

RICKY L. OVERSIBEET

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12/782

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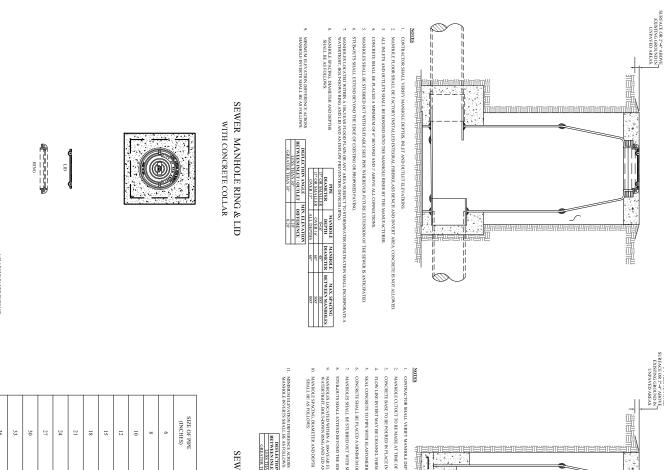
INDUSTRIAL PARK SEWER EXTENSION

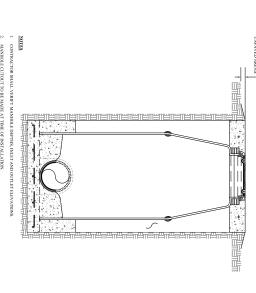
SHEET 2 PLAN AND PROFILE STATION 0+00 TO 11+00



ENGINEERING SERVICES DEPARTMENT

DRAWN BY:	RLO			٦
CHECKED BY:	XXX	SC		
HORIZ. SCALE:	1"=100'	SCALE		٥
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- MANIBLE COTOUT TO BE MADE ATTIME OF RISTALATION.

 CONCRETE BASE TO BE POJEKED IN FACE IN TREACTI AND MANIBLE TO BE INSTALLED BY INSERTING INTO CONCRETE BASE TO BE POJEKED IN FACE IN TREACTION CONCRETE FLOW OF PIPE SECTION WITH TOP CUT OUT.

 SEAL CONCRETE TO PIPE WITH ELASTOMERIC GARSHET SEAL.
- CONCRETE SHALL BE PLACED A MINIMEN OF P BEYOND AND 1 ABOVE ALL CONNECTIONS.

 MANHOLES SHALL BE STUBBED OUT WITH SUITABLE SIZE PIPE WHEREVER FUTURE EXTENSION OF THE SEWER IS ANTICIPATED.

 STUB-OUTS SHALL EXTEND BEYOND THE EDGE OF EXISTING OR PROPOSED PAYING.
- MANHOLES LOCATED WITHIN A 100-YEAR FLOOD PLAIN OR ANY AREA SUBJECT TO STORMWATER INFILTRATION SHALL INCORPORATE WATERTIGHT, BOLT-DOWN RING AND LID AND AN INFLOW PREVENTION DEVISES (IPDs).



SEWER MAIN PIPE SLOPES

MINIMUM SLOPE (%)

MAXIMUM SLOPE (%)

8.40 12.35

0.20 0.25 0.33 0.50

4.88 6.23

0.11 0.15

2.83 3.62

2.30

1.93

1

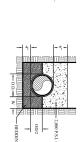
BEDDING MATERIAL SHALL BE FROM AN APPROVED BEDDING MATERIAL SOURCE PER THE LIST OF APPROVED SUTHECTY ENGINEER.
TRENCH SPOLIS ARE NOT ACCEPTABLE FOR "EMBEDMENT ZONE MATERIAL".

BEDDING MATERIAL FOR THE INSTALLATION OF WATER AND SEVER MAINS SHALL BE CRUSHED STOKE OR BEG GRAVEL THAT WILL BEMAIN FIRM AND NOT PERMIT DISPLACEISMY OF THE PIPE EITHER DURING PIPE LAYING OR BACKFILLING OR FOLLOWING THE COMPLETION OF CONSTRUCTION.

