

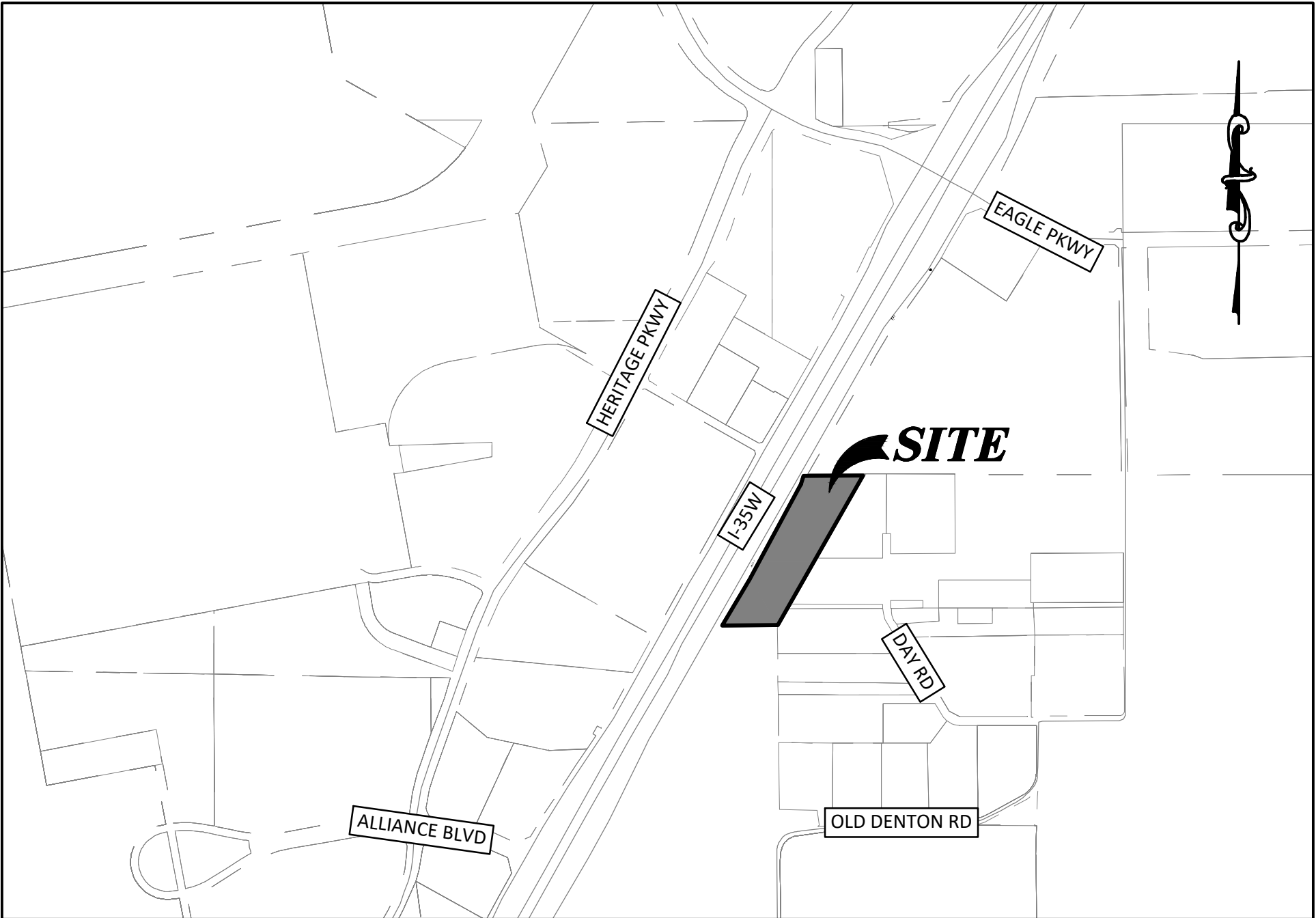


THE CITY OF FORT WORTH, TEXAS
PLANS FOR THE CONSTRUCTION OF
WATER & SEWER
IMPROVEMENTS
TO SERVE
TOLIVER RV DEALERSHIP AT ALLIANCE

BETSY PRICE
MAYOR

DAVID COOKE
CITY MANAGER

CHRISTOPHER P. HARDER, P.E.
DIRECTOR, WATER DEPARTMENT



LOCATION MAP
N.T.S.

MAPSCO NO. 7H & 8E
COUNCIL DISTRICT 7

JUNE 2021

OWNED/DEVELOPED BY:
BAILEY TOLIVER RV & TRUCK COUNTRY
3546 EAST I-20 SERVICE ROAD
STANTON, TX 79782

PREPARED BY:
DUNAWAY ASSOCIATES L.P.
TX REG. F-1114
550 BAILEY AVENUE STE. 400
FORT WORTH, TEXAS 76107
PHONE: (817) 335-1121

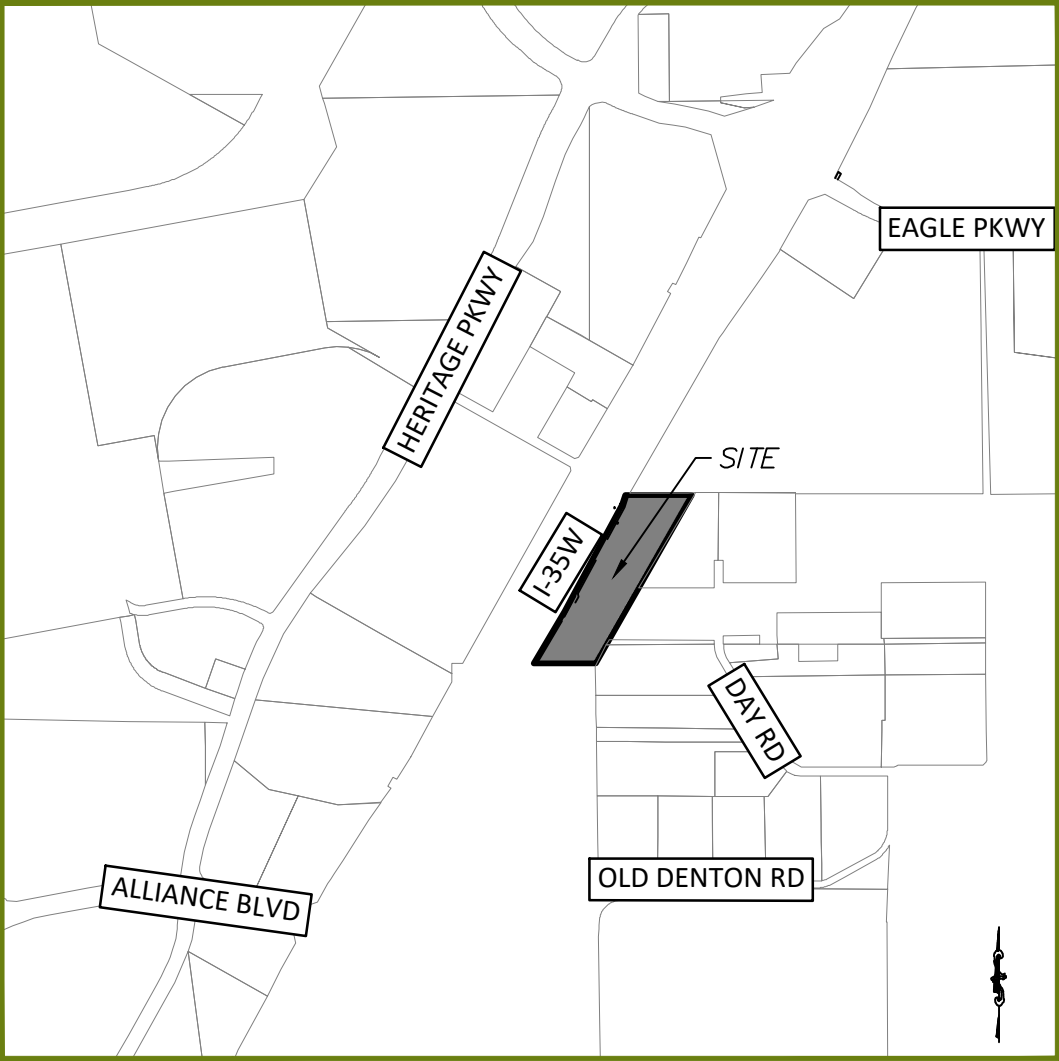
SHEET INDEX	
SHEET NO.	DESCRIPTION
WATER AND SANITARY SEWER IMPROVEMENTS	
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23	TRAFFIC CONTROL DETAILS

Victor V. Tornero Jr., P.E. Jun 9, 2021
Victor V. Tornero Jr., P.E. (Jun 9, 2021 17:30 CDT)

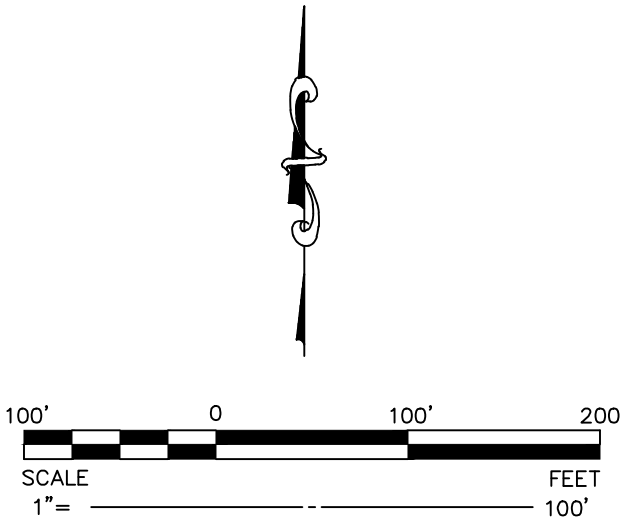
DIRECTOR'S DESIGNEE FOR CONSTRUCTION DATE:
PLAN APPROVAL
RESOLUTION NO. 01-10-2020


Patrick W. Winkley (Jun 9, 2021 13:52 CDT) Jun 9, 2021

REVIEWED: DATE:
PROJECT MANAGER



VICINITY MAP
NOT TO SCALE





FORT WORTH

CITY PLAN COMMISSION
CITY OF FORT WORTH, TEXAS

THIS PLAT IS VALID ONLY IF RECORDED WITHIN
NINETY (90) DAYS AFTER DATE OF APPROVAL.

Plat Approval Date:

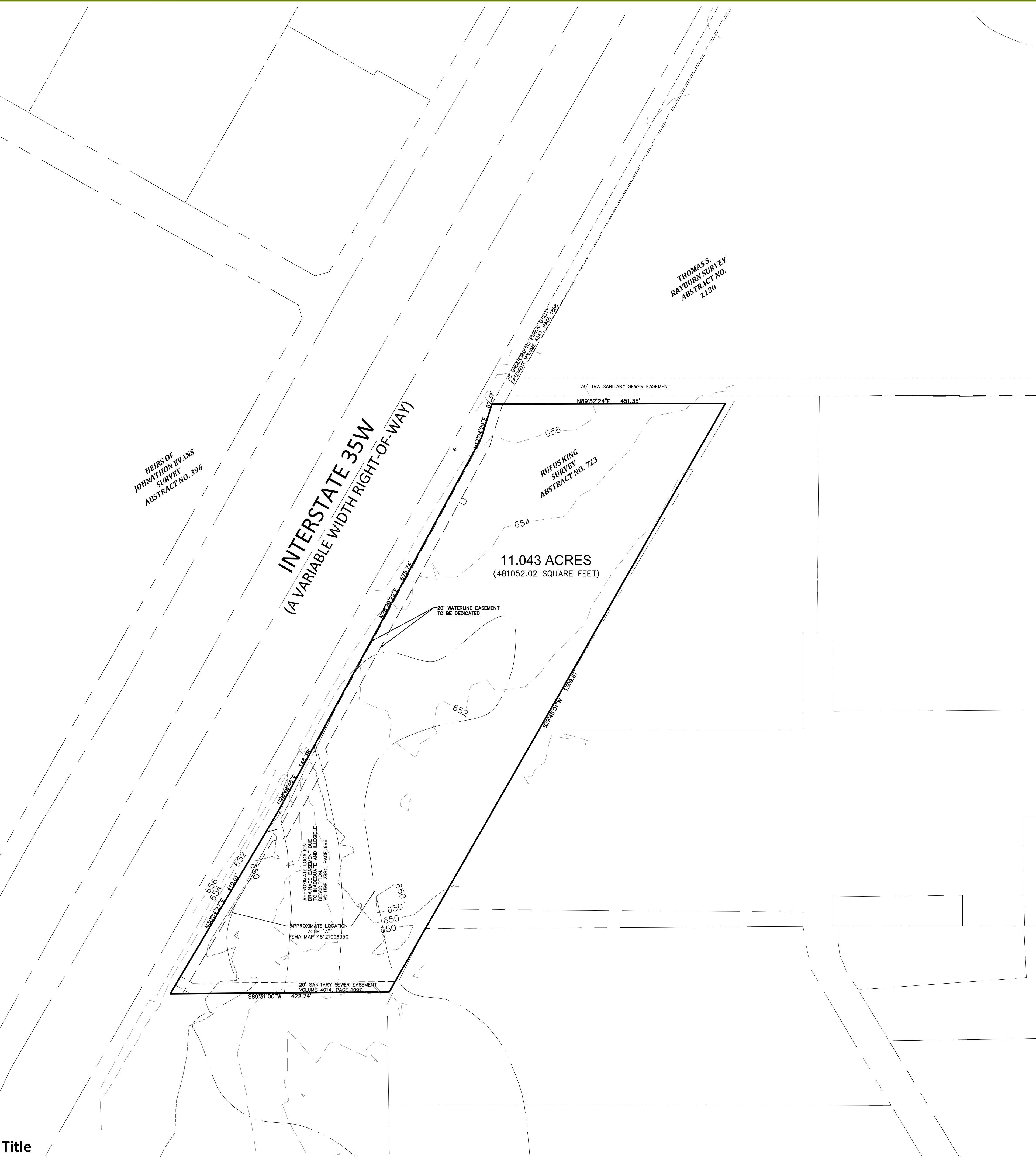
By: _____

By: _____



DUNAWAY

550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107
Tel: 817.335.1121
FIRM REGISTRATION 10098100



METES AND BOUNDS DESCRIPTION

BEING ALL THAT CERTAIN TRACT OF LAND SITUATED IN THE RUFUS KING SURVEY, ABSTRACT NUMBER 723, AND THE JONATHAN EVANS SURVEY, ABSTRACT NUMBER 396, DENTON COUNTY, TEXAS AND BEING THE REMAINDER OF A CALLED FIRST TRACT DESCRIBED IN THE DEED TO C. B. KENDALL, JR. AND WALLS STEPHENS, AS RECORDED IN VOLUME 6085, PAGE 645, REAL PROPERTY RECORDS, DENTON COUNTY, TEXAS (R.P.R.D.C.T.), AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A CONCRETE TXDOT HIGHWAY MONUMENT FOUND IN THE SOUTHEAST RIGHT-OF-WAY LINE OF INTERSTATE HIGHWAY 35W DESCRIBED IN THE DEED TO THE STATE OF TEXAS, AS RECORDED IN VOLUME 2884, PAGE 696, (R.P.R.D.C.T.) AND BEING THE SOUTHWEST CORNER OF SAID REMAINDER TRACT IN THE NORTH LINE OF A TRACT OF LAND DESCRIBED IN THE DEED TO MOUNT OLIVET CEMETERY ASSOCIATION, AS RECORDED IN VOLUME 1403, PAGE 164, (R.P.R.D.C.T.);

THENCE ALONG THE COMMON LINE OF SAID INTERSTATE HIGHWAY AND SAID REMAINDER TRACT THE FOLLOWING CALLS AND DISTANCES:

NORTH 30 DEGREES 34 MINUTES 27 SECONDS EAST, A DISTANCE OF 410.01 FEET TO A CONCRETE TXDOT HIGHWAY MONUMENT FOUND;

NORTH 28 DEGREES 48 MINUTES 46 SECONDS EAST, A DISTANCE OF 146.38 FEET TO A CONCRETE TXDOT HIGHWAY MONUMENT FOUND;

NORTH 28 DEGREES 29 MINUTES 29 SECONDS EAST, A DISTANCE OF 675.74 FEET TO A CONCRETE TXDOT HIGHWAY MONUMENT FOUND;

NORTH 17 DEGREES 04 MINUTES 29 SECONDS EAST, 67.37 FEET TO A CONCRETE HIGHWAY MONUMENT FOR THE NORTHWEST CORNER OF SAID REMAINDER TRACT AND BEING THE SOUTHWEST CORNER OF THE REMAINDER OF A CALLED PARCEL NO. 3 DESCRIBED IN THE DEED TO ALL INVESTMENT, L.P., A TEXAS LIMITED PARTNERSHIP, AS RECORDED IN DOCUMENT NUMBER 98-R0117441, (R.P.R.D.C.T.);

THENCE NORTH 89 DEGREES 52 MINUTES 24 SECONDS EAST WITH SAID COMMON LINE A DISTANCE OF 451.35 FEET TO A 5/8" CAPPED IRON ROD SET STAMPED "SHIELD ENGINEERING" SET FOR THE NORTHEAST CORNER OF THE TRACT BEING DESCRIBED HEREIN;

THENCE SOUTH 29 DEGREES 45 MINUTES 01 SECONDS WEST WITH THE EAST LINE THEREOF A DISTANCE OF 1309.61 FEET TO A 5/8" CAPPED IRON ROD SET STAMPED "SHIELD ENGINEERING" SET FOR THE SOUTHEAST CORNER OF THE TRACT BEING DESCRIBED HEREIN AND THE NORTHEAST CORNER OF SAID CEMETERY TRACT;

THENCE SOUTH 89 DEGREES 31 MINUTES 00 SECONDS WEST WITH SAID COMMON LINE A DISTANCE OF 422.74 FEET TO THE PLACE OF BEGINNING AND ENCLOSING 11.043 ACRES (481,052.02 SQUARE FEET) OF LAND.

- NOTES:
- The basis of the bearings shown hereon is the Texas State Plane Coordinate System, North Central Zone, based upon GPS measurements, according to the North Texas Cooperative VRS Network.
 - Selling a portion of this addition by metes and bounds is a violation of city subdivision ordinance and state platting statutes and is subject to fines and withholding of utilities and building permits.

Basis of bearings in the Texas State Plane Coordinate System, North Central Zone based on GPS observations via the Trimble VS network for north Texas (NAD 83). Vertical datum based on GPS observations via the Trimble VS network for north Texas (NAVD 88). City of Fort Worth Monument

Site Benchmarks:
City of Fort Worth BM 9148
City of Fort Worth monument located on I-35 North bound ser. road 0.65+ mile North of Alliance Blvd. and 125' south of the projected center line of Avion Road from the W. in the E. CL of the N bound serv. rd. in the center of a 10' inlet 1' behind the face of curb.
Published Elevation = 657.199'

LAND USE TABLE		
Total Gross Acreage	11.043	Acres
Right-of-Way Dedication	0.000	Acres
Net Acreage	11.043	Acres
Number of Residential Lots	0	
Number Non-Residential Lots	0	
Non-Residential Acreage	0	
Private Park Acreage	0	
Public Park Acreage	0	

HORIZONTAL CONTROL PLAN
BEING SITUATED IN THE RUFUS KING SURVEY, ABSTRACT NO. 723 AND THE HEIRS OF JONATHAN EVANS SURVEY, ABSTRACT NO. 396, AND BEING A REMAINDER PORTION OF A CALLED 146.232 ACRE TRACT RECORDED IN INSTRUMENT VOLUME 6085, PAGE 645, R.P.R.D.C.T.
CITY OF FORT WORTH,
DENTON COUNTY, TEXAS

DIVISION 01 – GENERAL REQUIREMENTS

GENERAL:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PUBLIC OR PRIVATE, PRIOR TO EXCAVATION. THE INFORMATION AND DATA SHOWN WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNERS OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE CITY AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION OR DATA, FOR LOCATING ALL UNDERGROUND FACILITIES, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION AND FOR THE SAFETY AND PROTECTION THEREOF AND REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THIS WORK SHALL BE CONSIDERED AS A SUBSIDIARY ITEM OF WORK, THE COST OF WHICH SHALL BE INCLUDED IN THE PRICE BID IN THE PROPOSAL FOR VARIOUS BID ITEMS. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED OWNERS (UTILITY COMPANIES) OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
 - NOTIFY TEXAS 811 (1-800-DIG-TESS OR WWW.TEXAS811.ORG) TO LOCATE EXISTING UTILITIES PRIOR TO CONSTRUCTION.
 - CAUTION! BURIED ELECTRIC LINES MAY EXIST ALONG THIS PROJECT. CONTACT ELECTRICAL PROVIDERS 48 HOURS PRIOR TO EXCAVATION :
 - ONCOR 888-313-6862
 - CAUTION! BURIED GAS LINES MAY EXIST ALONG THIS PROJECT. CONTACT ATMOS 48 HOURS PRIOR TO EXCAVATION, AND WITHIN TWO (2) HOURS OF ENCOUNTERING A GAS LINE
 - ATMOS 800-692-4694
 - CAUTION! BURIED COMMUNICATION CABLES MAY EXIST ALONG THIS PROJECT. CONTACT COMMUNICATION COMPANIES 48 HOURS PRIOR TO EXCAVATION:
 - AT&T 800-395-0440
 - CHARTER COMMUNICATIONS 817-246-5530
 - CAUTION! WHEN DOING WORK WITHIN 200 FEET OF ANY SIGNALIZED INTERSECTION, THE CONTRACTOR SHALL NOTIFY TRAFFIC MANAGEMENT DIVISION OF CITY OF FORT WORTH T/PW, 72 HOURS PRIOR TO EXCAVATION AT (817 392-7738. THE CONTRACTOR SHALL PROTECT EXISTING SIGNAL HARDWARE, GROUND BOXES, DETECTION LOOPS, AND UNDERGROUND CONDUIT AT SIGNALIZED INTERSECTIONS. ANY DAMAGES AT SIGNALIZED INTERSECTIONS SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR. THE CONTRACTOR SHALL CONTACT THE CITY AT 817-392-8100 TO PERFORM CONDUIT LINE LOCATES AT SIGNALIZED INTERSECTIONS 72 HOURS PRIOR TO COMMENCING WORK AT THE INTERSECTION.
 - THE CONTRACTOR SHALL NOTIFY THE CITY OF FORT WORTH PROJECT MANAGER 48 HOURS PRIOR TO THE START OF ANY EXCAVATION:
 - PATRICK BUCKLEY 817-392-2443
- CONTRACTOR'S PERSONNEL SHALL HAVE IDENTIFYING CLOTHING, HATS OR BADGES AT ALL TIMES WHICH IDENTIFY THE CONTRACTOR'S NAME, LOGO OR COMPANY.
- PROTECT CONCRETE CURB AND GUTTER, DRIVEWAYS, AND SIDEWALKS THAT ARE NOT DESIGNATED FOR REMOVAL. REMOVAL AND REPLACEMENT OF THESE ITEMS SHALL BE AS DESIGNATED IN THE DRAWINGS.

