

December 17, 2024 AVO 37449.004

Ms. Ramie Hammonds Development Services Director/Building Official City of Sanger 201 Bolivar Street P.O. Box 1729 Sanger, Texas 76266

#### Re: Oasis at Sanger Addition Final Plat and Civil Plans -Review #3

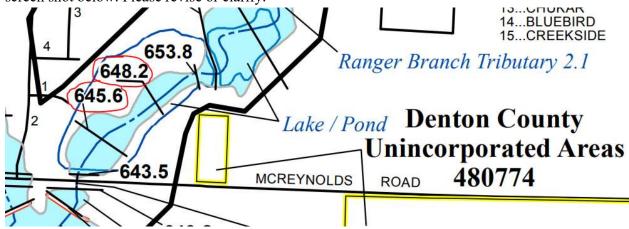
Dear Ms. Hammonds,

Halff Associates, Inc. was requested by the City of Sanger to review the <u>Final Plat and Civil Plans</u> for the Oasis at Sanger. The first submittal was prepared by Middleton and Associates, LLC and was dated September 13, 2024. This submittal was received December 04, 2024.

Please address comments on attached markups and provide annotated responses on markups. Please note, not all comments are written on letter since some comments are easier to show and explain on the markups. Please annotate markup with responses.

### **Drainage Calculation Comments**

- 1. Please revise overland flow Roughness Coefficient to 0.24 since site appears to be covered with dense grasses for Time of Concentration calculations. (**iSWM Hydrology Table 1.10**)
- 2. Please update intensities per Appendix A for 15-minute time of concentration for both 10 year and 100-year storm events as 6.6 and 9.6 respectively.
- Hydraulic Calculation table in Sheet CALC1 shows some velocities in storm drain pipe to be less than 2.5 fps. Please revise to meet the required minimum velocity of 2.5 fps. (10.106(d)(6))
- 4. The tailwater conditions for outfall pipes appear to be very different from the LOMR. See screen shot below. Please revise or clarify.



Ms. Ramie Hammonds December 17, 2024 Page 2 of 2

5. It appears that the last section of ditch doesn't meet the 1' freeboard requirements. See the markups. Please revise or clarify.