CONCRETE ENCASEMENT

GRAVEL EMBEDMENT





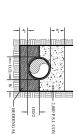
FIBERGLASS MANHOLE - TYPE A

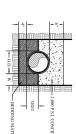
FIBERGLASS MANHOLE - TYPE B

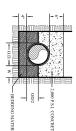
PIPE EMBEDMENT ZONE WATER AND SEWER MAINS

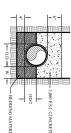
UTILITY TRENCH SECTION

ASPHALT PAVEMENT



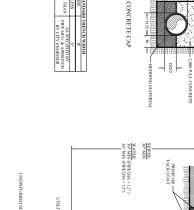














2" LAYER
TYPE D, TXDOT HOT MIX OR
TYPE D, TXDOT HOT MIX - COLD LAID
(MUST HAVE PRIOR CITY APPROVAL)

NOTES: ASPHALT:

FLEXIBLE BASE PER CITY OF SAN ANGELO SPECIFICATIONS COMPACTED IN 6° HORIZONTAL LAYERS. MINIMUM DENSITY 95% MODIFIED PROCTOR TXDOT MC-30 OR AE-P ASPHALT AT THE RATE OF 0.25 TO 0.35 SHALL MEET THE REQUIREMENTS OF TXDOT ITEM 300 "ASPH 'ASPHALTS, OILS, AND EMULSIONS"

BACKFILL ZON

WATER OR SEWER MAINS AND SERVICES WITH LESS THAN 30° OF COVER AT ANY LOCATION SHALL REQUIRE C.O.S.A. APPROVAL PRIOR TO CONSTRUCTION.

WATER AND SEWER MAINS UTILITY CROSSING

I. THE CONTRACTOR SHALL HELD VERHY THE HORLOWTAL AND VERTICAL LOCATIONS OF ALL EXISTING PUBLIC AND PRIVATE UTILITIES THAT HAVE OR WANY HAVE ANY PETECT ON HER PROPOSED UNIFORMED WHEN COMMENCES. THE USURALLATION OF ALL GRAVITY FLOW PRES. SHALL BEGIN AT THE OUTFALL OR CONNECTION TO THE EXISTING EXISTING AND PROCEED LIFEREAM. IF ANY DISCORDED WESTERMAN IF ANY DISCORDED WESTERMAN FLOW FROM THE PLAN IS FOUND. THE CONTRACTOR IS TO NOTHY THE CITY OF SAN. ANGELOE SENNIES HENGES EVEN SED PRAYTHEST BEFORE PROCEEDING FURTHER, LOCATION OF EXISTING AND PROPOSED UTILITIES SHOWN ARE MERCHY SCHEMATIC.

- 3. PAVEMENT CUTS SHALL BE REPAIRED ACCORDING TO CITY OF SAN ANGELO UTILITY TRENCH REPAIR SPECIFICATIONS.

- 8.CONTRACTOR CONTRACTOR SHALL RE-SEED OR RE-SOD ALL DISTURBED AREAS TO MATCH EXISTING CONDITIONS OR AS SHOWN ON THE PLANS AND DETAILS, ALL DISTURBED BERMUDA GRASS AREAS SHALL BE RE-SODDED.
- 9. SHALL PROTECT ALL TREES FROM CONSTRUCTION ACTIVITIES, PRIOR TO TRIMMING OR REMOVAL OF TREES, CITY AND PROPERTY OWNER APPROVAL IS REQUIRED.