DIVISION 32 – EXTERIOR IMPROVEMENTS

GENERAL:

- AT LOCATIONS WHERE THE CURB AND GUTTER ARE TO BE REPLACED, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR THE RE-ESTABLISHMENT OF EXISTING STREET AND GUTTER GRADES. ESTABLISHMENT OF GRADES SHALL BE CONSIDERED AS A SUBSIDIARY ITEM OF WORK, THE COST OF WHICH SHALL BE INCLUDED IN THE PRICE BID IN THE PROPOSAL FOR VARIOUS BID ITEMS.
- ALL DRIVEWAYS, WHICH ARE OPEN CUT, SHALL HAVE AT LEAST A TEMPORARY DRIVING SURFACE AT THE END OF EACH DAY. THE TEMPORARY SURFACE SHALL BE CONSIDERED AS A SUBSIDIARY ITEM OF WORK. THE COST OF WHICH SHALL BE INCLUDED IN THE PRICE BID IN THE PROPOSAL FOR VARIOUS BID ITEMS.

- CURB RAMP FLARE SLOPES SHALL NOT BE STEEPER THAN 10% (10:1) AS MEASURED ALONG BACK OF CURB.
- MAXIMUM ALLOWABLE CROSS SLOPE ON SIDEWALK AND CURB RAMP SURFACES IS 2%.
- THE MINIMUM WIDTH OF SIDEWALKS AND CURB RAMPS SHALL BE 4 FEET.
- LANDINGS SHALL BE PROVIDED AT THE TOP OF CURB RAMPS. THE LANDING CLEAR LENGTH SHALL BE 5 FEET MINIMUM FROM THE END OF RAMP. THE LANDING CLEAR WIDTH SHALL BE AT LEAST AS WIDE AS THE CURB RAMP, EXCLUDING FLARES. THE LANDING SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.
- IN ALTERATIONS WHERE THERE IS NO LANDING AT THE TOP OF THE CURB RAMP, CURB RAMP FLARES SHALL BE PROVIDED AND SHALL NOT BE STEEPER THAN 8.3% (12:1).
- WHERE TURNING IS REQUIRED, MANEUVERING SPACE AT THE TOP AND BOTTOM OF CURB RAMPS SHALL BE 5 FEET BY 5 FEET MINIMUM. THE SPACE AT THE BOTTOM SHALL BE WHOLLY CONTAINED WITHIN THE CROSSWALK MARKINGS AND SHALL NOT PROJECT INTO VEHICULAR TRAFFIC LANES.
- CURB RAMPS WITH RETURNED CURBS MAY BE USED ONLY WHERE PEDESTRIANS WOULD NORMALLY WALK ACROSS THE RAMP, EITHER BECAUSE THE ADJACENT SURFACE IS PLANTING OR OTHER NON-WALKING SURFACE OR BECAUSE THE SIDE APPROACH IS SUBSTANTIALLY OBSTRUCTED.
- WHERE CURB RAMPS ARE PROVIDED, CROSSWALK MARKINGS SHALL BE REQUIRED AND RAMPS SHALL BE ALIGNED WITH THE CROSSWALK.
- COUNTER SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE CURB RAMP SHALL NOT BE STEEPER THAN 5% (20:1) IN ANY DIRECTION.

DIVISION 33 – UTILITIES

GENERAL:

- FOR UTILITY WORK WITHIN UTILITY EASEMENTS, ONCE PIPE OR APPURTENANCES HAVE BEEN INSTALLED OR REHABILITATED, IMMEDIATELY COMMENCE TEMPORARY SURFACE RESTORATION. COMPLETE SURFACE RESTORATION TO THE OWNER'S SATISFACTION WITHIN SEVEN (7) DAYS OF WORK FINISHING ON-SITE. FAILURE TO MAINTAIN SURFACE RESTORATION, AS NOTED ABOVE, MAY RESULT IN SUSPENSION OF WORK UNTIL RESTORATION IS COMPLETE.
- EXISTING VERTICAL DEFLECTIONS AND PIPE SLOPES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND HAVE NOT BEEN FIELD VERIFIED, UNLESS OTHERWISE NOTED. RIM ELEVATIONS, FLOW LINES, AND HORIZONTAL LOCATIONS OF EXISTING MANHOLES WERE DETERMINED FROM FIELD SURVEY. IF FIELD CONDITIONS VARY FROM THOSE SHOWN ON DRAWINGS CONTRACTOR SHALL NOTIFY CITY.
- MAINTAIN ALL EXISTING WATER AND SEWER CONNECTIONS TO CUSTOMERS IN WORKING ORDER AT ALL TIMES, EXCEPT FOR BRIEF INTERRUPTIONS IN SERVICE FOR WATER AND SEWER SERVICES TO BE REINSTATED. IN NO CASE SHALL SERVICES BE ALLOWED TO REMAIN OUT OF SERVICE OVERNIGHT.
- ESTABLISH AND MAINTAIN A TRENCH SAFETY SYSTEM IN ACCORDANCE WITH THE EXCAVATION SAFETY PLAN AND FEDERAL, STATE OR LOCAL SAFETY REQUIREMENTS.
- PROVIDE AND FOLLOW APPROVED CONFINED SPACE ENTRY PROGRAM IN ACCORDANCE WITH OSHA REQUIREMENTS. CONFINED SPACES SHALL INCLUDE MANHOLES AND ALL OTHER CONFINED SPACES IN ACCORDANCE WITH OSHA'S PERMIT REQUIRED FOR CONFINED SPACES.
- ONLY CITY PREQUALIFIED CONTRACTORS, BY APPROPRIATE WATER DEPARTMENT WORK CATEGORY, SHALL BE ALLOWED TO ADJUST VALVE BOXES, MANHOLES, RING & COVERS, ETC.
- CONTRACTOR SHALL MATCH EXISTING GRADE WHEN COVERING (UTILITY/WATER/SEWER/GAS) LINES TO ENSURE THEY DO NOT POND, ALTER, OR CHANNELIZE ANY STORMWATER RUNOFF.

SANITARY SEWER:

- VERIFY THAT ALL CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE FOR SANITARY SEWER ONLY. NOTIFY CITY OF ANY DISCOVERED ILLICIT CONNECTIONS.
- THE CONTRACTOR SHALL BE LIABLE FOR ALL DAMAGES TO PROPERTIES, HOMES, AND BASEMENTS FROM BACKUP, WHICH MAY RESULT DURING THE INSTALLATION OF NEW PIPE AND/OR ABANDONMENT OF EXISTING PIPE. THE CONTRACTOR WILL BE ALLOWED TO OPEN CLEAN OUTS WHERE AVAILABLE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL CLEAN UP ASSOCIATED WITH OPENING CLEAN OUTS.

WATER:

- PROVIDE THRUST RESTRAINT BY MEANS OF RESTRAINING JOINTS AT FITTINGS AND CONCRETE BLOCKING. WHEN SPECIFICALLY INDICATED ON THE DRAWINGS, PROVIDE THRUST RESTRAINT AT DESIGNATED JOINTS BEYOND THE FITTINGS. EACH METHOD SHALL BE CAPABLE OF THRUST RESTRAINT INDEPENDENT OF THE OTHER SYSTEM. THE CONTRACTOR SHALL REFER TO CITY STANDARD DETAILS FOR AREA REQUIRED TO INSTALL CONCRETE BLOCKING.
- ALL DUCTILE IRON MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED TO PIPE USING RETAINER GLANDS.
- PROPOSED WATER MAINS SHALL HAVE A MINIMUM COVER OF 48-INCHES COVER ABOVE THE TOP OF PIPE, UNLESS SHOWN OTHERWISE ON THE DRAWINGS OR DETAILS.
- ALL WATER SERVICES SHALL BE INSTALLED ABOVE STORM SEWERS, EXCEPT WHERE SHOWN OTHERWISE IN THE DRAWINGS.
- ELEVATION ADJUSTMENT AT CONNECTIONS MAY BE MADE WITH BENDS, OFFSETS, OR JOINT DEFLECTIONS. JOINT DEFLECTIONS SHALL NOT EXCEED FIFTY PERCENT (50%) OF MANUFACTURER'S RECOMMENDATIONS.
- TEMPORARY PRESSURE PLUGS REQUIRED FOR SEQUENCING OF CONSTRUCTION AND TESTING OF PROPOSED WATER LINES SHALL BE CONSIDERED SUBSIDIARY TO THE WORK AND SHALL BE INCLUDED IN THE PRICE BID IN THE PROPOSAL FOR VARIOUS BID ITEMS.

DIVISION 34 – TRANSPORTATION

TRAFFIC CONTROL:

- THE CONTRACTOR SHALL SUBMIT A WORK SCHEDULE, TRAFFIC CONTROL PLAN, AND ACQUIRE A DEVELOPMENT PERMIT FROM DEVELOPMENT DEPARTMENT, AT 200 TEXAS STREET. CONTACT CHUCK MCLURE (817-392-7219).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PEDESTRIANS AND MOTORISTS IN THE AREA OF THE TRAFFIC SIGNAL CONSTRUCTION SITE.
- ROADS AND STREETS SHALL BE KEPT OPEN TO TRAFFIC AT ALL TIMES. CONTRACTOR SHALL ARRANGE CONSTRUCTION SO AS TO CLOSE ONLY ONE LANE OF A ROADWAY AT A TIME.
- ALL CONSTRUCTION OPERATIONS SHALL BE CONDUCTED TO PROVIDE MINIMAL INTERFERENCE TO TRAFFIC. ALL TRAFFIC SIGNAL EQUIPMENT INSTALLATIONS SHALL BE ARRANGED SO AS TO PERMIT CONTINUOUS MOVEMENT OF TRAFFIC IN ALL DIRECTIONS AT ALL TIMES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SIGNAGE NECESSARY DURING CONSTRUCTION.
- UNLESS OTHERWISE NOTED, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT SIGNAL INDICATIONS AND TIMING ARE ADJUSTED AND MAINTAINED TO ENSURE SAFETY IN WORK ZONE AT ALL TIMES.
- ANY TRAFFIC SIGNAL MODIFICATIONS DURING CONSTRUCTION ARE SUBSIDIARY TO TRAFFIC CONTROL PLAN (TCP) PAY ITEM.
- ANY TRAFFIC SIGNAL MODIFICATIONS SHOULD BE IN COMPLIANCE WITH THE LATEST VERSION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND THE CITY OF FORT WORTH STANDARDS.
- THE CONTRACTOR SHALL SUBMIT ANY PROPOSED TRAFFIC SIGNAL MODIFICATIONS TO THE TRAFFIC SIGNAL SECTION FOR THEIR APPROVAL TEN (10) DAYS PRIOR TO ANY CHANGES.

EROSION CONTROL

EROSION CONTROL MEASURES MAY ONLY BE PLACED IN FRONT OF INLETS, IN CHANNELS, DRAINAGE WAYS OR BORROW DITCHES AT RISK OF CONTRACTOR. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOOD DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE. AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGE WAYS, AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREDGE OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.

LEGEND

	PROPERTY BOUNDARY
	ADJOINER
	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	EXISTING CURB
	EXISTING FENCE
	EXISTING COMMUNICATION
	EXISTING WATER LINE
	EXISTING IRRIGATION
	EXISTING SANITARY SEWER
	EXISTING GAS LINE
	EXISTING FIBER-OPTIC CABLE
	EXISTING TELEPHONE LINE
	EXISTING OVERHEAD ELECTRIC
	EXISTING UNDERGROUND ELECTRIC
	EXISTING STORM DRAIN
	EXISTING SIGN
	EXISTING GUY WIRE
	EXISTING LIGHT POLE
	EXISTING UTILITY POLE
	EXISTING IRRIGATION VALVE
	EXISTING FIRE HYDRANT
	EXISTING WATER METER
	EXISTING WATER MANHOLE
	EXISTING WATER VALVE
	EXISTING SANITARY SEWER MANHOLE
	EXISTING CLEANOUT
	EXISTING STORM DRAIN MANHOLE
	EXISTING STORM DRAIN INLET
	EXISTING CABLE BOX
	EXISTING GAS MANHOLE
	EXISTING GAS VALVE
	EXISTING GAS METER
	EXISTING TREE
	PROPOSED STORM DRAIN
	PROPOSED WATER LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED OVERHEAD ELECTRIC
	PROPOSED UNDERGROUND ELECTRIC
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED SANITARY SEWER CLEANOUT
	PROPOSED WATER METER
	PROPOSED FIRE HYDRANT
	PROPOSED GATE VALVE
	PROPOSED PLUG
	PROPOSED REDUCER
	PROPOSED REMOVAL
	PROPOSED ABANDONMENT

REVISIONS		
NO.	DATE	DESCRIPTION

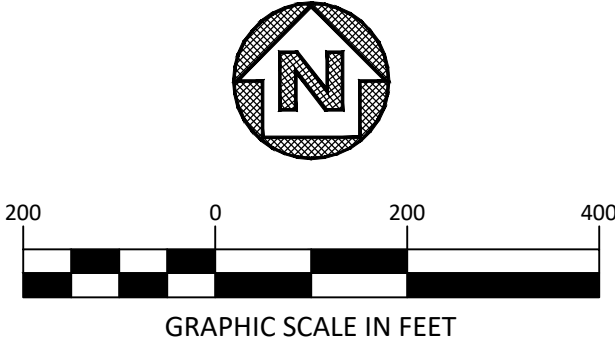
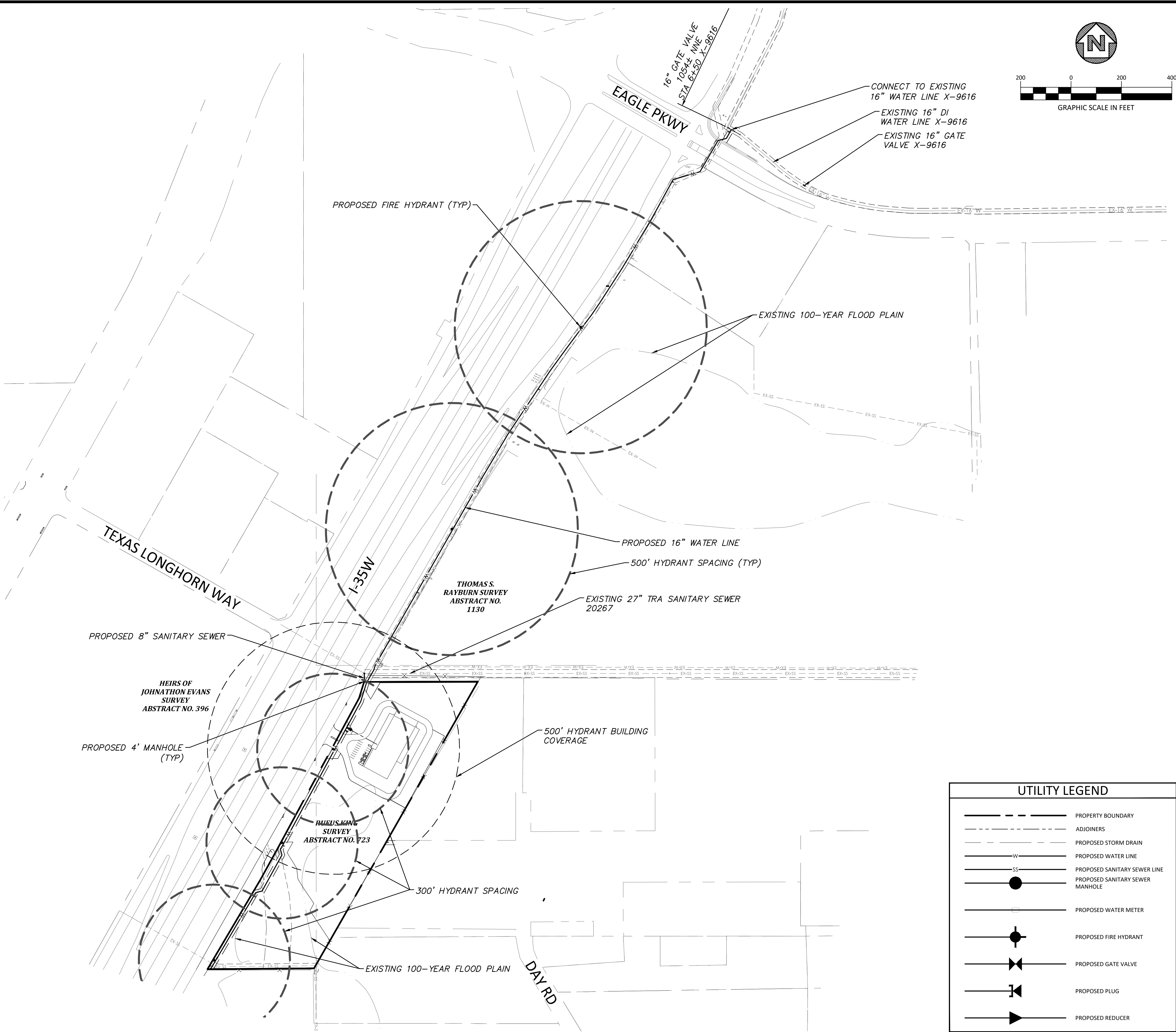


TOLIVER RV DEALERSHIP

GENERAL NOTES

DESIGNED: KIB		PROJECT NO: 103285	SHEET: 3
DRAWN: KIB		30114-0200431-103285-007685	
CHECKED: NJP	DATE: June 21		

FULL PATH: G:\projects\42001\065600\065601\001\Civil\Drawings\plan\Sheet\01\BULK UTILITY LAYOUT
FILENAME: UTILITY LAYOUT.dwg
PLOTTER BY: Katherine Bruner
PLOTTER MODEL: HP DesignJet 500, 2021
PLOT DATE: 8/10/2021
PLOTTER BY: Katherine Bruner
PLOTTER MODEL: HP DesignJet 500, 2021
PLOT DATE: 8/10/2021
PLOTTER BY: Katherine Bruner
PLOTTER MODEL: HP DesignJet 500, 2021
PLOT DATE: 8/10/2021



REVISIONS		
NO.	DATE	DESCRIPTION

WARNING TO CONTRACTOR:
CALL 1-800-344-8377 (DIG-TESS) OR OTHER UTILITY LOCATING SERVICES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. DUNAWAY ASSOC., L.P. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS OF UTILITIES ON DRAWINGS.

CONTRACTOR ADVISORY:
THE CONTRACTOR, AND HIS AGENTS (SUB-CONTRACTOR, ENGINEER, SURVEYOR, ETC.) ARE COMPLETELY RESPONSIBLE FOR THE VERIFICATION OF THE ACCURACY OF THE DIMENSION CONTROL FURNISHED HEREIN. THE OWNER, AND HIS AGENTS, ARE NOT RESPONSIBLE FOR THE ACCURACY OF THE COORDINATES FURNISHED. THE CONTRACTOR IS REQUIRED TO VERIFY ALL OF THE COORDINATES FOR ACCURACY AND CONFIRM THE LOCATIONS OF ALL UTILITIES TO BE CONSTRUCTED, BOTH HORIZONTALLY AND VERTICALLY. DISCREPANCIES FOUND BY THE CONTRACTOR SHALL BE REPORTED IN WRITING, TO THE OWNER IMMEDIATELY FOR RECONCILIATION.

UTILITY NOTE:
THE UTILITIES SHOWN ON THE PLANS WERE COMPILED FROM VARIOUS SOURCES AND ARE INTENDED TO SHOW THE GENERAL EXISTENCE AND LOCATION OF UTILITIES IN THE AREA OF CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE UTILITY INFORMATION SHOWN ON THE PLANS. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CONTACT UTILITY COMPANIES 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITIES IN ORDER TO DETERMINE IF THERE IS ANY CONFLICT WITH THE PROPOSED FACILITIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN CONFLICTS WITH EXISTING UTILITIES ARE DISCOVERED. THE FOLLOWING PHONE NUMBERS ARE PROVIDED FOR CONVENIENCE. CONSIDERATION OF OTHER UTILITIES MAY BE REQUIRED.

FORT WORTH WATER DEPT (817) 392-8296
FORT WORTH TPW (817) 392-8100
TEXAS 811 (LOCATING SERVICE) 811

PROJECT BENCHMARK:
City of Fort Worth Monument # 9148 Located on I-35 North bound ser. rd 0.65+ mile North of Alliance Blvd. and 125' South of the projected center line of Avon Road from the W in the E. CL of the N bound serv. rd. in the center of a 10' inlet 1' behind the face of curb.
Elevation657.199'
City of Fort Worth Monument # 9149 Located on the I-35 North bound ser. rd 0.9+ mile north of Alliance Blvd. directly across from the exit ramp off I-35 for Eagle Parkway in the E. CL of the N bound service road in the center of a double 10' low point inlet 1' behind the face of curb.
Elevation653.856'

- Note:
1. Minimum radius of curve and maximum deflection angle of pipe joints will be restricted to 50% of manufacturer's recommendation, after which the use of horizontal or vertical bends will be required. No bending of pipe is allowed.
 2. All vertical and horizontal fittings and valves shall be designed with restrained joints in addition to concrete thrust blocking. Anchor tees or anchor couplings should be used to secure all branch valves to fittings.



