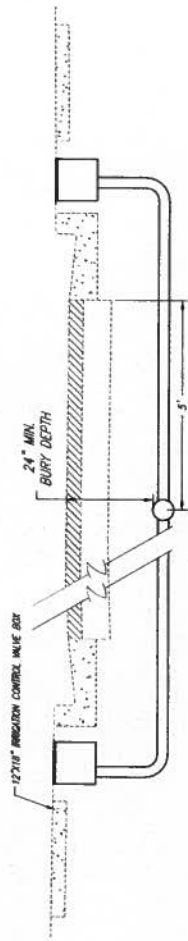
TYPICAL JUNCTION MANHOLE



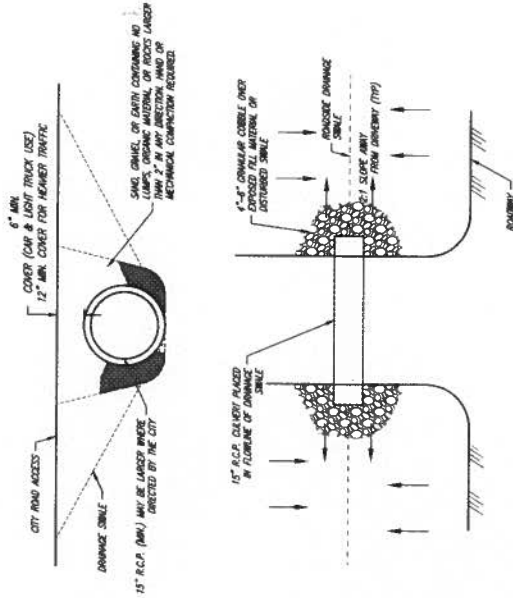
LAND DRAIN DETAIL

		FEBRUARY 2010 DATE
1. REVIEWED DATE	2. CHECKED DATE	3. DESIGNED DATE
4. APPROVED DATE	5. DRAWN DATE	6. CHECKED DATE
SCALE: N.T.S.		
INDEX TO SHEET 14, ADDED CONCRETE COLLAR		
CONSULTING ENGINEERS 1716 East 5600 South South Ogden, Utah 84403 (801) 476-9787		
TRENKLETON CITY CORPORATION PUBLIC WORKS STANDARDS		
SET: 14 OF 13 SHEETS		
STORM DRAIN M.H. & SUBSURFACE DRAIN DETAILS		