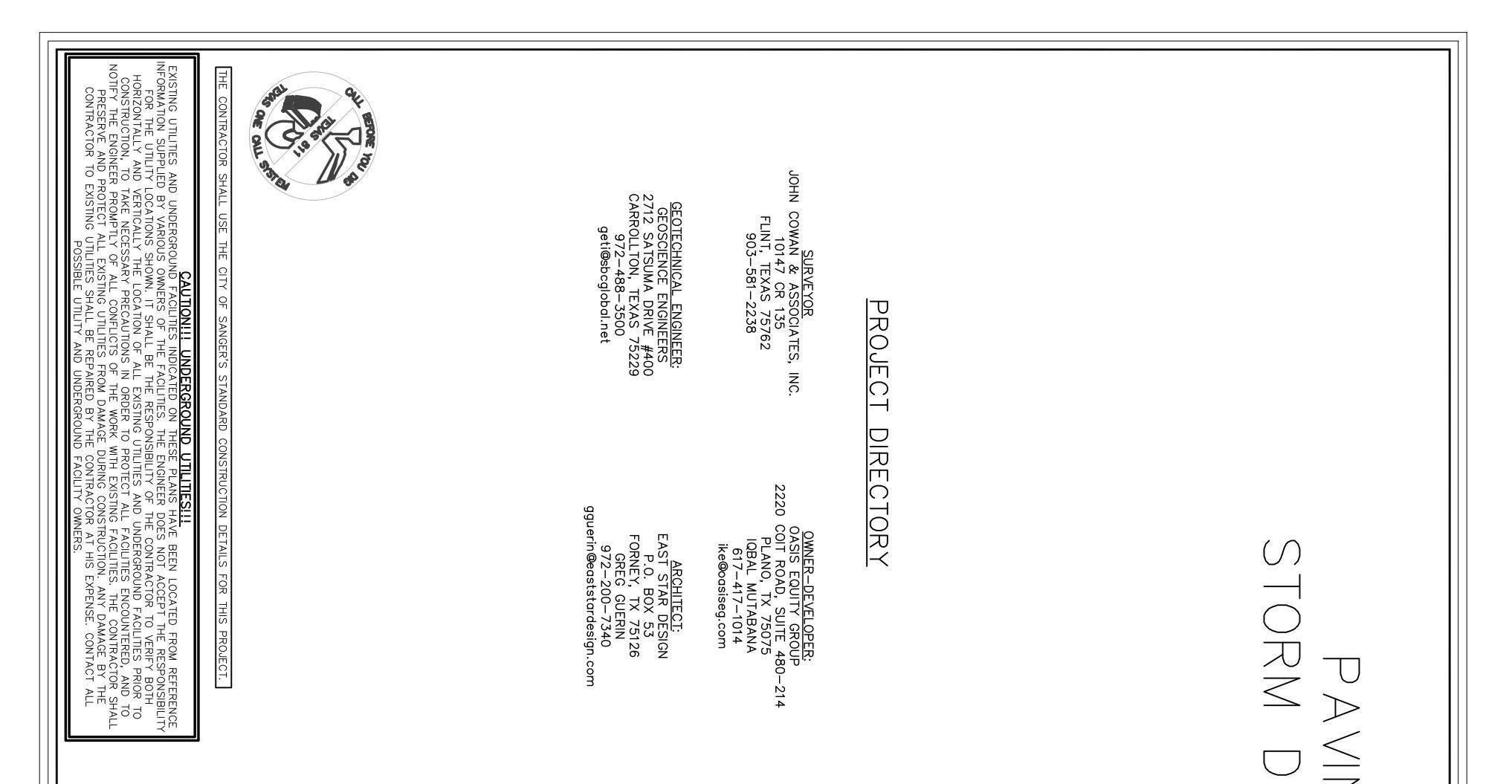
## **Irrigation** Plan

1. The storm layout does not appear to match civil plans. Verify and revise irrigation plans accordingly.

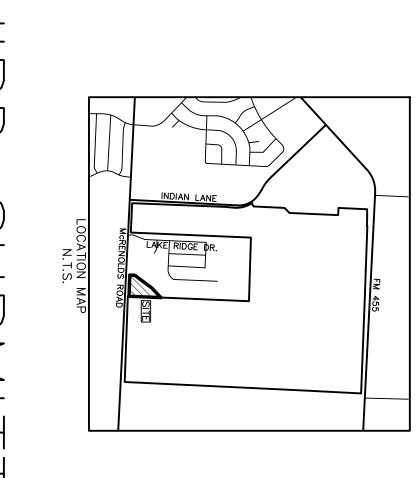
If you have any questions or need additional information, please do not hesitate to call me at (817) 764-7498.