UTILITY LEGEND	
	PROPERTY BOUNDARY
	ADJOINERS
	PROPOSED STORM DRAIN
	PROPOSED WATER LINE
	PROPOSED SANITARY SEWER LINE
	PROPOSED SANITARY SEWER MANHOLE
	PROPOSED WATER METER
	PROPOSED FIRE HYDRANT
	PROPOSED GATE VALVE
	PROPOSED PLUG
	PROPOSED REDUCER

FORT WORTH

DUNAWAY
550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107
Tel: 817.335.1121
(TX REG. F-1114)

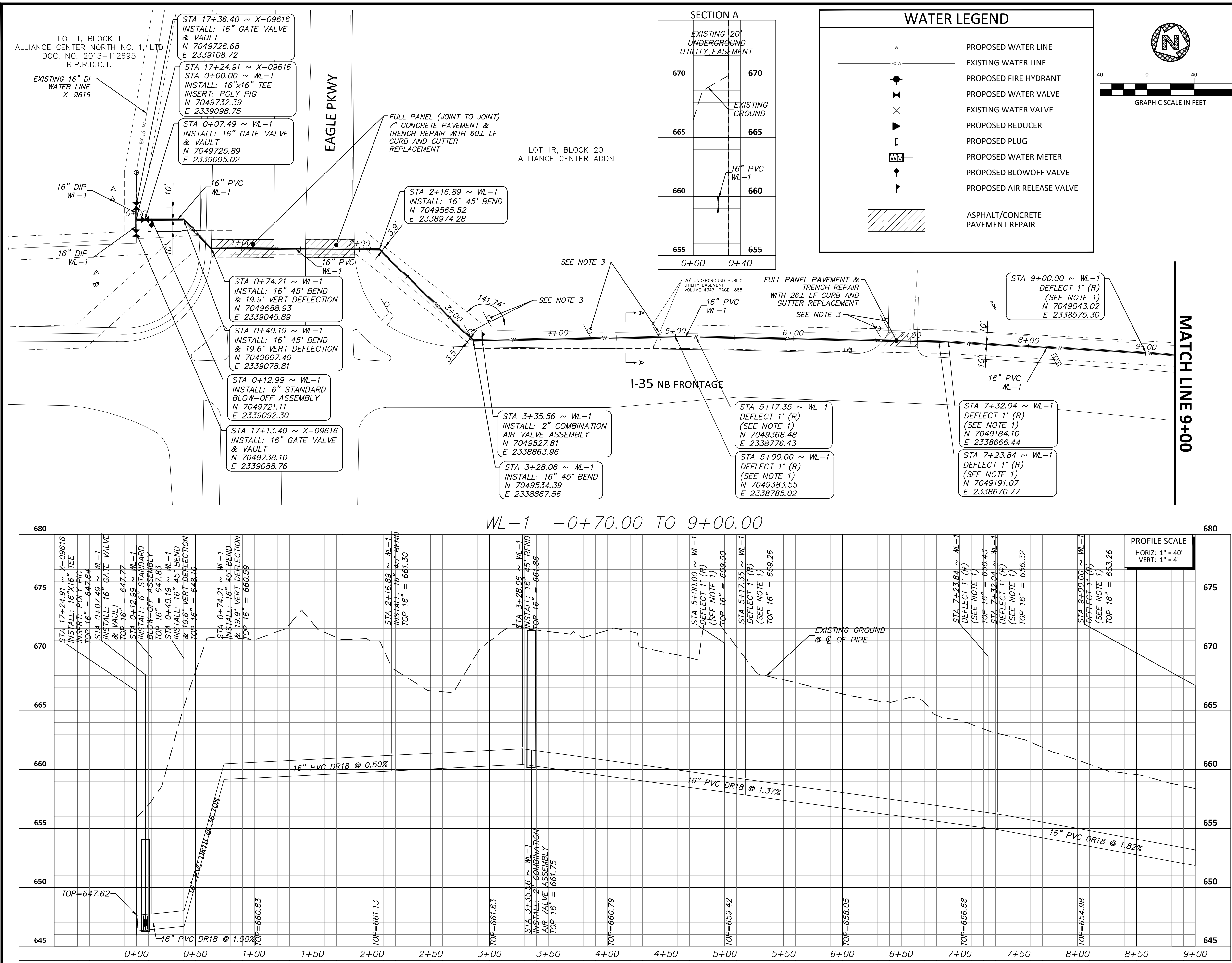
TOLIVER RV DEALERSHIP

UTILITY LAYOUT

DESIGNED: KIB	PROJECT NO: 103285	SHEET: 4
DRAWN: KIB	30114-0200431-103285-807685	
CHECKED: NJP	DATE: June 21	

WSL-2020-1190

FILENAME: WATER PLAN & PROFILE.dwg
PLOTTER: KATHARINE BRUNER
PLOT DATE: 06/08/2021
PLOTTER: HP DesignJet 500
PLOT SIZE: 36x48 in



REVISIONS		
NO.	DATE	DESCRIPTION

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FORT WORTH WATER DEPT (817) 392-8296
FORT WORTH TPW (817) 392-8100
TEXAS 811 (LOCATING SERVICE) 811

PROJECT BENCHMARK:

City of Fort Worth Monument # 9148 Located on I-35 North bound ser. road 0.65+ mile North of Alliance Blvd. and 125' South of the projected center line of Avon Road from the W in the E. CL of the N bound serv. rd. in the center of a 10' inlet 1' behind the face of curb.
Elevation 657.199'
City of Fort Worth Monument # 9149 Located on the I-35 North bound ser. rd 0.9+ mile north of Alliance Blvd. directly across from the exit ramp off I-35 for Eagle Parkway in the E. CL of the N bound service road in the center of a double 10' low point inlet 1' behind the face of curb.
Elevation 653.856'

Note:

- Minimum radius of curve and maximum deflection angle of pipe joints will be restricted to 50% of manufacturer's recommendation, after which the use of horizontal or vertical bends will be required. No bending of pipe is allowed.
- All vertical and horizontal fittings and valves shall be designed with restrained joints in addition to concrete thrust blocking. Anchor tees or anchor couplings should be used to secure all branch valves to fittings.
- All signs to be protected and remain during construction. If signs must be removed to facilitate construction, temporary sign to be placed at direction of sign owner and original sign to be reinstalled at conclusion of construction. No highway signs are anticipated to be affected. Contractor to notify engineer immediately if highway signs are in conflict.

WSP-2020-1190

FORT WORTH

DUNAWAY

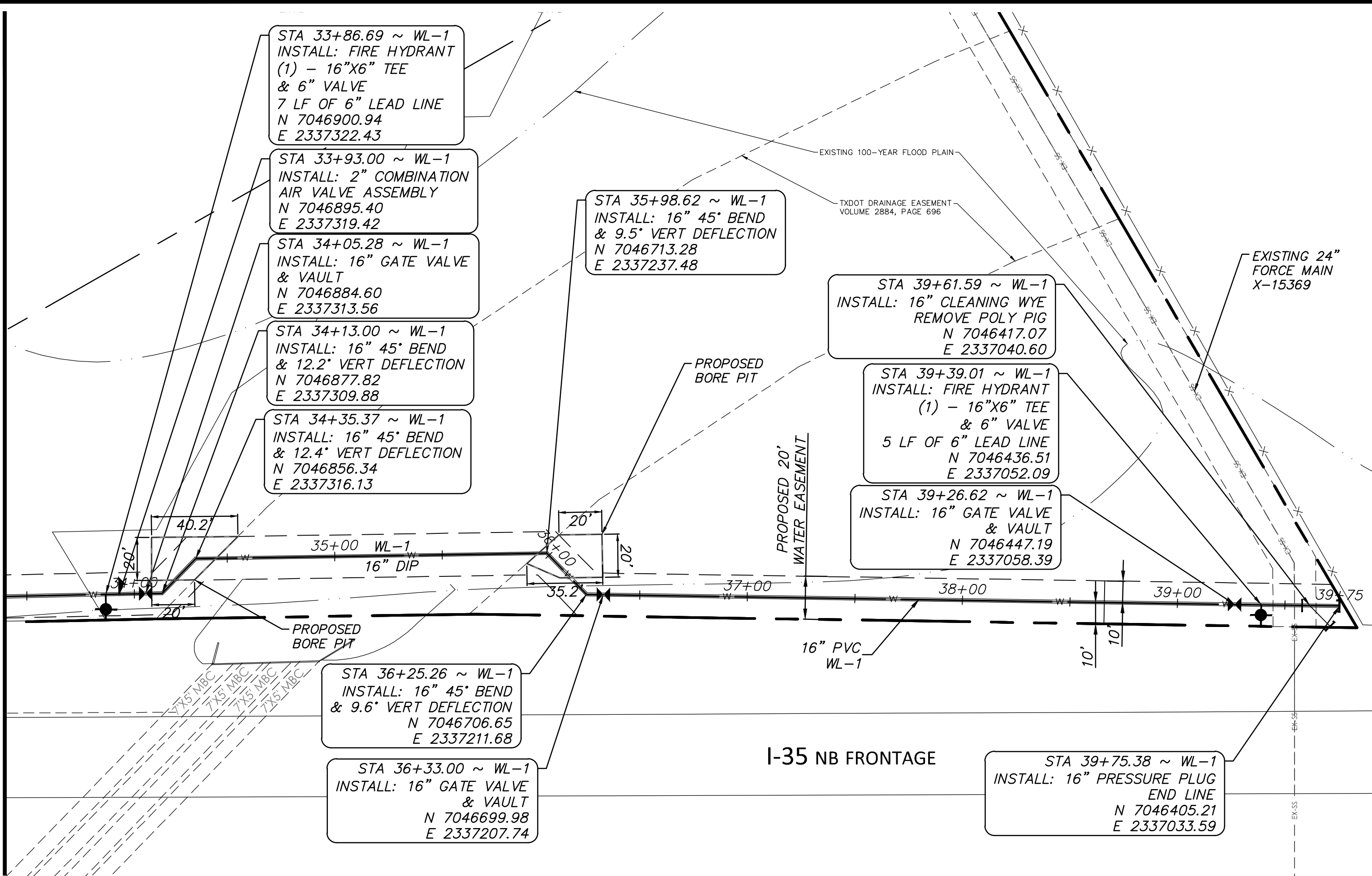
550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107
Tel: 817.335.1121
(TX REG. F-1114)

TOLIVER RV DEALERSHIP

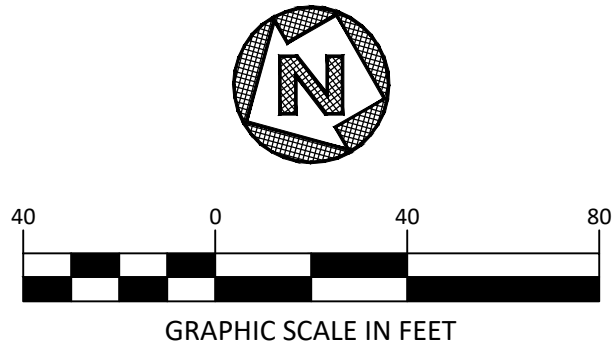
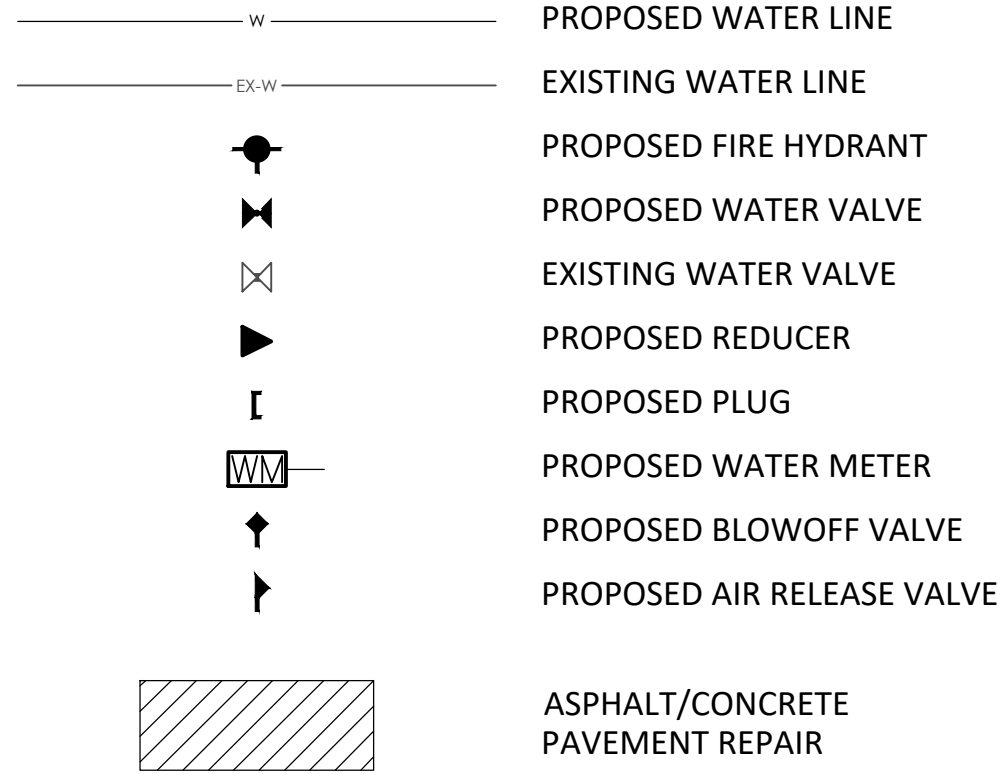
WATER PLAN & PROFILE

DESIGNED: KIB	PROJECT NO: 103285	SHEET: 5
DRAWN: KIB	DATE: June 21	
CHECKED: NJP		

MATCH LINE 33+50



WATER LEGEND



REVISIONS

NO.	DATE	DESCRIPTION

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FORT WORTH TWP (817) 392-8100
TEXAS 811 (LOCATING SERVICE) 811

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WSL-2020-1190

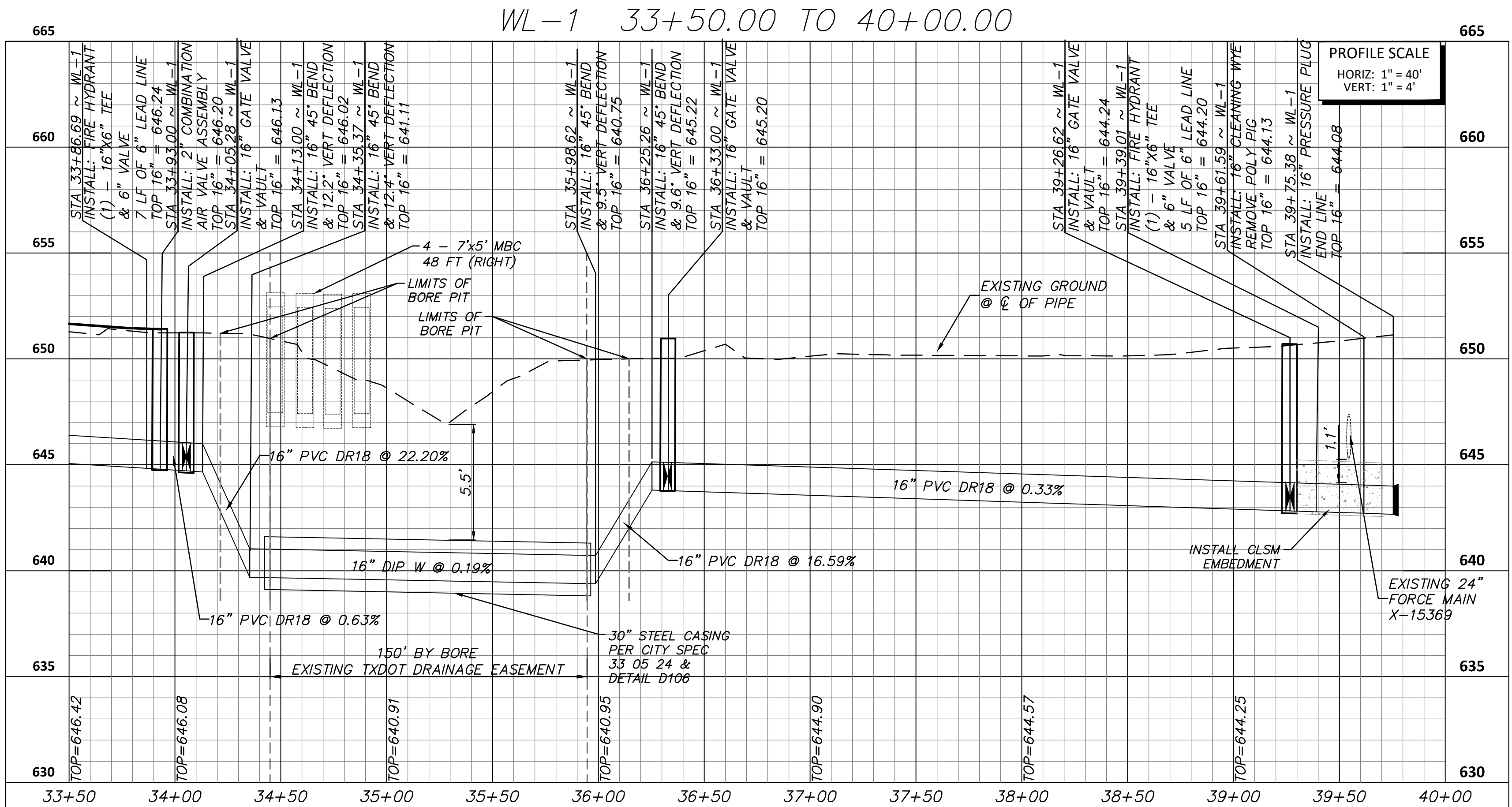


550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107
Tel: 817.335.1121
(TX REG. F-1114)

TOLIVER RV DEALERSHIP

WATER PLAN & PROFILE

DESIGNED: KIB	PROJECT NO: 103285	SHEET: 9
DRAWN: KIB	DATE: June 21	
CHECKED: NJP		



FULL PATH: C:\production\4001\065600\065601\001\Drawings\plan\Sheet\Utility\Water Details

FILENAME: WATER DETAILS.dwg
PLOTTER BY: Katherine Bruner
PLOT DATE: 8/11/2021 10:08 AM
PLOTTER: HP DesignJet 5000
PLOTED WITH: DWG TO PDF.pc3

UTILITY COLOR TABLE	
UTILITY	COLOR
POTABLE WATER	BLUE
RECLAIMED WATER	PURPLE
SANITARY SEWER	GREEN
STORM DRAIN	RED

21" POST CAP WITH COLOR AS PER UTILITY COLOR TABLE WITH WARNING LABEL ON BOTH SIDES.

4" MIN.

2" MIN.

1" WIDE REFLECTIVE TAPE WITH COLOR AS PER UTILITY COLOR TABLE.

1" APART STARTING 6" BELOW CAP.