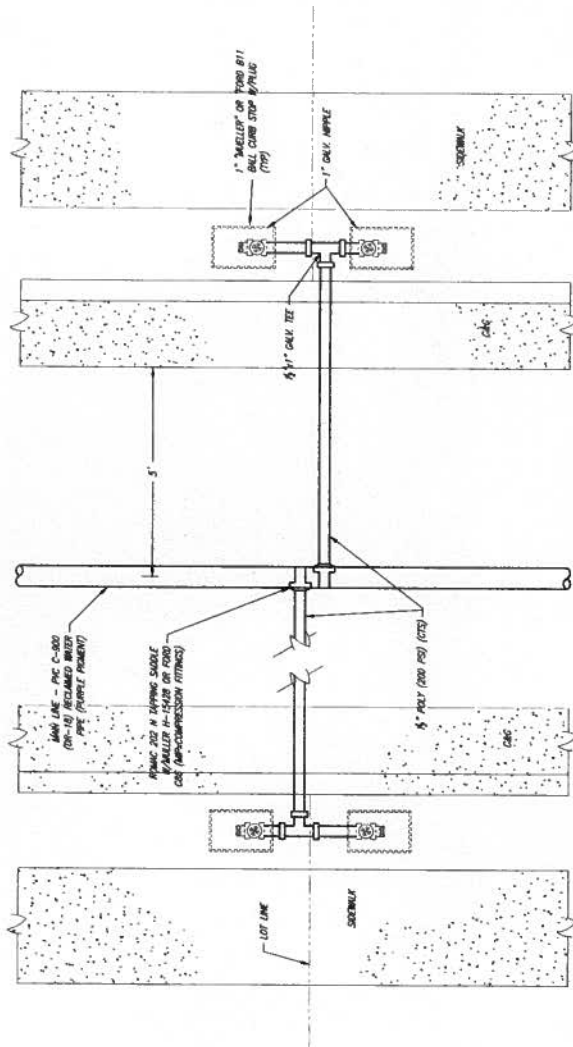




TYPICAL CROSS SECTION



DRIVEWAY CULVERT DETAIL



TYPICAL PLAN VIEW



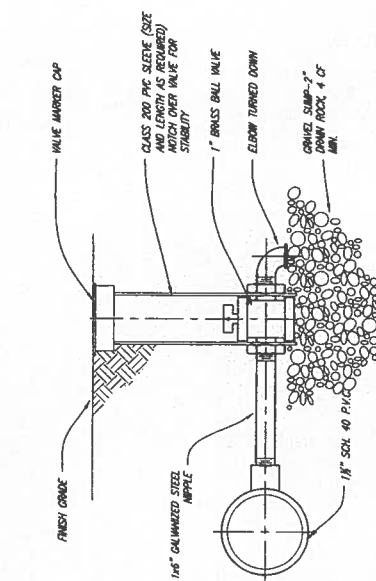
1. INCLUDE C.D.B. LINKED TO SHEET 18
 DATE: 1/20/10
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]
 DATE: 2/10/10
 PROJECT: [Signature]
 FEBRUARY 2010

SCALE: N/A
 DRAWING NO.: [Blank]
 PROJECT: [Blank]

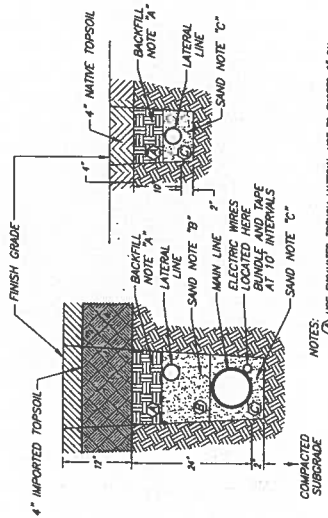


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TREMONTON CITY CORPORATION
 PUBLIC WORKS STANDARDS
 SECONDARY WATER & DRIVEWAY CULVERT DETAIL



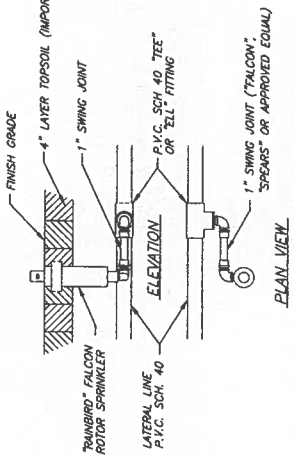
MANUAL DRAIN VALVE



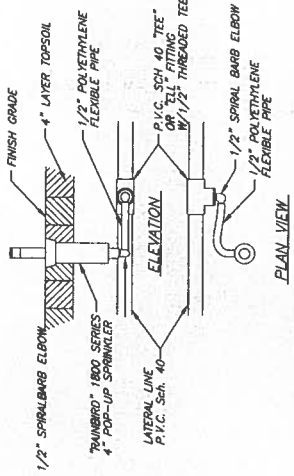
NOTES:
 (1) USE EXISTING TRENCH MATERIAL NOT TO EXCEED 3" DIA. HOLES.
 (2) IN CASES WHERE LATERAL LINE IS INSTALLED IN MAINLINE TRENCH USE SAND TO BACKFILL TRENCH SO THAT LATERAL LINE IS 14" BELOW FINISH GRADE & COVERED W/ SAND.
 (3) USE SAND TO PROVIDE 1/2" BED AND COVER ALL P.V.C. PIPES AND ELECTRICAL WIRES. IN CASES WHEN WHITE MATERIAL IS NOT ACCEPTABLE AS BACKFILL.