Sincerely,

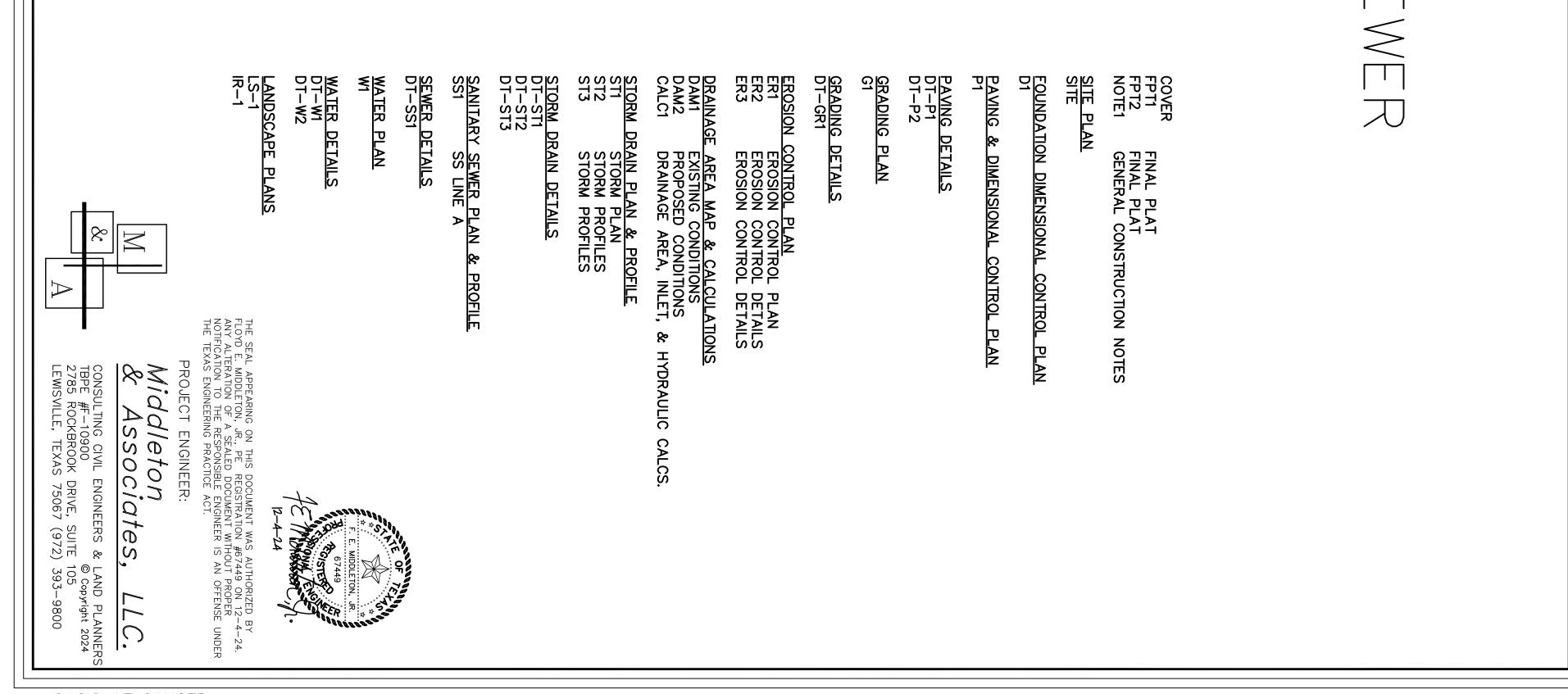
Samson Lotigo, PE HALFF Firm No. 0312 Attachments: Plans markups