NOTES:

1. MARKERS SHALL BE REQUIRED FOR ALL POTABLE WATER, RECLAIMED WATER, AND SANITARY SEWER LINES GREATER THAN 12".

2. MARKERS SHALL BE REQUIRED FOR STORM DRAINS WHEN INDICATED ON THE DRAWINGS.

3. PLACE MARKERS AT EACH RIGHT-OF-WAY CROSSING AND AT MAJOR UTILITY CROSSINGS AS INDICATED IN THE DRAWINGS.

CAUTION

PIPELINE

IN CASE OF EMERGENCY PLEASE CALL: (817) 392-4477

FOR LINE LOCATION PLEASE CALL: (817) 392-8296

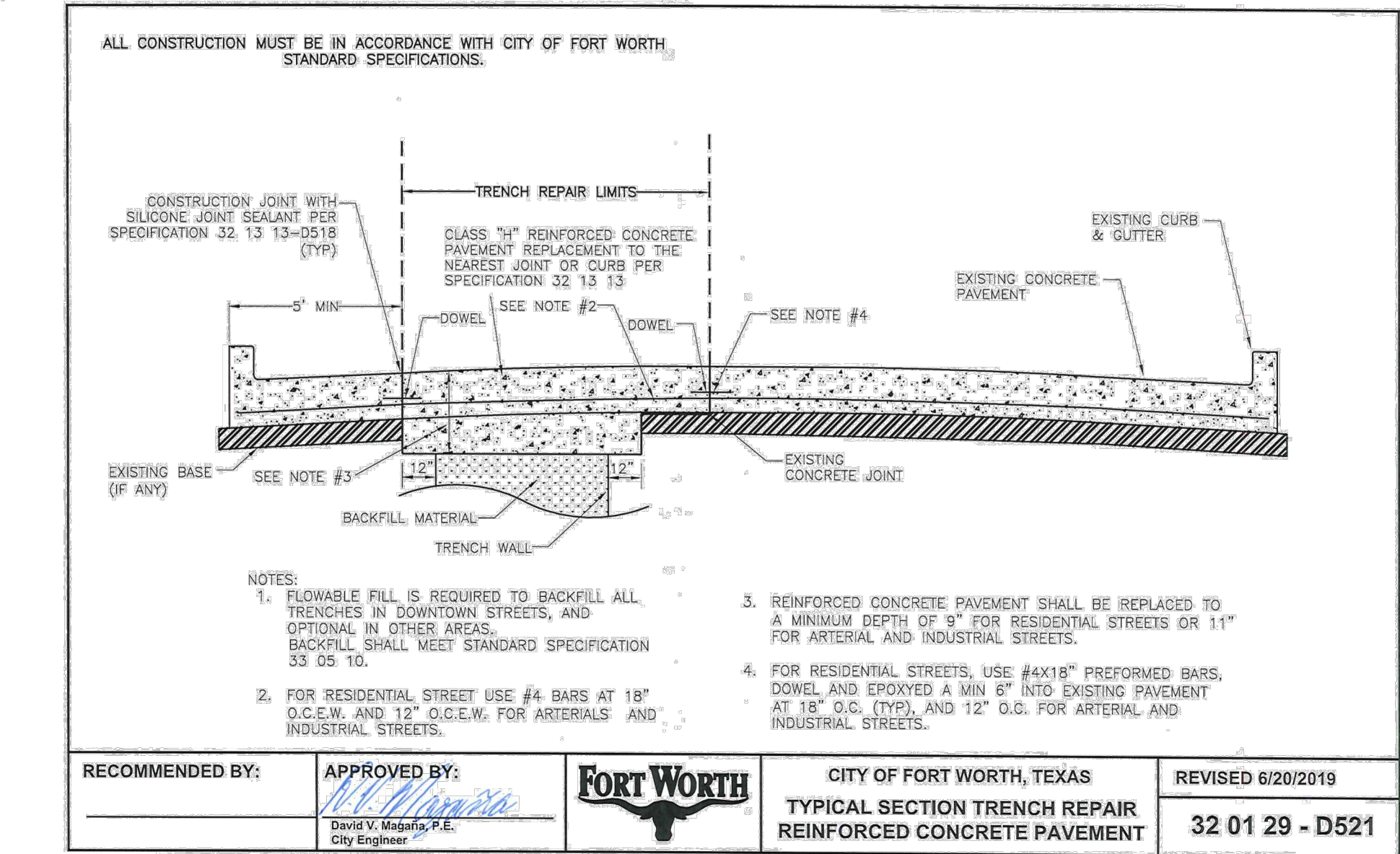
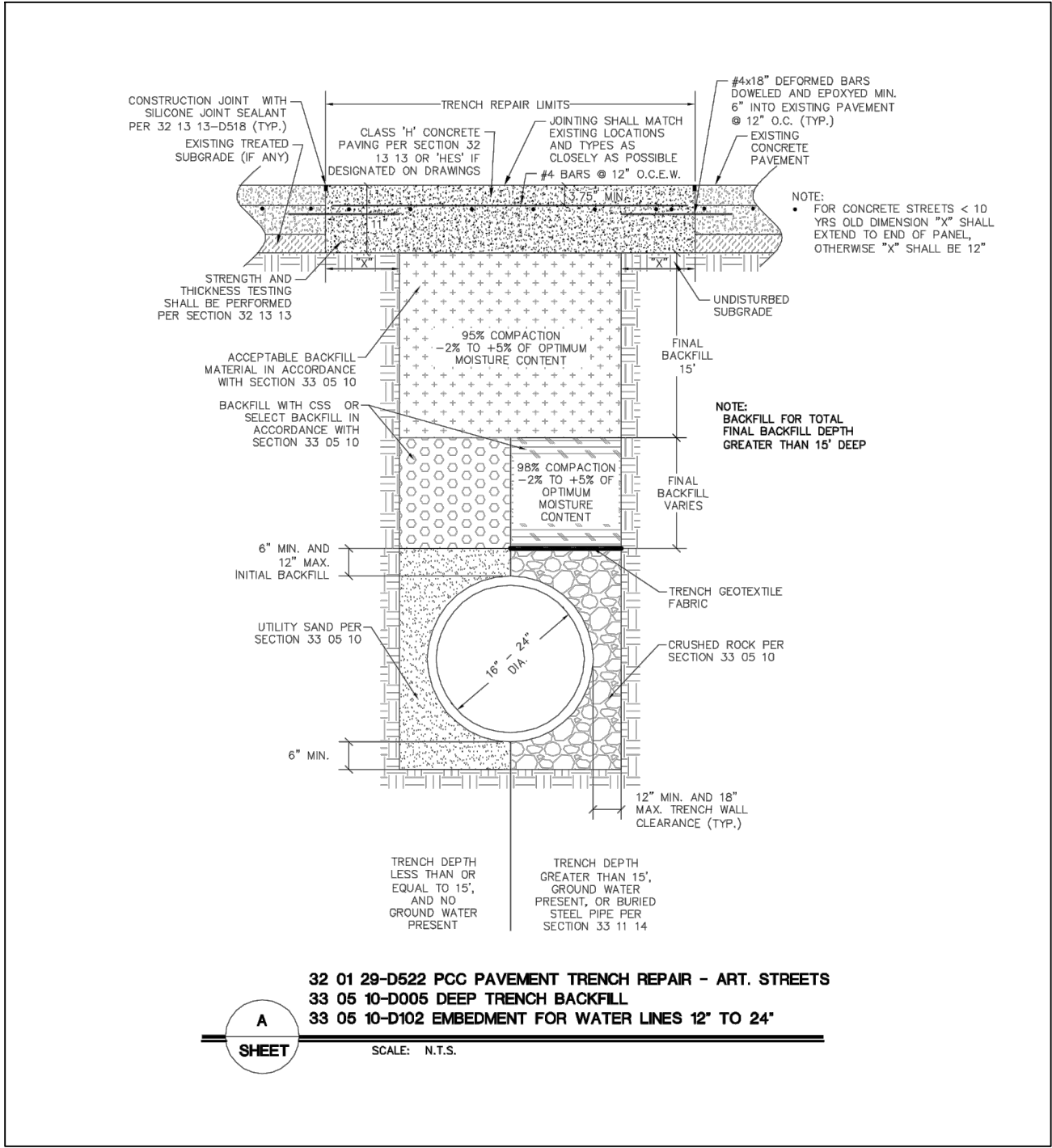
UTILITY WARNING LABEL N.T.S.

CITY OF FORT WORTH, TEXAS

UTILITY MARKER POLE

REVISED: 08-31-2012

33 05 26-D016



REVISIONS		
NO.	DATE	DESCRIPTION

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FORT WORTH TPW	(817) 392-8100
TEXAS 811 (LOCATING SERVICE)	811

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Elevation653.856'



550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107

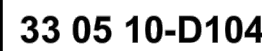
Tel: 817.335.1121

(TX REG. F-1114)

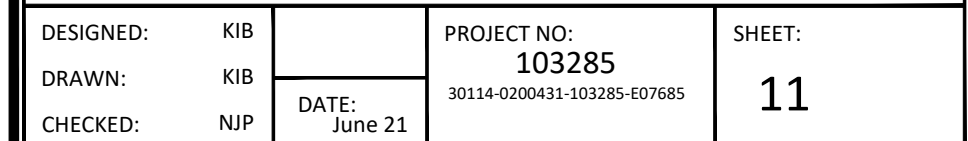
TOLIVER RV DEALERSHIP

WATER DETAILS

DESIGNED: KIB	PROJECT NO: 103285	SHEET: 10
DRAWN: KIB	30114-0200431-103285-07685	
CHECKED: NUP	DATE: June 21	

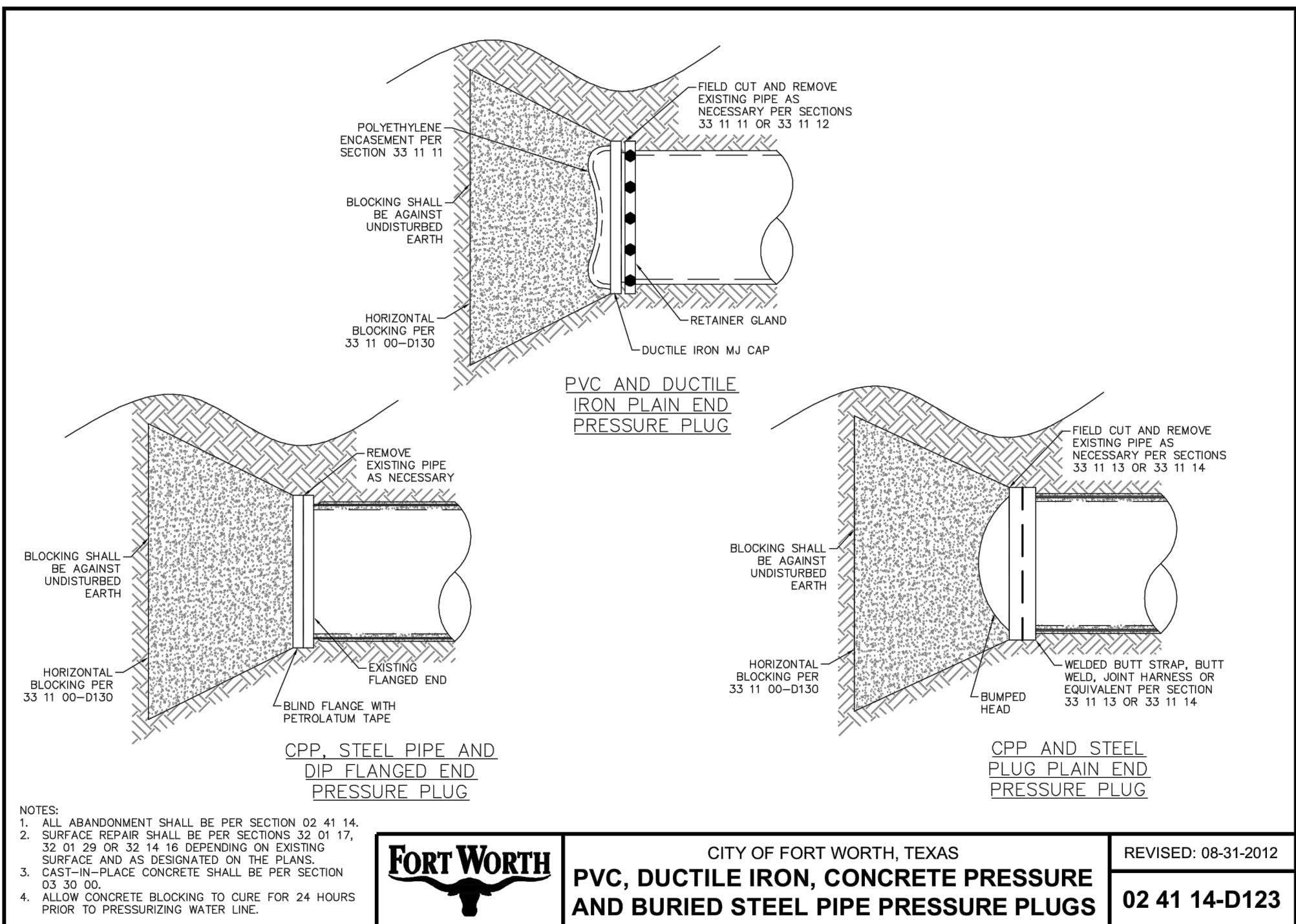
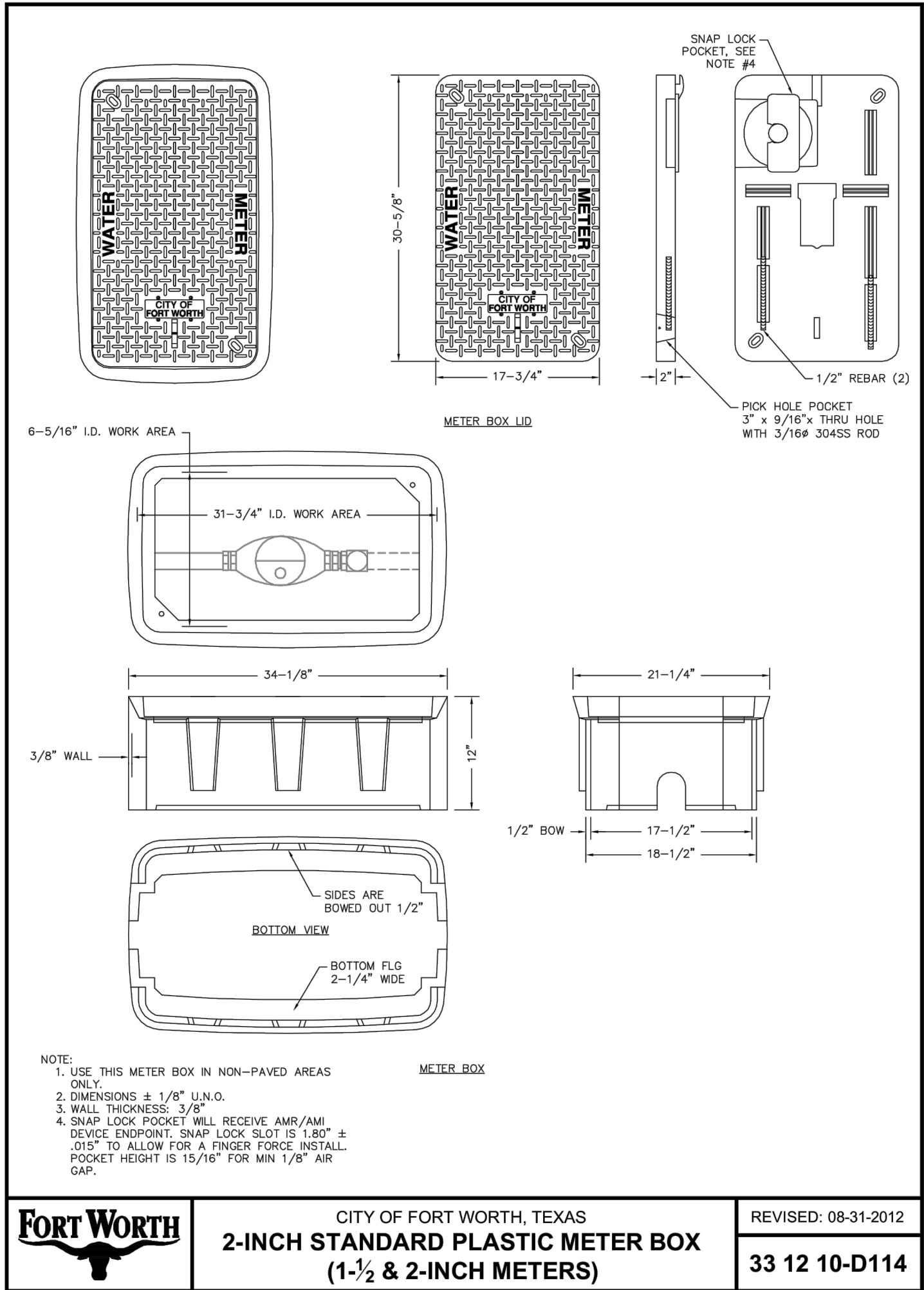
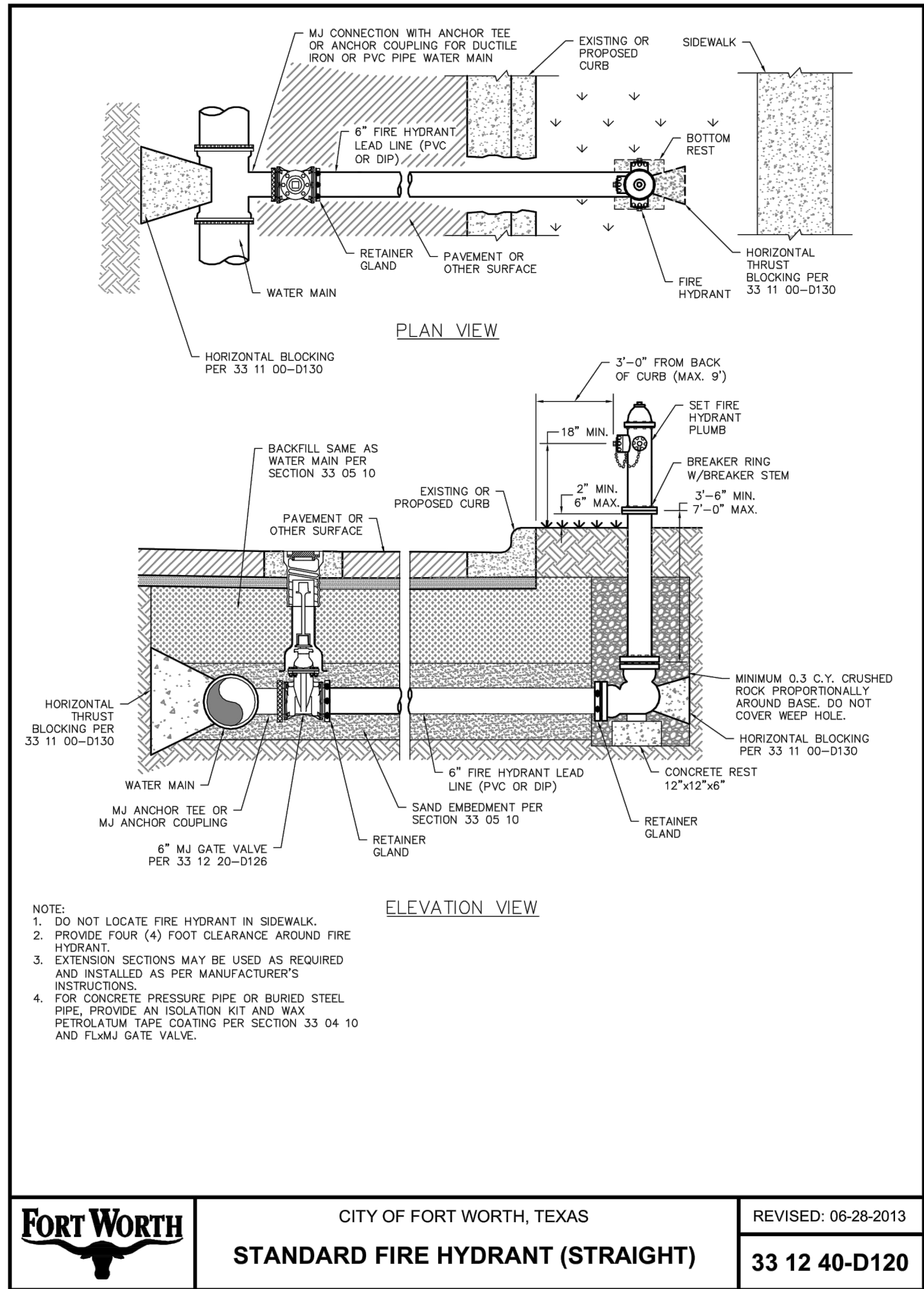
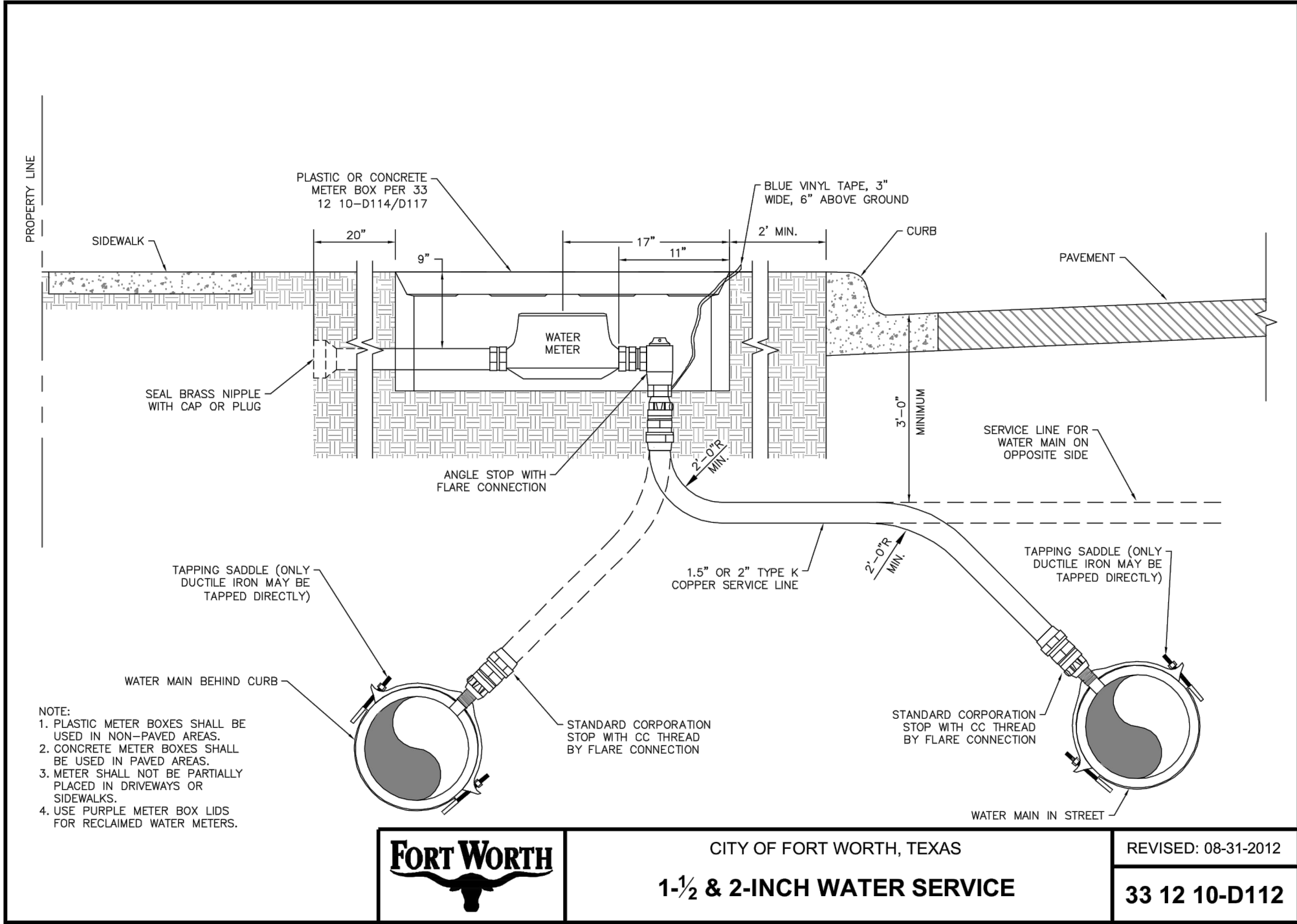