GEN. NOTE: LOCATE ALL TRENCHES 12" AWAY FROM BUILDINGS, SIDEWALKS, OR ANY HARD SURFACE. SETTLE ALL TRENCHES W/ WATER PRIOR TO GRADING AND FINISHING. TOPSOIL MAINLINE PLANNED TO BE SIDE BY SIDE WITH A MINIMUM DISTANCE OF 6" APART.

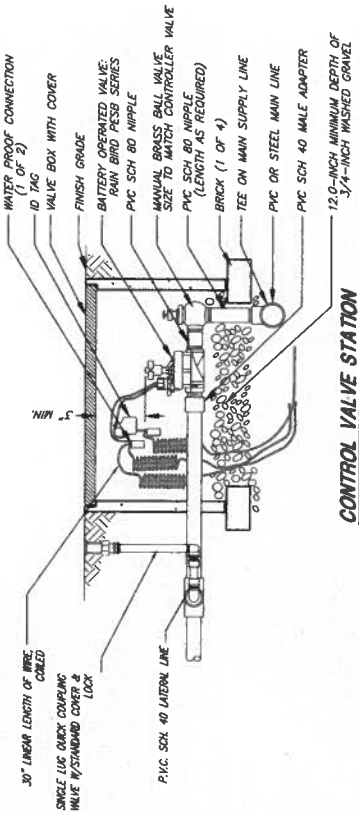
SPRINKLER TRENCH DETAIL



ROTOR HEAD CONNECTION DETAIL



1800 SERIES HEAD CONNECTION DETAIL

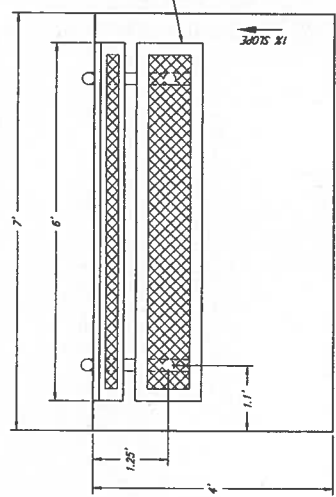


CONTROL VALVE STATION

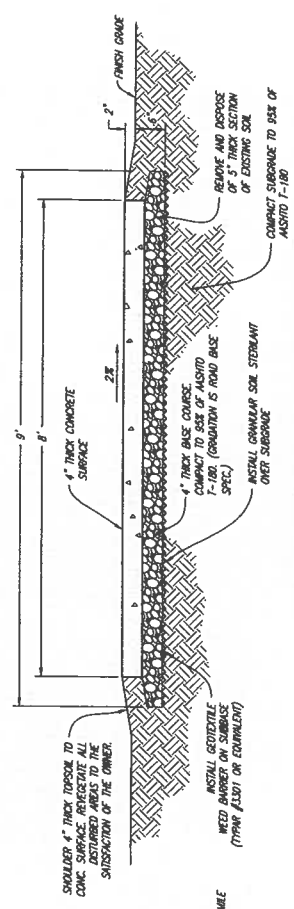
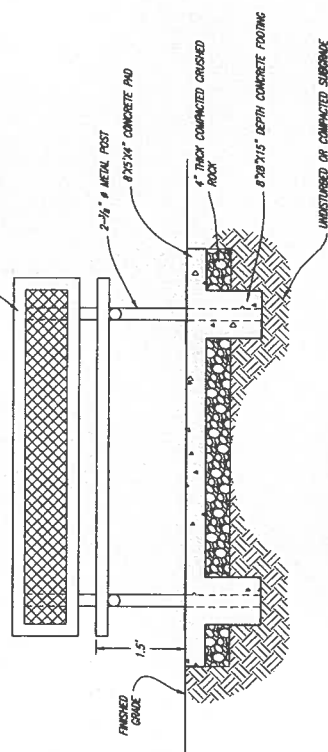
PROJECT NUMBER		SHEET	
DATE		18	
REV. DATE		OF 10 SHEETS	
TREMONTON CITY CORPORATION PUBLIC WORKS STANDARDS			
SPRINKLER DETAILS			
CONSULTING ENGINEERS		TREMONTON CITY CORPORATION	
1716 East 5600 South		PUBLIC WORKS STANDARDS	
South Ogden, Utah 84403 (801) 478-9797		SPRINKLER DETAILS	
DESIGNED BY	DATE	SCALE	NO.
DRAWN BY	MA		
CHECKED BY			
DATE			