- 2. PIPE EMBEDMENT SHALL BE PER C.O.S.A. STANDARD DETAILS.
- 4. WHEN SEWER LINES ARE INSTALLED WITH LESS THAN 9 FEET SEPARATION FROM ANY PART OF THE WATER SYSTEM, THE INSTALLATION SHALL BE IN ACCORDANCE WITH 30 TAC 217.53
- 5. ALL SERVICE LINES TO BE FIELD LOCATED BY THE CONTRACTOR. COORDINATE LOCATION WITH OWNER, TRACY MANNING @ 1226 KENWOOD DR. (325-234-5325).
- 6. CONTRACTOR SHALL PROTECT, REPAIR AND/OR REPLACE ALL PUBLIC AND PRIVATE IRRIGATION, ELECTRICAL, COMMUNICATION, GAS AND ALL OTHER UTILITY FEATURES ENCOUNTERED.
- 7.CONTRACTOR IS ADVISED THAT S MAINTAINED AS NECESSARY TO PR CONSTRUCTION ACTIVITIES, HIGH I PEDESTRIANS, CHILDREN AND/OR I I SECURITY AND SAFETY FENCING SHALL BE PROVIDED AND PROTECT THE PUBLIC AND THE PUBLIC'S PROPERTY FROM HRISK AREAS ARE THOSE AREAS FREQUENTLY UTILIZED BY & LIVESTOCK.
- 10. PAVEMENT CUTS SHALL BE BACKFILLED AND A TEMPORARY ASPHALT PATCH PLACED TO STABILIZE THE CUT WITHIN 48 HOURS OF ROAD OPENING.







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HORIZ. SCALE:	1"=100'	SCALE
VERT. SCALE:	1"=10'	IN FEET
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DATE:	XX/XX/XX	



The Seal appearing on this document was authorozed by Ricky L. Overstreet, P.E. 121782 on: October 3, 2016

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CANNA PIRE SHALL BE A MANDAL PELEVITHE SHOULT BE NOW. THE CORESE PER COMPRANDE THE CANKETED OR WILLIED OF CONTROL DE THE CONTROL THE CORESE PER COMPRANDE CONTROL DE SHALL BE SLALED WITH WATESTORT FOR ANAMERICATION ANAMERICATION WATESTORT SLALE BLOOF COMPACTED BY THE CORE OF THE PLACED AT MANDALM PER SHALL BE SLALED WITH WATESTORT FOR THE PROMETER PROMETER THE DESCRIPTION OF THE PLACED AT MANDALM PETERVALS AND WITHIN 2 FROM EACH BELL AND END OF COSNOC CROSSION STILLANDS NOT CONSESSION THIS DESCRIPTION OF THE SHALL BE ACCOMPLISHED IN ACCORDANCE WITH COSA DISSON STANDARDS NOT THE OUTTIES 2 THE OWNER.

ALL WATER-SEWER CROSSING SITUATIONS WHERE A NEW MAIN WILL CROSS WITHIN 2 VERTICALLY OF AN EXISTING MAIN SHALL BE ENCASED AS SHOWN ABOVE.

2. WATER TIGHT, BOLL-ZOWN SPECIFED RING (V-1420) & LID (V-1430) SIJALL BE EAST JORDAN BRON WORKS OR APPROVED EQUAL-WITH AN REHAW REPOSITION DEVICE (BPD).

3. MANIOLE BING A LID SIGALL BE MACHINE FITTED WITH TWO (2) PICK BLAS SLOTIS.

4. MANIOLE BING A PLO SOCIETE SIGALL BE CAST BRON, MEETING THE LATEST REVISION OF ASTIM A-48 CLASS 39 WITH A HIGHWOOD TO THE ARTHOUGH STORY AND THE CAST BY A STORY AND THE ARTHOUGH STORY AND THE ARTHOUGH SOCIETY AND THE ARTHOUGH SOCIETY

ASTM A-48 CLASS 30 WITH A HIGHWAY

MANHOLES LOCATED WITHIN UNDEVELOPED AREAS, AGRICULTURAL FIELDS, OR ANY AREA SUBJECT TO BEING OVERGROWN OR OTHERWISE OBSCURED SHALL INCORPORATE A BOLLARD AT EACH CORNER OF THE CONCRETE COLLAR, FOUR (4) TOTAL.

MANHOLE RING (V-1420) & LID (V-1430) : ANGELO* CUSTOM LETTERING.

* FOR PIPES LARGER THAN 39 INCHES IN DIAMETER, THE SLOPE IS DETERMINED BY MANNING'S FORMULA TO MAINTAIN A VELOCITY GREATER THAN 20 FEET PER SECOND AND LESS THAN 10.0 FEET PER SECOND WHEN FLOWING FULL.

0.055 0.06 0.08 0.09

1.43 1.65

0.045 0.05

1.12 1.26

0.04

1.01

SHEET 3 DETAILS