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FILENAME: WATER DETAILS.dwg
PLOTTER: KATHIERNE BRUNER
PLOT DATE: 8/13/2021
PLOTTER: HP
PLOT SIZE: 11x17
PLOT SCALE: 1/8"=1'-0"

FILENAME: WATER DETAILS.dwg
PLOTTER: KATHIERNE BRUNER
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TEXAS 811 (LOCATING SERVICE) 811

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FORT WORTH

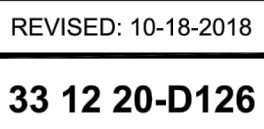
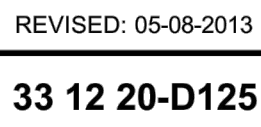
DUNAWAY

550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107
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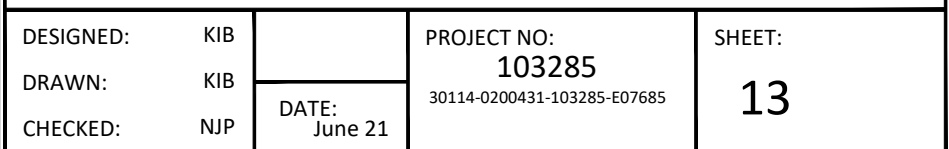
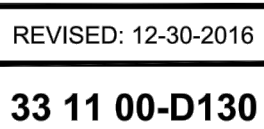
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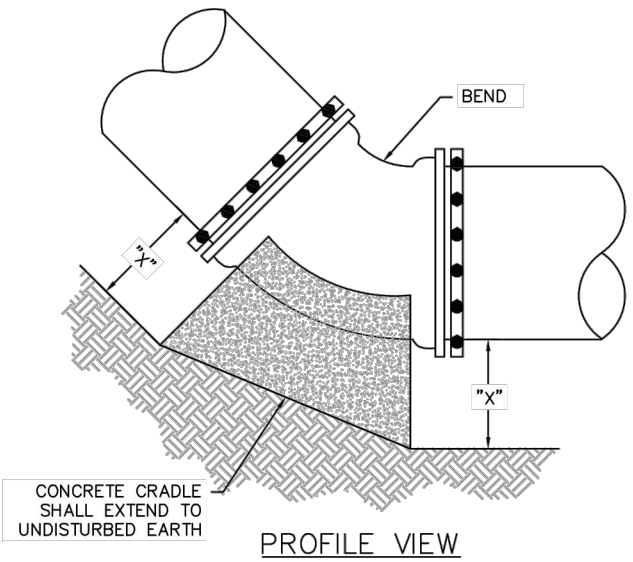
WATER DETAILS

DESIGNED: KIB	PROJECT NO: 103285	SHEET: 12
DRAWN: KIB	DATE: June 21	
CHECKED: NJP		



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CONCRETE CRADLE TABLE							
PIPE SIZE	"X" DIM.**	90° BENDS MIN. AREA (SF)	45° BENDS MIN. AREA (SF)	22.5° BENDS MIN. AREA (SF)	11.25° BENDS MIN. AREA (SF)		
6"	1'-6"	4.50	4.00*	4.00*	4.00*		
8"	1'-6"	6.00	4.33	4.00*	4.00*		
10"	1'-6"	12.50	6.76	4.00*	4.00*		
12"	1'-6"	17.99	9.74	4.96	4.00*		
16"	2'-0"	31.99	17.31	8.83	4.43		
20"	2'-0"	49.98	27.05	13.79	6.93		
24"	2'-0"	71.97	38.95	19.86	9.98		

*MINIMUM THRUST BLOCKING SURFACE AREA SHALL BE 4 SQUARE FEET.
**DIMENSION "X" TO BE A MINIMUM OF ONE FOOT AND SIX INCHES, BUT IS TO BE INCREASED WHERE NECESSARY TO PROVIDE BEARING AGAINST UNDISTURBED TRENCH BOTTOM.

- NOTES:
- THRUST BLOCKING AREAS SHOWN ARE BASED ON:
 - 225 PSI TEST PRESSURE
 - 3,000 PSF HORIZONTAL OR LATERAL BEARING PRESSURE FOR ACCEPTABLE SOILS
 - MINIMUM COVER OF 42"
 - A SAFETY FACTOR OF 1.5.
 - THE ENGINEER SHALL PROVIDE A SEPARATE BLOCKING TABLE WHEN THE CONDITIONS DO NOT MEET THE ABOVE ASSUMPTIONS.
 - THE CONTRACTOR IS REQUIRED TO PROVIDE THRUST RESTRAINT BY MEANS OF THRUST BLOCKING FOR ALL PIPES. THIS ITEM SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS ITEMS BID.
 - ALL MJ FITTINGS SHALL BE ADDITIONALLY RESTRAINED WITH RETAINER GLANDS.
 - CRADLES FOR WATER LINES LARGER THAN 24" SHALL BE DESIGNED FOR THE SPECIFIC LOCATION AND SHOWN ON THE DRAWINGS.
 - ALL DUCTILE IRON FITTINGS SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT PRIOR TO PLACING OF BLOCKING.
 - CONCRETE MATERIAL SHALL CONFORM TO SECTION 03 30 00.

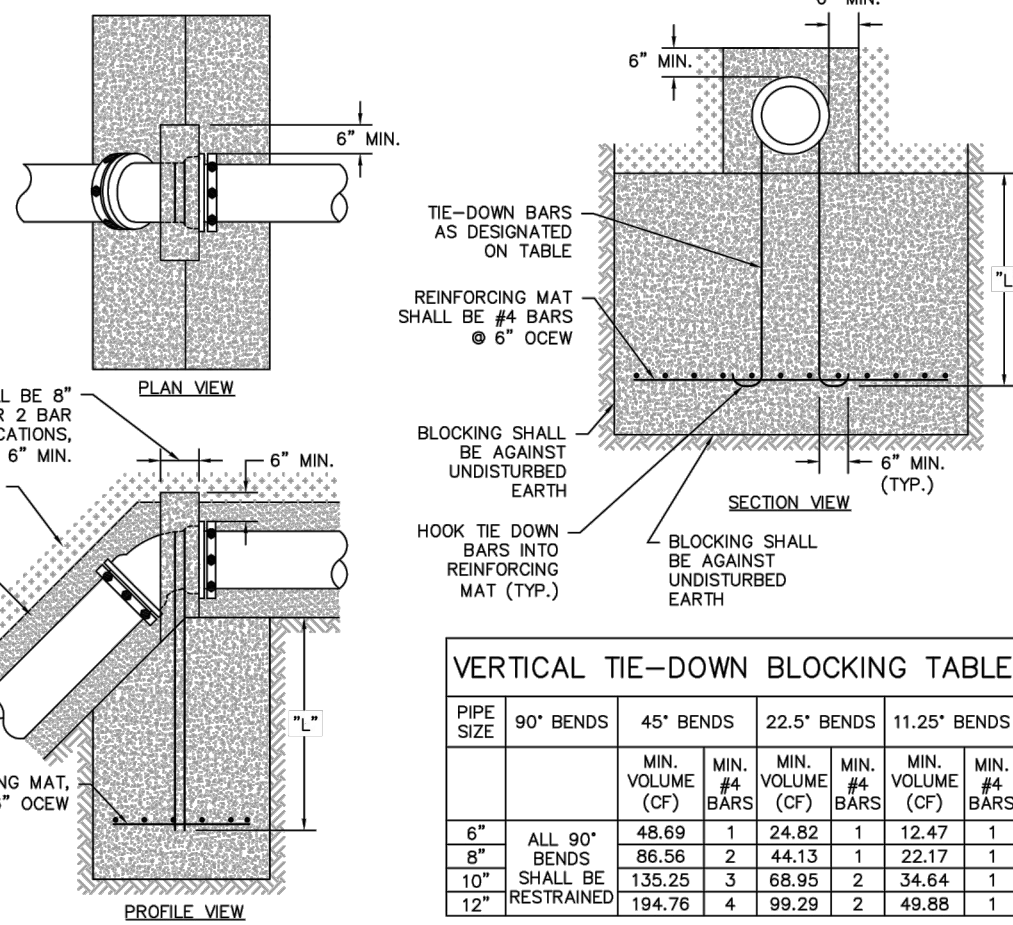


CITY OF FORT WORTH, TEXAS

REVISED: 12-30-2016

CONCRETE CRADLE

33 11 00-D131



VERTICAL TIE-DOWN BLOCKING TABLE							
PIPE SIZE	90° BENDS	45° BENDS	22.5° BENDS	11.25° BENDS			
		MIN. VOLUME (CF)	MIN. #4 BARS	MIN. VOLUME (CF)	MIN. #4 BARS	MIN. VOLUME (CF)	MIN. #4 BARS
6"	ALL 90°	48.69	1	24.82	1	12.47	1
8"	BENDS	66.58	2	44.13	1	22.17	1
10"	SHALL BE	135.25	3	88.95	2	34.64	1
12"	RESTRAINED	194.76	4	99.29	2	49.88	1

- NOTES:
- VERTICAL TIE-DOWN BLOCKING VOLUMES SHOWN ARE BASED ON:
 - 225 PSI TEST PRESSURE
 - 150 PCF CONCRETE DENSITY
 - A SAFETY FACTOR OF 1.5.
 - BAR QUANTITIES ARE BASED ON:
 - 30 KSI #4 STEEL REINFORCEMENT BAR
 - A FACTOR OF SAFETY OF 1.5
 - 1" SHALL BE A MINIMUM OF 18".
 - THE ENGINEER SHALL PROVIDE A SEPARATE VERTICAL TIE-DOWN BLOCKING TABLE WHEN THE CONDITIONS DO NOT MEET THE ABOVE ASSUMPTIONS.
 - THE CONTRACTOR IS REQUIRED TO PROVIDE THRUST RESTRAINT BY MEANS OF VERTICAL TIE-DOWN BLOCKING FOR ALL PIPES. THIS ITEM SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS ITEMS BID.
 - ALL MJ FITTINGS SHALL BE ADDITIONALLY RESTRAINED WITH RETAINER GLANDS.
 - WIDTHS, LENGTHS AND DEPTHS MAY VARY BUT SATISFACTION OF ABOVE MINIMUM VOLUMES MUST BE DEMONSTRATED.
 - KEEP CONCRETE CLEAR OF PIPE JOINTS AND BOLTS.
 - VERTICAL TIE-DOWN BLOCKING FOR LINES 16" AND LARGER SHALL BE DESIGNED FOR THE SPECIFIC LOCATION AND SHOWN ON THE DRAWINGS.
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 - CONCRETE MATERIAL SHALL CONFORM TO SECTION 03 30 00.

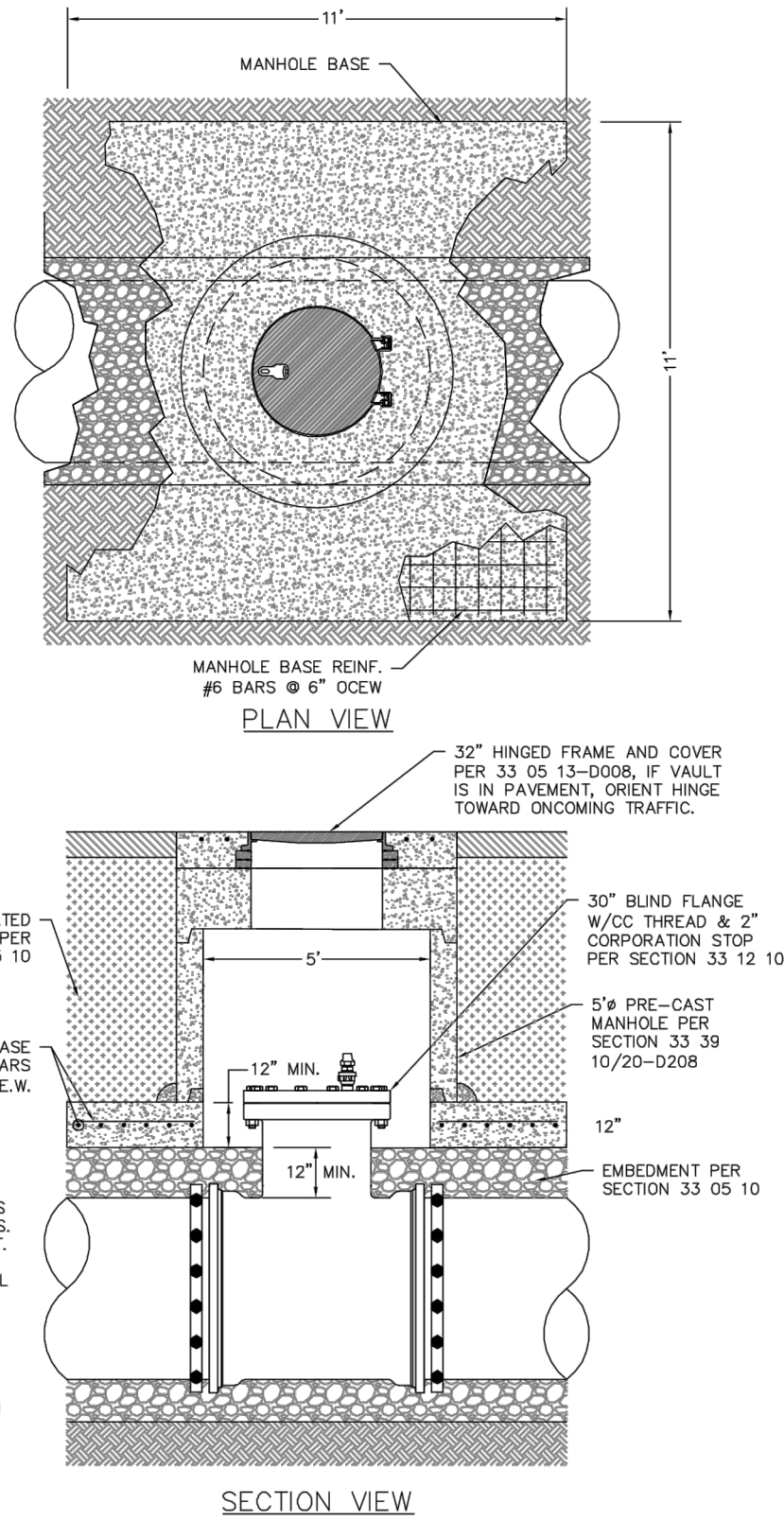


CITY OF FORT WORTH, TEXAS

REVISED: 12-30-2016

VERTICAL TIE-DOWN BLOCKING

33 11 00-D132



- NOTES:
- VAULT TOP SHALL BE PER MANHOLE LID ASSEMBLY DETAILS AS INDICATED ON THE DRAWINGS.
 - CENTER BLIND FLANGE IN VAULT.
 - FOR DUCTILE IRON OR PVC WATER LINES, PROVIDE AN MJ/F TEE RESTRAINED WITH RETAINER GLANDS.
 - FOR CONCRETE PRESSURE PIPE AND STEEL LINES, PROVIDE A FLANGED OUTLET.
 - WRAP STEEL FLANGES WITH PETROLATUM TAPE PER SECTION 33 04 10.

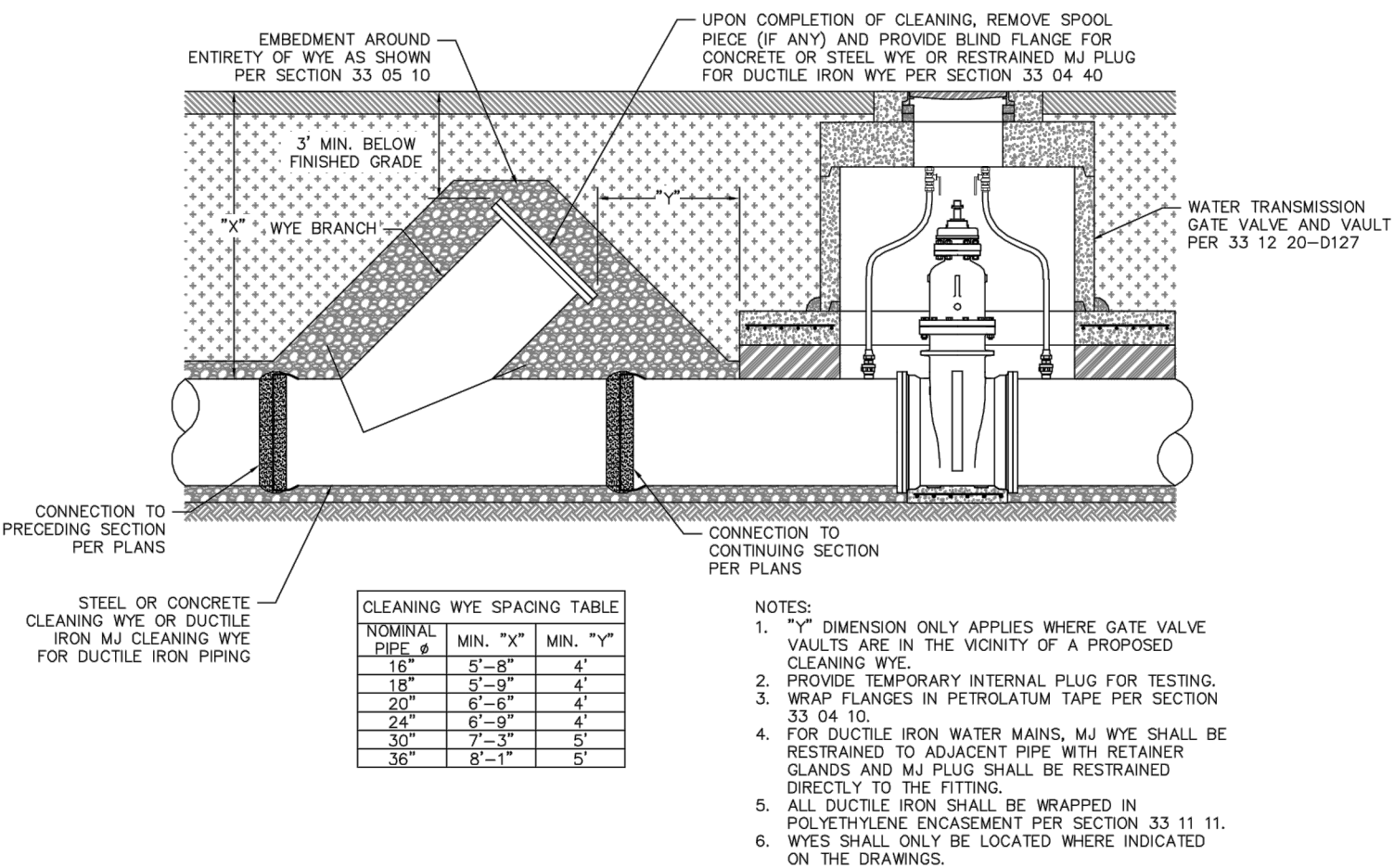


CITY OF FORT WORTH, TEXAS

REVISED: 08-31-2012

ACCESS MANHOLE

33 39 10/20-D137



CLEANING WYE SPACING TABLE			
NOMINAL DIPS	MIN. "X"	MIN. "Y"	
16"	5'-8"	4'	
18"	5'-8"	4'	
20"	6'-6"	4'	
24"	6'-9"	4'	
30"	7'-1"	5'	
36"	8'-1"	5'	

- NOTES:
- "Y" DIMENSION ONLY APPLIES WHERE GATE VALVE VAULTS ARE IN THE VICINITY OF A PROPOSED CLEANING WYE.
 - PROVIDE TEMPORARY INTERNAL PLUG FOR TESTING.
 - WRAP FLANGES IN PETROLATUM TAPE PER SECTION 33 04 10.
 - FOR DUCTILE IRON WATER MAINS, MJ WYE SHALL BE RESTRAINED TO ADJACENT PIPE WITH RETAINER GLANDS AND MJ PLUG SHALL BE RESTRAINED DIRECTLY TO THE FITTING.
 - ALL DUCTILE IRON SHALL BE WRAPPED IN POLYETHYLENE ENCASEMENT PER SECTION 33 11 11.
 - WYES SHALL ONLY BE LOCATED WHERE INDICATED ON THE DRAWINGS.