TRAIL NOTES

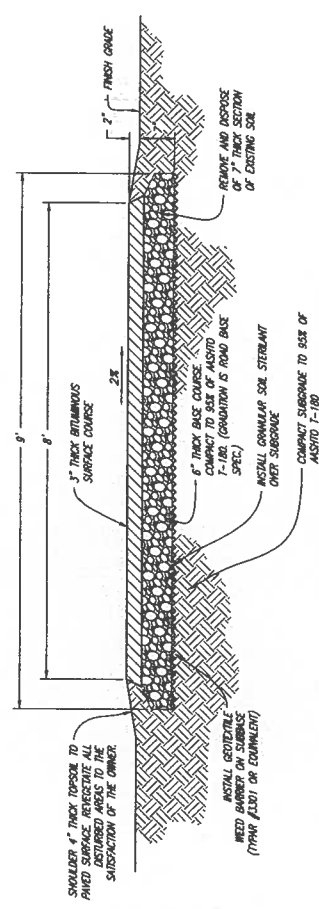
1. TRAILS SHOULD BE DESIGNED AND CONSTRUCTED AT GRADES LESS THAN 6% TO PROMOTE ACCESSIBLE USE.
2. GRADE AVERAGES OF LESS THAN 6% WILL PROVIDE THE MOST USER FRIENDLY EXPERIENCE AND ARE PREFERRED.
3. CRUSHED STONE SURFACE SHOULD BE MADE FROM CRUSHER FINES CRUSHED INTO IRREGULAR ANGULAR PARTICLES.
4. WHERE POSSIBLE A SLIGHT MEASURING ALIGNMENT SHOULD BE USED.
5. WHERE REQUIRED BENCHES SHOULD BE SPACED APPROXIMATELY EVERY 1/4 MILE.



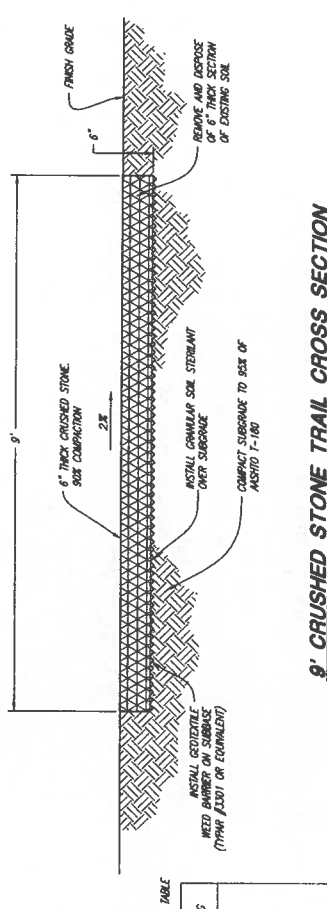
BENCH PLAN



8' CONCRETE TRAIL CROSS SECTION



8' ASPHALT TRAIL CROSS SECTION



8' CRUSHED STONE TRAIL CROSS SECTION

CRUSHED STONE GRAVITON TABLE

SIZE	% PASSING
3/8"	100%
1/4"	65%
3/16"	50%
1/8"	35%
1/16"	25%

SHEET **19** OF 13 SHEETS
TREMBLON CITY CORPORATION
PUBLIC WORKS STANDARDS
TRAIL DETAILS

CONSULTING ENGINEERS
 1716 East 5600 South
 South Ogden, Utah 84403 (801) 478-9757

J.A. JONES & ASSOCIATES
 DESIGNER: JER
 DRAWN: JER
 CHECKED: CLB

SCALE: N/A
 PROJECT NUMBER: _____ DATE: _____