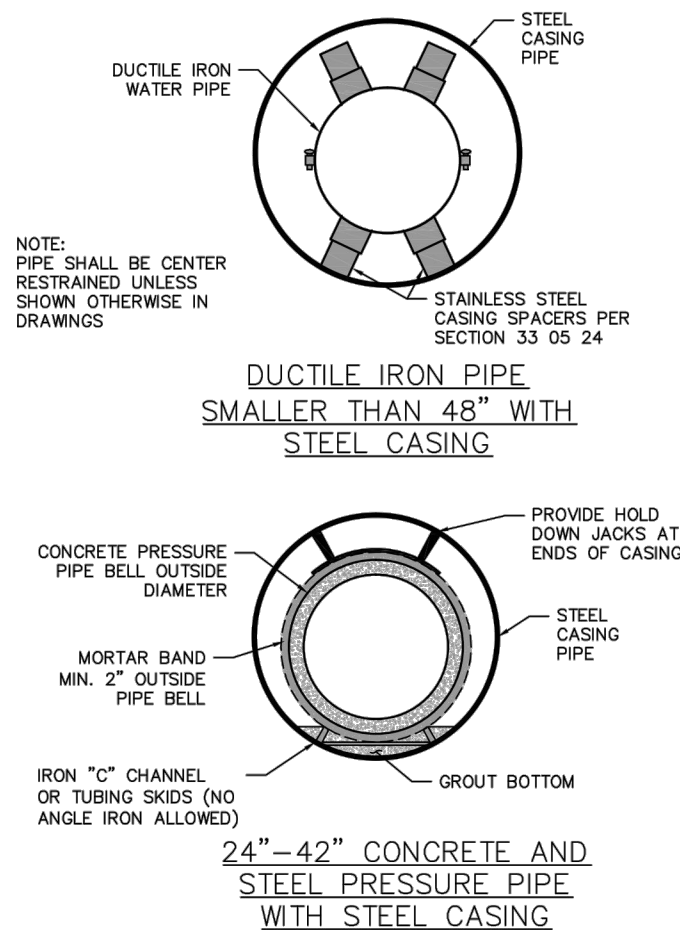


CITY OF FORT WORTH, TEXAS
STANDARD CLEANING WYE FOR WATER TRANSMISSION PIPE (16" AND LARGER)

REVISED: 08-31-2012

33 04 40-D136

NOTE TO DESIGNER:
PIPE LARGER THAN 42" TO BE CASIED IN STEEL SHALL BE DESIGNED BY ENGINEER



CASING PIPE SCHEDULE - DUCTILE IRON PIPE			
NOMINAL CARRIER PIPE SIZE	PIPE CARRIER PIPE BELL OD W/ REQUIRED RESTRAINT	MIN CASING STEEL ID	
6"	8.6"	20"	
8"	11.16"	20"	
10"	13.25"	20"	
12"	15.22"	24"	
14"	17.73"	30"	
16"	19.86"	30"	
18"	22.16"	36"	
20"	24.28"	36"	
24"	28.88"	42"	
30"	36.34"	48"	
36"	42.86"	54"	
42"	49.92"	60"	

CASING PIPE SCHEDULE - CONCRETE PRESSURE/STEEL PIPE							
NOMINAL CARRIER PIPE SIZE	OPP CARRIER PIPE BELL OD (C-301)	MIN CASING STEEL ID	OPP CARRIER PIPE BELL OD (C-303)	MIN CASING STEEL ID	STEEL CARRIER PIPE BELL OD	MIN CASING STEEL ID	
24"	30"	42"	28"	42"	24.75"	42"	
30"	36.5"	48"	35"	48"	30.75"	48"	
36"	43.5"	54"	41"	54"	36.75"	54"	
42"	50.5"	60"	47"	60"	42.75"	60"	

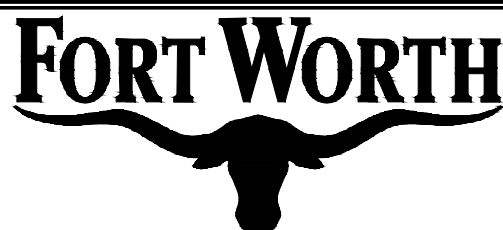
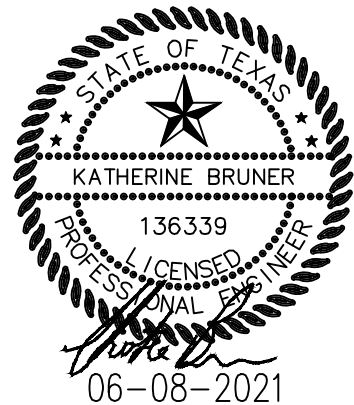
- NOTE:
- CASING DIAMETERS SHOWN ARE TO MEET MINIMUM INSTALLATION REQUIREMENTS. LARGER CASING SIZES AS INDICATED IN THE DRAWINGS SHALL GOVERN. CASING SIZES MAY BE INCREASED TO ALLOW FOR CASING INSTALLATION TOLERANCE VARIABILITY.



CITY OF FORT WORTH, TEXAS
WATER CARRIER PIPE INSTALLATION IN STEEL CASING

REVISED: 05-15-2015

33 05 24-D106

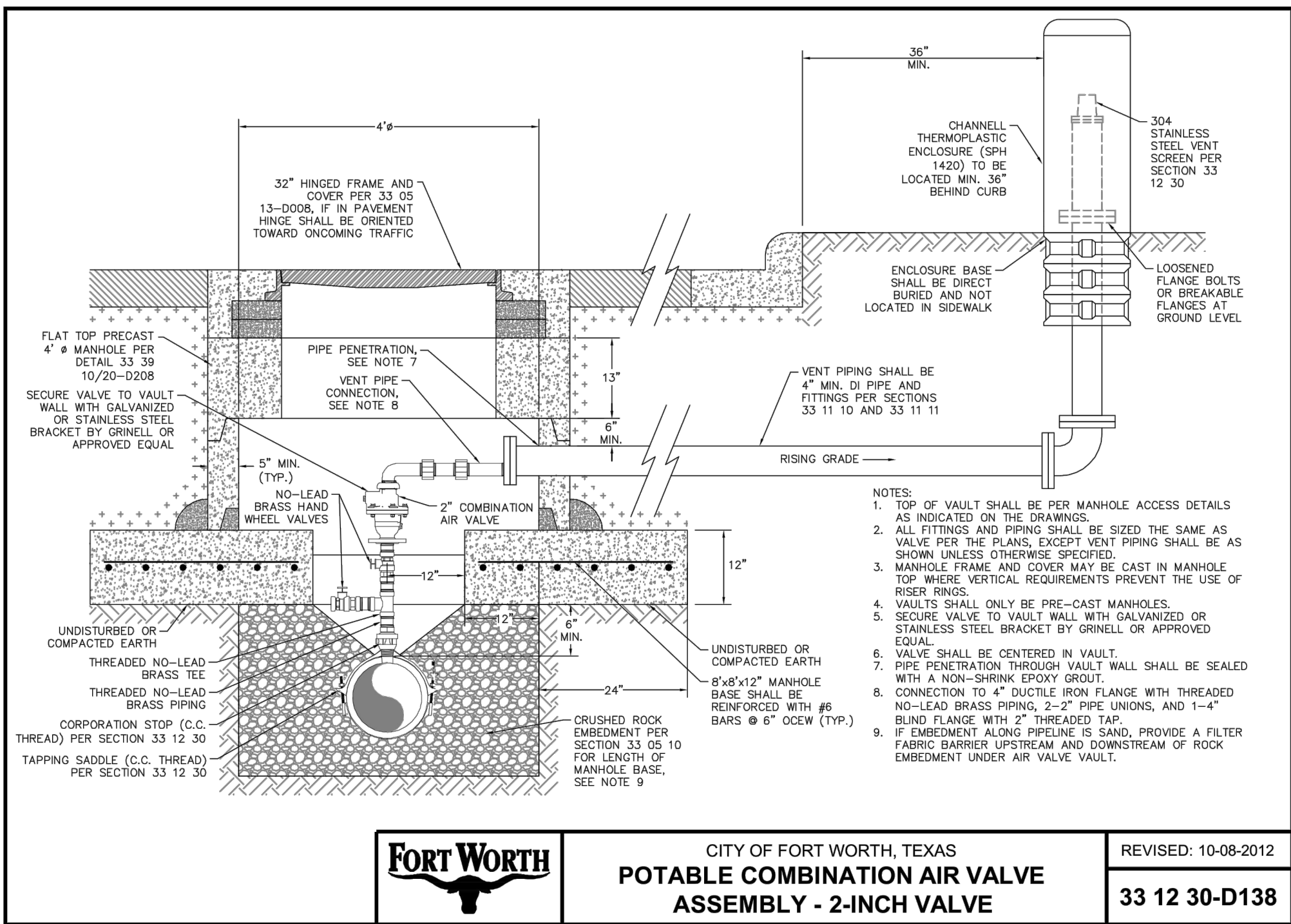
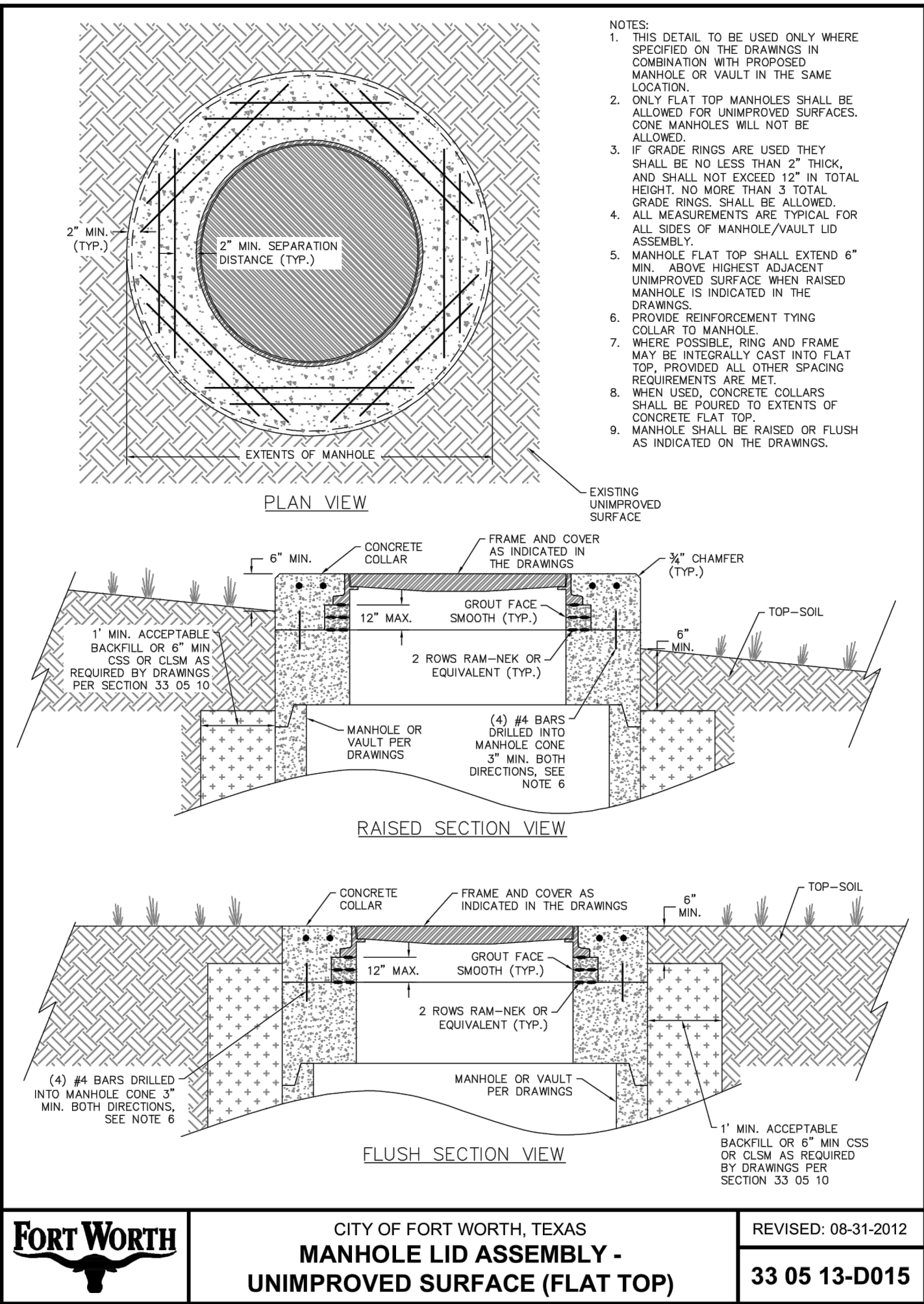
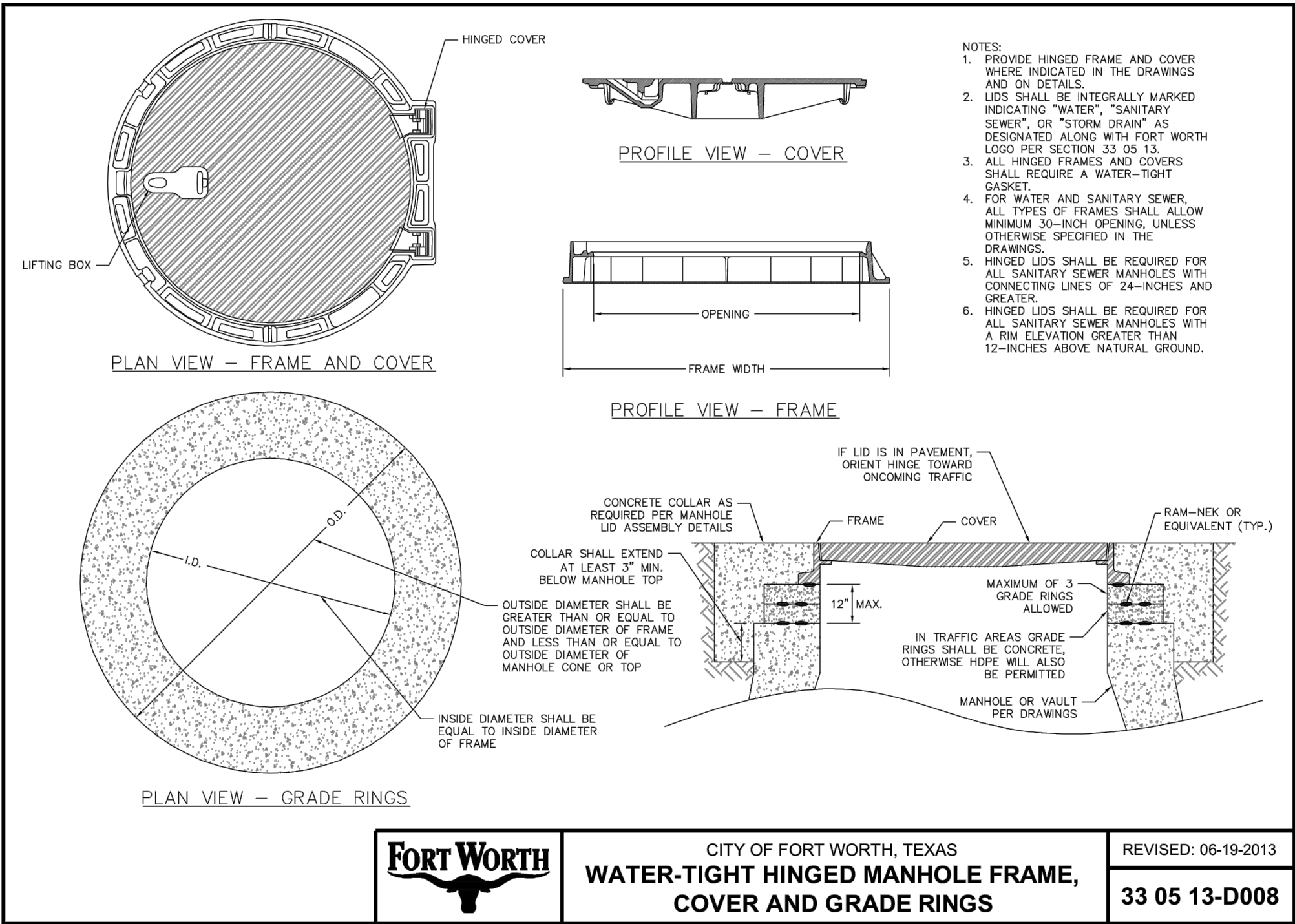
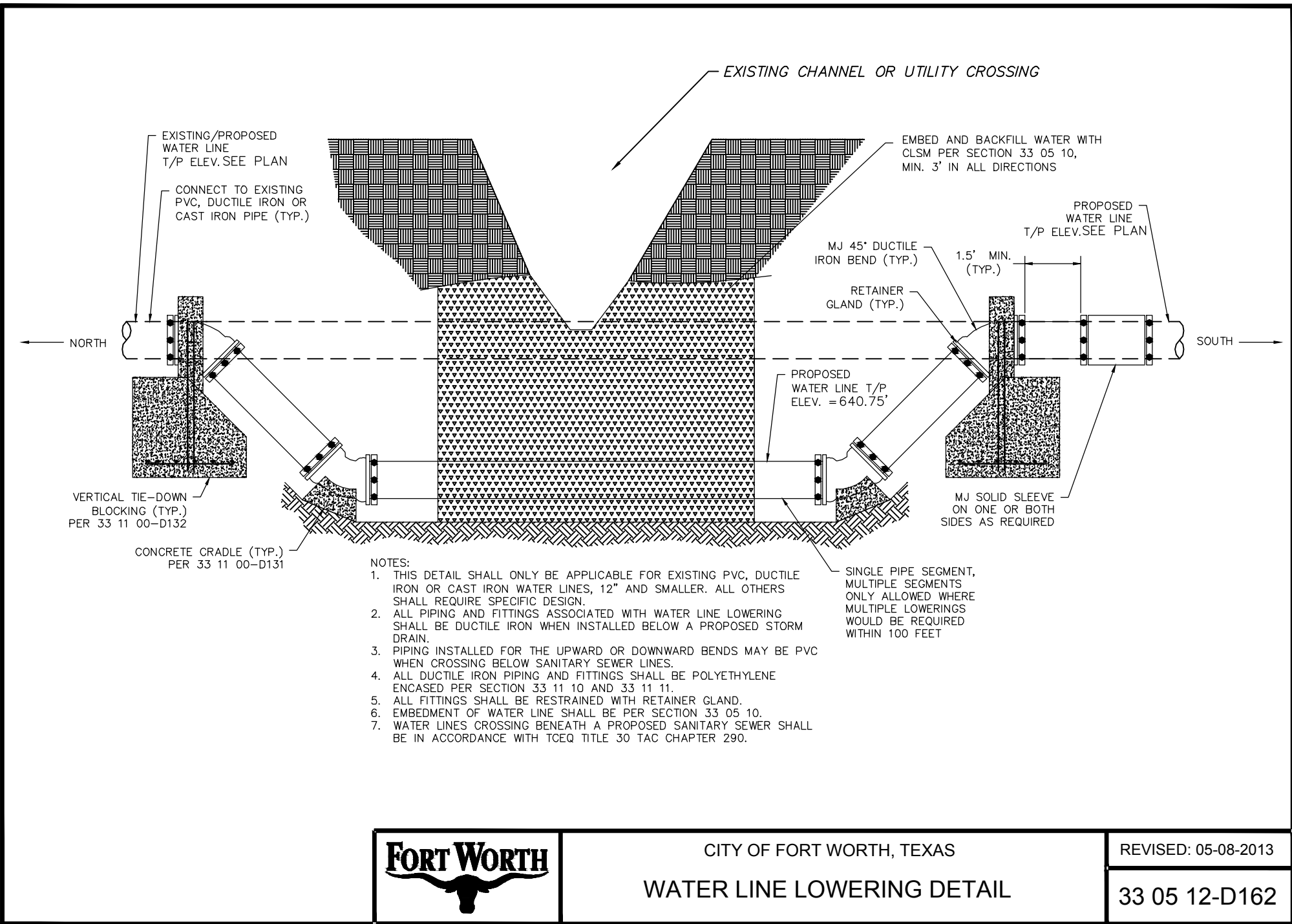


550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107
Tel: 817.335.1121
TX REG. F-1114

TOLIVER RV DEALERSHIP

WATER DETAILS

DESIGNED: KIB	PROJECT NO: 103285 30114-0200431-103285-07685	SHEET: 14
DRAWN: KIB		
CHECKED: NJP		



REVISIONS		
NO.	DATE	DESCRIPTION

WARNING TO CONTRACTOR:

CALL 1-800-344-8377 (DIG-TESS) OR OTHER UTILITY LOCATING SERVICES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. DUNAWAY ASSOC., L.P. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS OF UTILITIES ON DRAWINGS.

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FORT WORTH WATER DEPT (817) 392-8296
FORT WORTH TPW (817) 392-8100
TEXAS 811 (LOCATING SERVICE) 811

PROJECT BENCHMARK:

City of Fort Worth Monument # 9148 Located on I-35 North bound ser. road 0.65+ mile North of Alliance Blvd. and 125' South of the projected center line of Avon Road from the W in the E. CL of the N bound serv. rd. in the center of a 10' inlet 1' behind the face of curb.

Elevation657.199'

City of Fort Worth Monument # 9149 Located on the I-35 North bound ser. rd 0.9+ mile north of Alliance Blvd. directly across from the exit ramp off I-35 for Eagle Parkway in the E. CL of the N bound service road in the center of a double 10' low point inlet 1' behind the face of curb.

Elevation653.856'



FORT WORTH

DUNAWAY

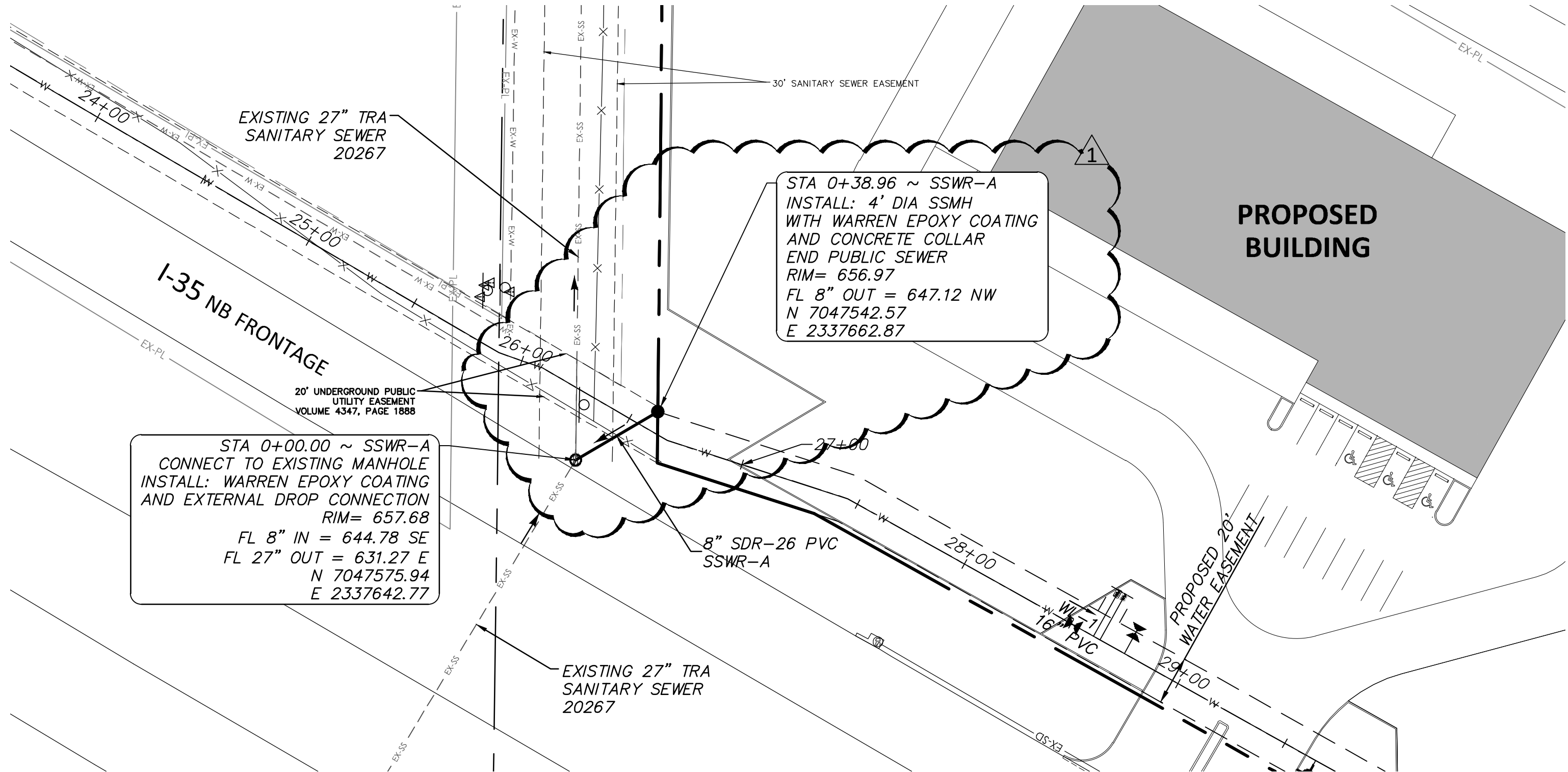
550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107
Tel: 817.335.1121
TX REG. F-1114

TOLIVER RV DEALERSHIP

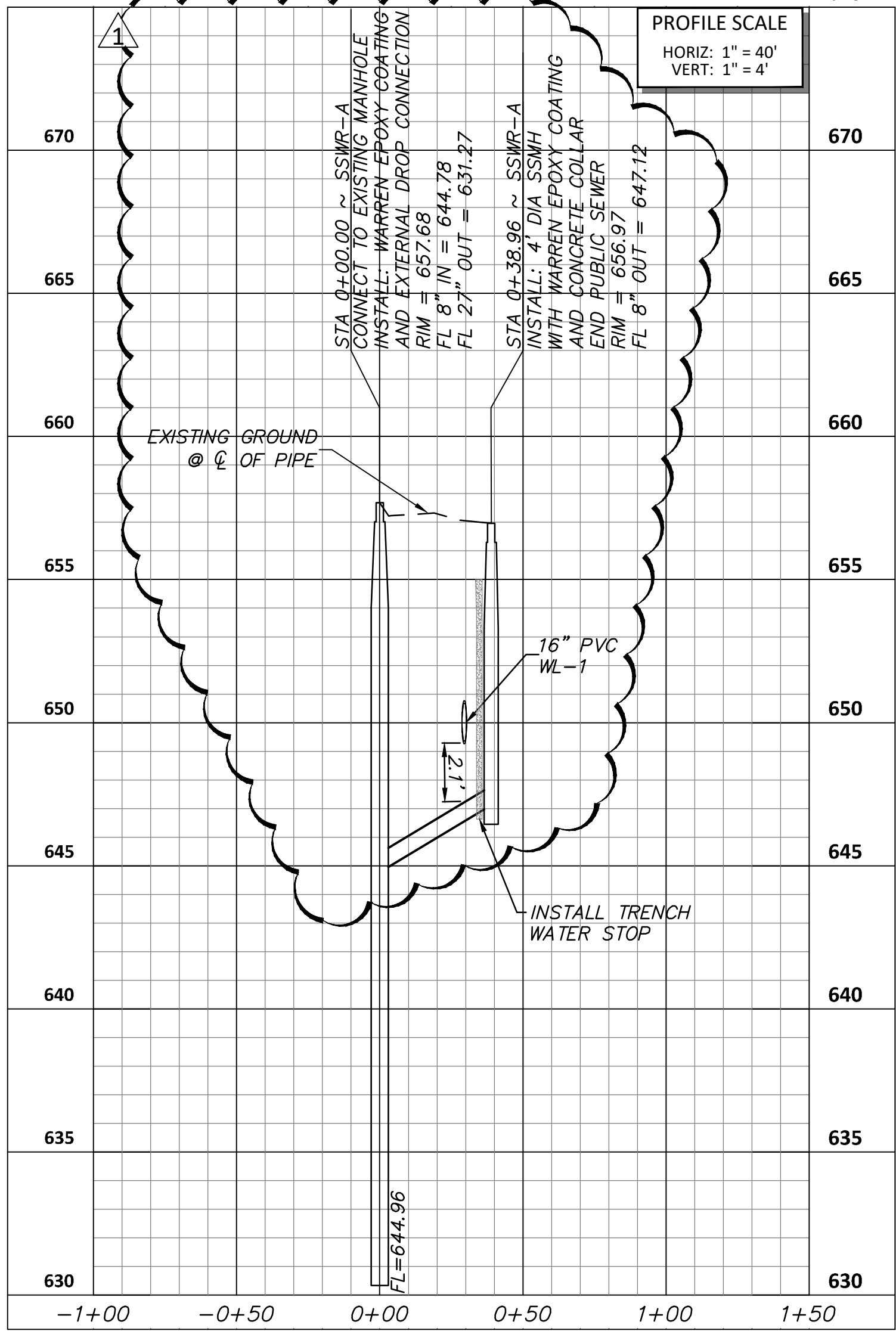
WATER DETAILS

DESIGNED: KIB	PROJECT NO: 103285	SHEET: 15
DRAWN: KIB	DATE: June 21	
CHECKED: NJP	30114-0200431-103285-07685	

MATCH LINE 9+00



SSWR-A STA -1+00.00 TO STA 1+50.00



SANITARY SEWER LEGEND

- SS PROPOSED SANITARY SEWER LINE
- EX-SS EXISTING SANITARY SEWER LINE
- Sanitary sewer to be abandoned
- Proposed SS manhole
- Proposed single cleanout
- Proposed double cleanout
- Proposed connection to ex. SSMH

REVISIONS

NO.	DATE	DESCRIPTION
1	7/28/2021	REV_1

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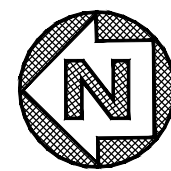
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FORT WORTH TWP (817) 392-8100
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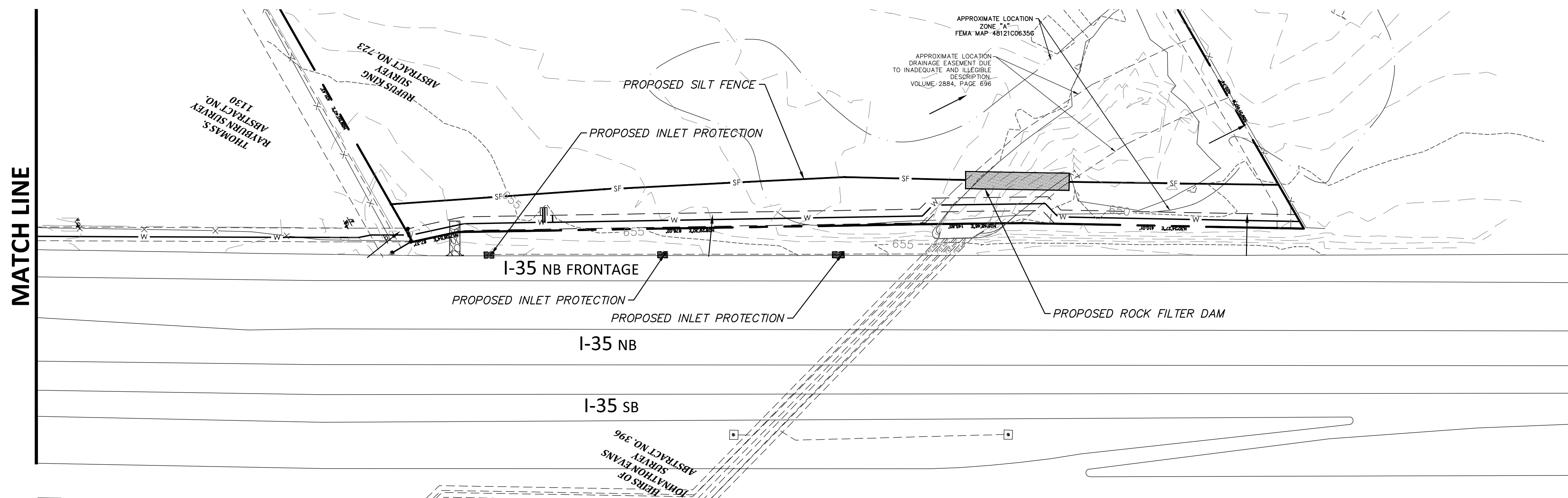
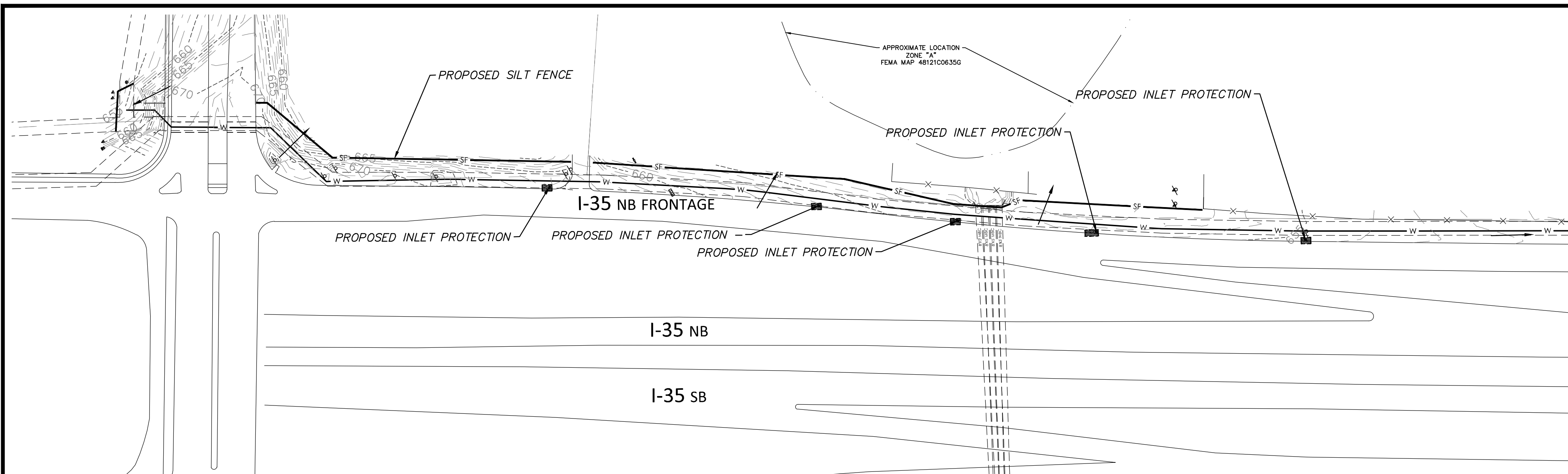
FORT WORTH

DUNAWAY
550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107
Tel: 817.335.1121
(TX REG. F-1114)

TOLIVER RV DEALERSHIP

SANITARY SEWER PLAN & PROFILE

DESIGNED: KIB	PROJECT NO: 103285	SHEET: 16
DRAWN: KIB	30114-0200431-103285-807685	
CHECKED: NJP	DATE: July 21	

[illegible]

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FORT WORTH WATER DEPT	(817) 392-8296
FORT WORTH TPW	(817) 392-8100
TEXAS 811 (LOCATING SERVICE)	811

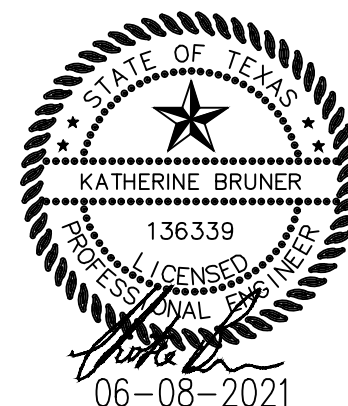
PROJECT BENCHMARK:

PRIVILEGE BENEFIT MARK






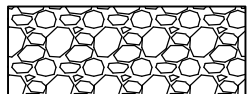

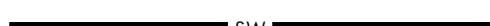

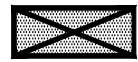

Elevation 657.199'

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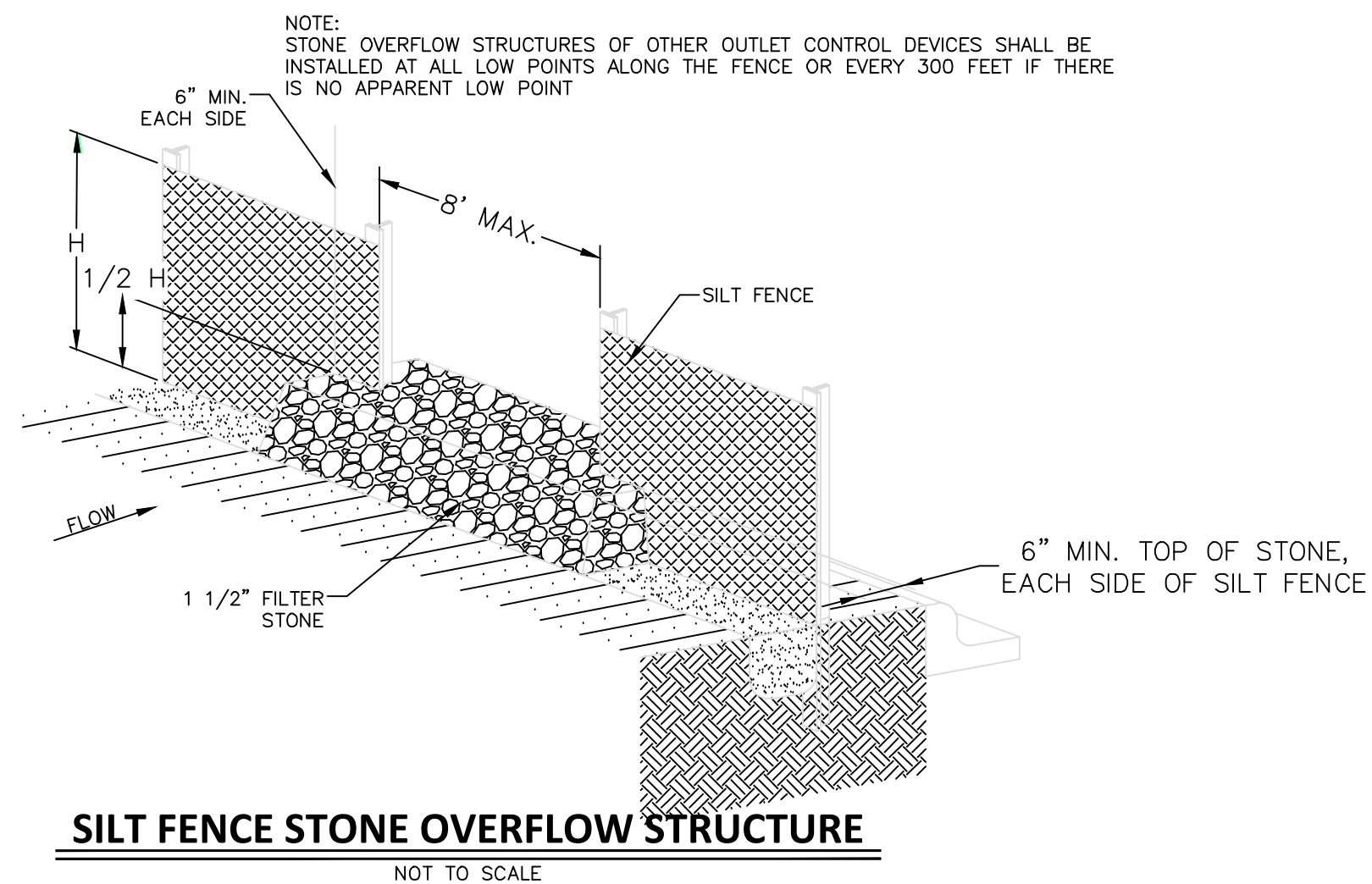
EROSION CONTROL LEGEND

	EXISTING MAJOR CONTOUR (5 FT)
	EXISTING MINOR CONTOUR (1 FT)
	PROPOSED MAJOR CONTOUR (5 FT)
	PROPOSED MINOR CONTOUR (1 FT)
	EXISTING STORM DRAIN STORMWATER FLOW DIRECTION
	PROPOSED CONSTRUCTION ENTRANCE
	SILT FENCE
	ORGANIC FILTER TUBE (STRAW WATTLE)
	PROPOSED ROCK CHECK DAM
	PROPOSED OVERFLOW STRUCTURE
	PROPOSED INLET PROTECTION

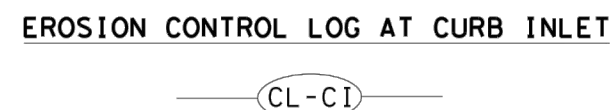
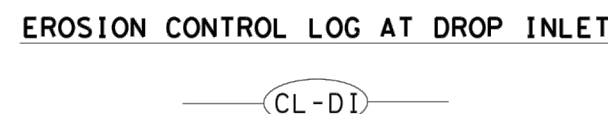
NOTE:
EROSION CONTROL MEASURES MAY ONLY BE PLACED IN FRONT OF INLETS, IN CHANNELS, DRAINAGE WAYS OR BORROW DITCHES AT RISK OF CONTRACTOR. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOOD DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE. AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGE WAYS, AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREDGE OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.



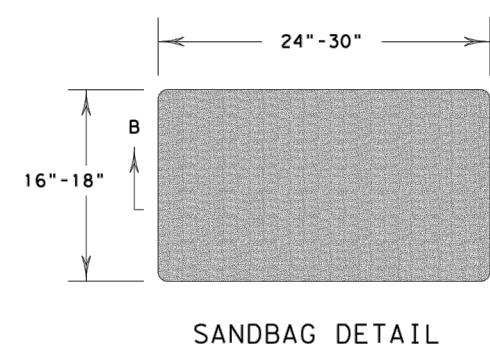
1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
3. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
5. INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.



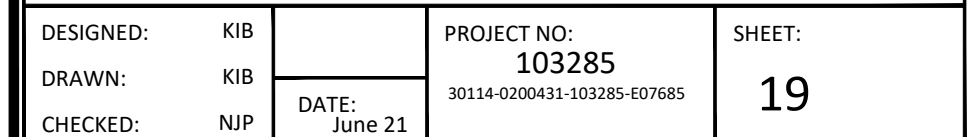
PROJECT BENCHMARK:
City of Fort Worth Monument # 9148 Located on I-35 North bound ser.
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road center of a 10' inlet 1' behind the face of curb. Elevation657.19'
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curb. Elevation653.85'

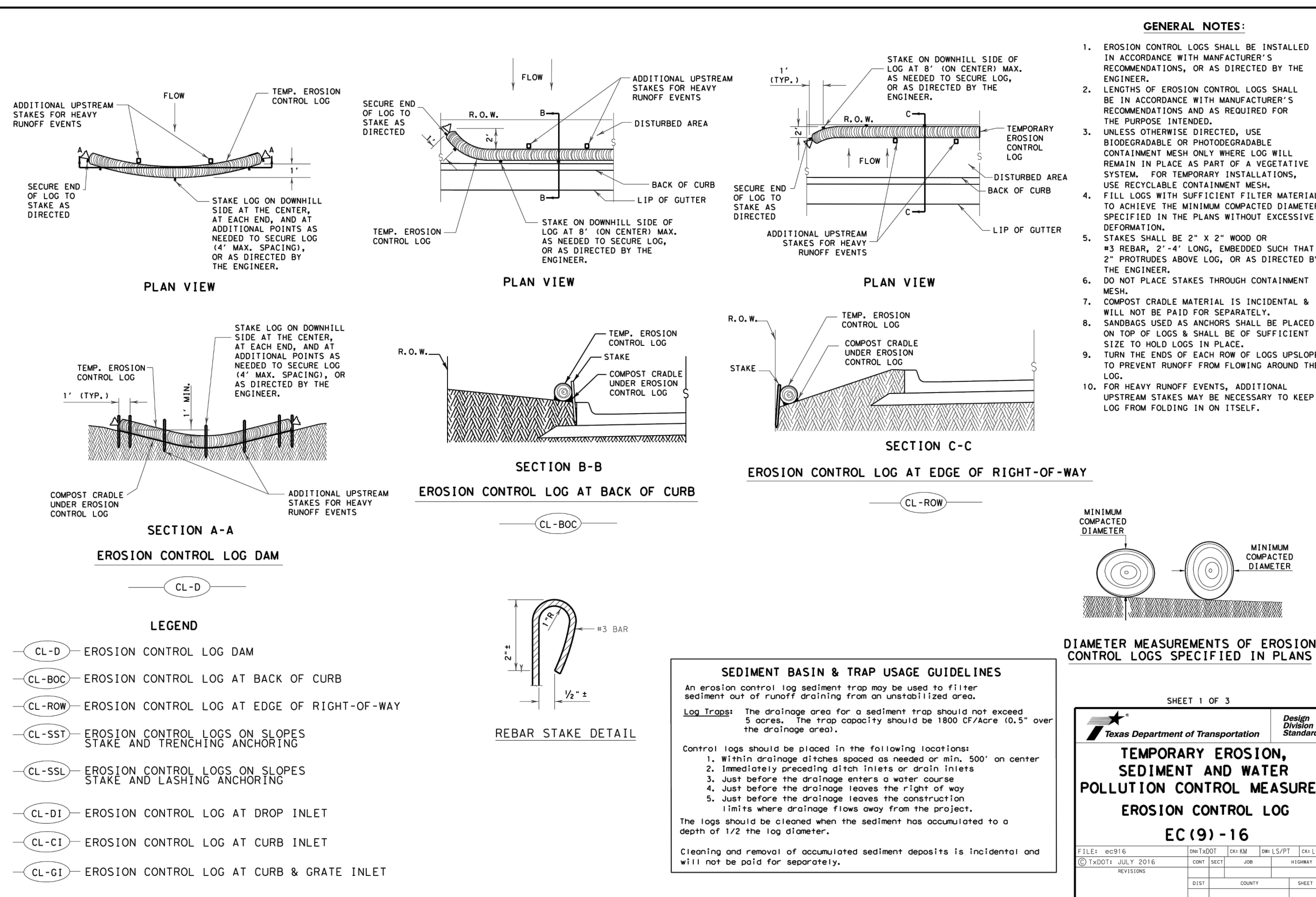


EROSION CONTROL LOG AT CURB & GRADE INLET



FILE: ec916	DN: TxDOT	CR: KM	DN: LS/PT	CR: LS
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY	SHEET NO.	



DATE:
FILE:[illegible]

WARNING TO CONTRACTOR.

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FORT WORTH WATER DEPT (817) 392-8296
FORT WORTH TPW (817) 392-8100
TEXAS 811 (LOCATING SERVICE) 811

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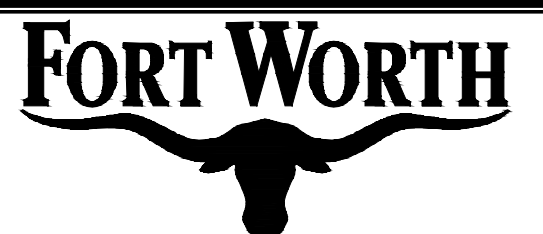
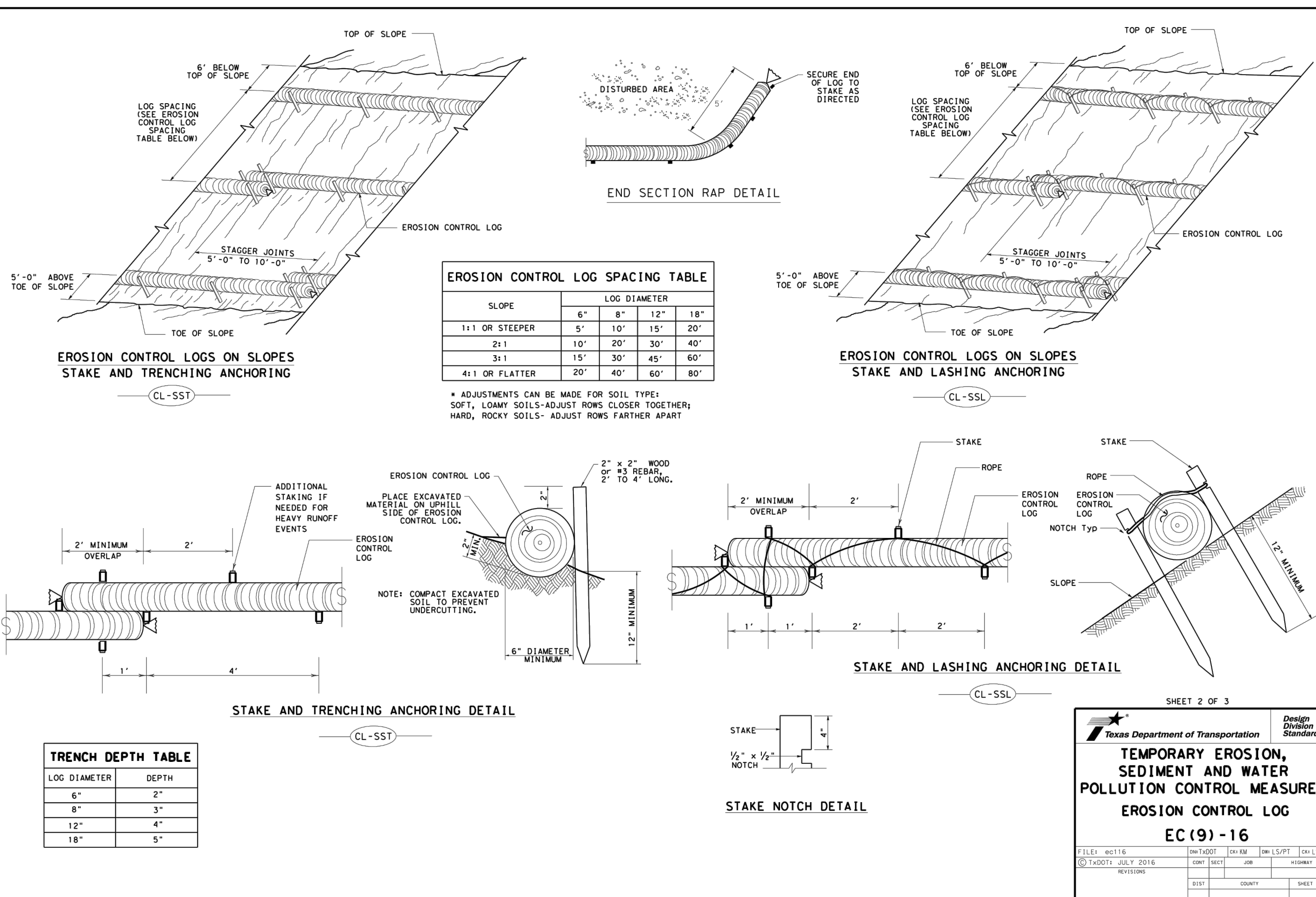
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DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE: _____

DISCLAIMER: The use of TTYroot assumes



550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107
Tel: 817.335.1121
(TX REG. F-1114)

TOLIVER RV DEALERSHIP

EROSION CONTROL DETAILS

DESIGNED:	KIB	PROJECT NO: 103285 30114-0200431-103285-E07685	SHEET: 20
DRAWN:	KIB		
CHECKED:	NJP DATE: June 21		

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[illegible]

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ser. road 0.9+ mile north of Alliance Blvd. directly across from the
ramp off I-35 for Eagle Parkway in the E. CL of the N bound service
road in the center of a double 10' low point inlet 1' behind the face of
curb.
Elevation 653.856'



Flow

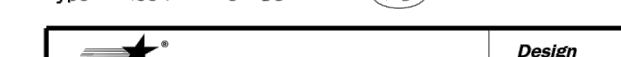
Galvanized Woven Wire Mesh

Type 1 Rock Filter Dam — (RFD1)

Type 2 Rock Filter Dam — (RFD2)

Type 3 Rock Filter Dam — (RFD3)

Type 4 Rock Filter Dam — (RFD4)



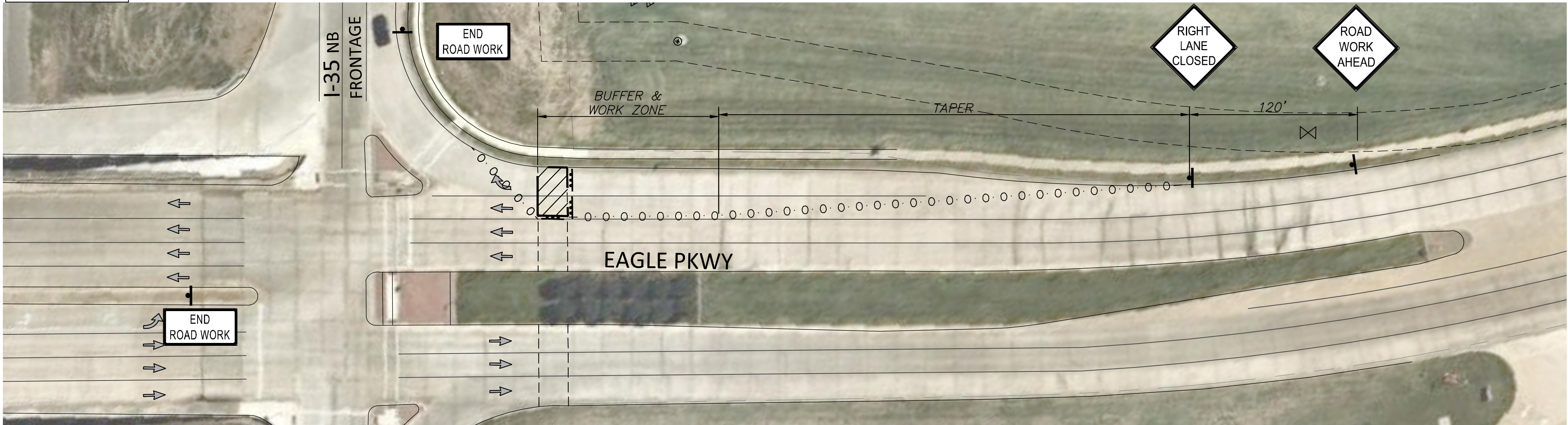
 **DUNAWAY**
550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76102
Tel: 817.335.1121
(TX REG. F-1114)

TOLIVER RV DEALERSHIP

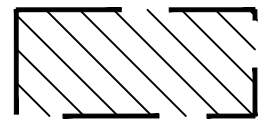
EROSION CONTROL DETAILS

DESIGNED:	KIB	PROJECT NO: 103285 30114-0200431-103285-E07685	SHEET: 21
DRAWN:	KIB		
CHECKED:	NJP	DATE: June 21	

PHASE 1



LEGEND



PROPOSED WORK ZONE

PROPOSED SIGN

PROPOSED TYPE III BARRICADE

PROPOSED CHANNELIZING DEVICES

SPACING @ 30MPH

SIGN SPACING	120 Ft
BUFFER SPACE	90 Ft
MERGING TAPER (L) (12' LANES)	180 Ft

BASED ON TEXAS MUTCD SPACING GUIDELINES

REVISIONS

NO.	DATE	DESCRIPTION

WARNING TO CONTRACTOR:

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UTILITY NOTE:

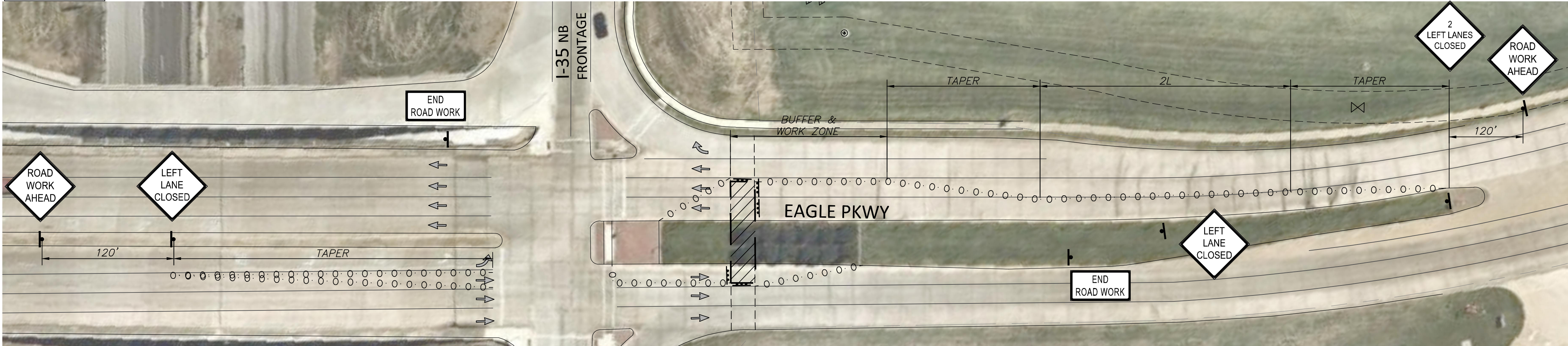
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FORT WORTH WATER DEPT (817) 392-8296
FORT WORTH TPW (817) 392-8100
TEXAS 811 (LOCATING SERVICE) 811

PROJECT BENCHMARK:

City of Fort Worth Monument # 9148 Located on I-35 North bound ser. road 0.65+ mile North of Alliance Blvd. and 125' South of the projected center line of Avon Road from the W in the E. CL of the N bound serv. rd. in the center of a 10' inlet 1' behind the face of curb.
Elevation657.199'
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Elevation653.856'

PHASE 2

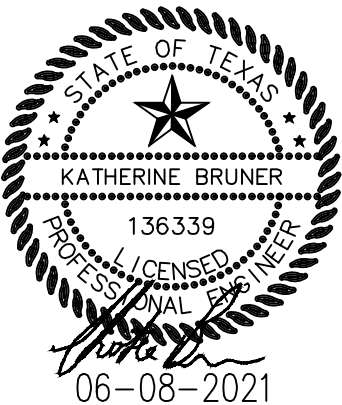
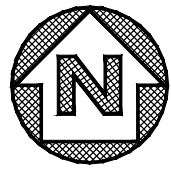


PHASE 3



NOTES:

- ONE LANE EACH WAY ON SHALL REMAIN OPEN AT ALL TIMES.
- ACCESS IN AND OUT OF PRIVATE DRIVES TO BE OPENED AND MAINTAINED AT ALL TIMES.
- SPEED LIMIT ON I-35W ACCESS AND EAGLE PKWY - 45MPH AND INTERSECTION IS 4-WAY STOP CONTROLLED.



FORT WORTH

DUNAWAY

550 Bailey Avenue • Suite 400 • Fort Worth, Texas 76107
Tel: 817.335.1121
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TOLIVER RV DEALERSHIP

TRAFFIC CONTROL PLAN

DESIGNED: KIB	PROJECT NO: 103285	SHEET: 22
DRAWN: KIB	DATE: June 21	
CHECKED: NJP		

TYPICAL SIGNS USED IN TRAFFIC SIGNAL CONSTRUCTION AREAS

R4-7b
24" X 30"

LETTERS — BLACK
SYMBOL — BLACK
BACKGROUND — WHITE REFL.

R20-3
48" X 42"

LETTERS — BLACK
BORDER — BLACK
BACKGROUND — WHITE REFL.

G20-6
48" X 30"

LETTERS — BLACK
BORDER — BLACK
BACKGROUND — ORANGE OR WHITE REFL.

G20-2
48" X 24"

LEGEND — BLACK
BORDER — BLACK
BACKGROUND — ORANGE REFL.

R4-8b
36" X 36"

LEGEND — BLACK
BORDER — BLACK
BACKGROUND — ORANGE REFL.

CW20-5R
36" X 36"

LEGEND — BLACK
BORDER — BLACK
BACKGROUND — ORANGE REFL.

CW20-5L
36" X 36"

LEGEND — BLACK
BORDER — BLACK
BACKGROUND — ORANGE REFL.

CW1-60
30" X 30"

LEGEND — BLACK
BORDER — BLACK
BACKGROUND — ORANGE REFL.

CW20-5G-10
36" X 36"

LEGEND — BLACK
BORDER — BLACK
BACKGROUND — ORANGE REFL.

FCW20-7a
36" X 36"

LEGEND — BLACK
BORDER — BLACK
BACKGROUND — ORANGE REFL.

GENERAL

- ALL SIGN USAGE AND ERECTION SHALL BE IN STRICT ACCORDANCE WITH THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (TMUTCD) LATEST EDITION.
- THE CONTRACTOR SHALL MAINTAIN EACH SIGN AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL USE THE SIGN DESIGNS SHOWN IN THE "STANDARD HIGHWAY SIGN DESIGNS FOR TEXAS" (SHSD). ALL WORK ZONE SIGNS PROVIDED AND SHOWN IN THE TMUTCD BUT NOT DETAIL IN THE PLANS MAY BE USED WHEN DIRECTED BY THE ENGINEER.

REFLECTIVE SHEETING

- REFLECTORIZED SIGNS SHALL BE CONSTRUCTED OF SHEETING MEETING THE COLOR AND RETRO-REFLECTIVITY REQUIREMENTS OF DMS-8300 OR DMS-8310.
- WHITE SHEETING, MEETING THE REQUIREMENTS OF DMS-8300 TYPE C (HIGH SPECIFIC INTENSITY) SHALL BE USED FOR SIGNS WITH WHITE BACKGROUND AND CHANNELIZING DEVICES.
- ORANGE SHEETING, MEETING THE REQUIREMENTS OF DMS-8300 TYPE E (FLUORESCENT PRISMATIC), SHALL BE USED FOR SIGNS WITH ORANGE BACKGROUNDS.

SUPPORTS AND MOUNTING HEIGHT

- REGARDLESS OF THE TYPE OF SUPPORT USED, OR DURATION OF WORK, REGULATORY SIGNS SHOULD NOT BE ERECTED AT HEIGHTS LESS THAN 7 FEET ABOVE THE PAVEMENT SURFACE. THE CONTRACTOR SHALL FURNISH SIGN SUPPORTS LISTED IN THE "COMPLIANT WORK WOOD SIGN POST SUPPORTS ZONE TRAFFIC CONTROL DEVICE LIST" (CWZTCD). SHALL BE PAINTED WHITE.
- SIGNS MAY BE ERECTED ON PORTABLE OR FIXED SUPPORTS FOR USE ON CONSTRUCTION PROJECTS TO WARN OR GUIDE TRAFFIC THROUGH AND/OR AROUND THE ACTUAL CONSTRUCTION AREA.
- THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL SIGN SUPPORTS AND SUBSTRATE MEET CRASHWORTHINESS AND LENGTH OF WORK REQUIREMENTS.
- PORTABLE — SIGNS ERECTED ON PORTABLE SUPPORTS FOR USE ON CONSTRUCTION PROJECTS NORMALLY MEAN SIGNS THAT ARE TO REMAIN IN PLACE FOR BOTH DAYTIME AND NIGHTTIME USAGE TO REGULATE, WARN AND GUIDE TRAFFIC IN ADVANCE OF AND WITHIN THE LIMITS OF THE PROJECT INCLUDING THE CROSSROAD APPROACHES. SIGNS ERECTED ON FIXED SUPPORTS SHOULD BE AT A MINIMUM HEIGHT OF SEVEN (7) FEET.
- FIXED — SIGNS ERECTED ON FIXED SUPPORTS FOR USE ON CONSTRUCTION PROJECTS NORMALLY MEAN SIGNS THAT ARE TO REMAIN IN PLACE FOR BOTH DAYTIME AND NIGHTTIME USAGE TO REGULATE, WARN AND GUIDE TRAFFIC IN ADVANCE OF AND WITHIN THE LIMITS OF THE PROJECT INCLUDING THE CROSSROAD APPROACHES. SIGNS ERECTED ON FIXED SUPPORTS SHOULD BE AT A MINIMUM HEIGHT OF SEVEN (7) FEET.

SIGN SUPPORT WEIGHTS

- WHERE SIGN SUPPORTS REQUIRE THE USE OF WEIGHTS TO KEEP FROM TURNING OVER, THE USE OF SOME TYPE OF SANDBAG IS RECOMMENDED. THE USE OF PIECES OF ROCK, CONCRETE, IRON, STEEL OR OTHER SOLID OBJECTS WILL NOT BE PERMITTED. SANDBAGS SHALL ONLY BE PLACED ALONG OR UPON THE BASE SUPPORTS OF THE DEVICE AND SHALL NOT BE SUSPENDED ABOVE GROUND LEVEL OR HUNG WITH ROPE, WIRE, CHAINS OR OTHER FASTENERS.

REMOVING OR COVERING

- WHEN SIGN MESSAGES MAY BE CONFUSING OR NO LONGER APPLY, THE SIGNS AND SUPPORTS SHALL BE REMOVED FROM ROADWAY AND SHOULDER, OR THE SIGNS SHALL BE COMPLETELY COVERED. TURNING SIGNS FROM MOTORISTS VIEW WILL NOT BE ALLOWED. WHEN SIGNS ARE COVERED THE MATERIAL USED SHALL BE OPAQUE, SUCH AS HEAVY MIL BLACK PLASTIC. BURLAP SHALL NOT BE USED TO COVER SIGNS. SIGNS SHALL BE REMOVED UPON COMPLETION OF THE WORK.
- DUCT TAPE OR OTHER ADHESIVE MATERIAL SHALL NOT BE AFFIXED TO SIGN FACE.

TYPICAL SIGN SUPPORTS

FIXED SUPPORTS

WOOD POST SIGN SUPPORT:
FOR 36" X 36" AND SMALLER WARNING SIGNS, AND OTHER SIGNS HAVING AN AREA NOT EXCEEDING 10 SQ.FT.

SIGNS ERECTED ON FIXED SUPPORTS SHALL BE AT A MINIMUM HEIGHT OF 7 FEET. EMBEDMENT DEPTH FOR WOOD SIGN SUPPORTS AND POST TYPE BARRICADES SHOULD BE 3 FEET MINIMUM, UNLESS SPECIFIED ELSEWHERE IN THE PLANS. DRIVEABLE SIGN SUPPORTS MAY BE USED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

PORTABLE SUPPORTS

WOOD POST SIGN SUPPORT:
FOR 48" X 48" WARNING SIGN.

TYPE I BARRICADES

BARRICADES SHALL NOT BE USED FOR SIGN SUPPORT.

2' MIN., VARIABLE MAX.

3'-0" MIN.

2X6 (OPTIONAL)

TYPE (R)

2' MIN., VARIABLE MAX.

3'-0" MIN.

2X6 (OPTIONAL)

TYPE (L)

FOR TYPE 1 AND 2 BARRICADES, BOTH SIDES OF THE RAILS SHALL HAVE REFLECTIVE ORANGE AND REFLECTIVE WHITE STRIPING MEETING THE COLOR AND RETRO-REFLECTIVITY REQUIREMENTS OF DMS-8300 OR DMS-8310.

CITY OF FORT WORTH, TEXAS

TRAFFIC CONTROL TYPICAL SIGNS AND BARRICADES

REVISED: 08-31-2012

34 71 13-D661

REVISIONS		
NO.	DATE	DESCRIPTION

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TRAFFIC CONTROL DETAILS

DESIGNED: KIB	PROJECT NO: 103285 30114-0200431-103285-07685	SHEET: 23
DRAWN: KIB		
CHECKED: NJP		
DATE: June 21		