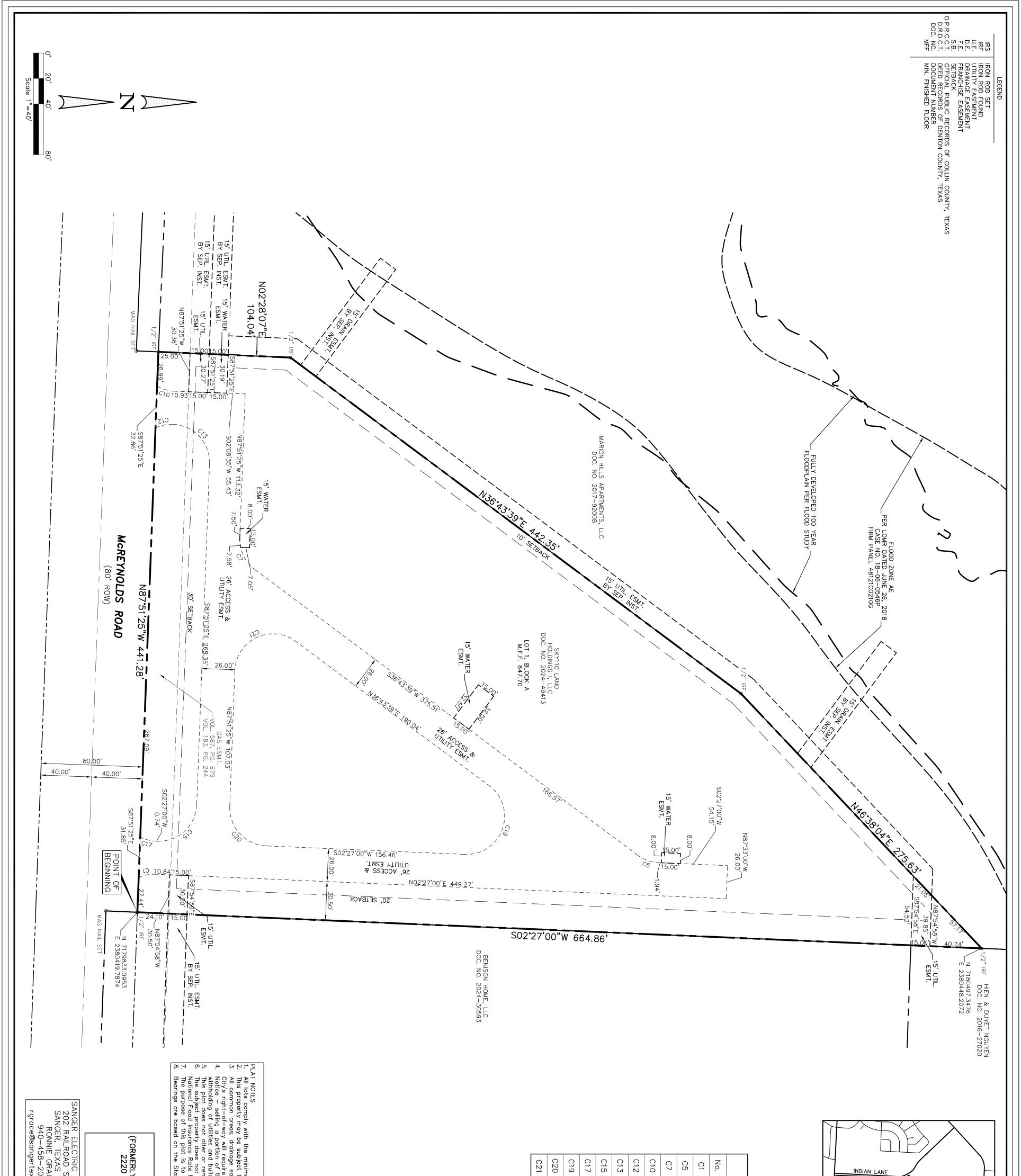




# THIRD SUBMITTAL FOR REVIEW ONLY 12-4-24



OASIS AT SANGER



rtexas.		to c	1     1 <th></th>	
us.org	OWNER-DEVELOPER: OASIS EQUITY GROUP         RLY SKY110 LAND HOLDINGS I, L         20 COIT ROAD, SUITE 480–214         PLANO, TX 75075         IQBAL MUTABANA         617-417-1014         ike@oasiseg.com         NORTEX COMMUNITIES         NORTEX COMMUNITIES         NORTEX COMMUNITIES         NUTREET         AS 76206	inimum size requirements of MF-2 multi-fami set to charges related to impact fees and the e easements, and detention facilities will be to optime a facilities agreement, to be reviewed an of this addition by metes and bounds is a vic building permits. remove existing deed restrictions, if any, on not lie within a 100-year floadplain according ate Maps for Denton County, Texas. to create one multi-family lot.	RIDGE         McRENOLDS F         LOCATION M         26°07'51"         34°16'39"         55°24'56"         27°04'43"         27°04'43"         90°18'24"         90°18'24"         145°43'21"         124°35'04"	FM
sevc	ND HOLDINGS I SUITE 480–21 ( 75075 TABANA -1014 eg.com NORTEX COM 205 N. W	ments of N eed to impo- eement, to metes and h County, T	Cur: Radius 30.00' 30.00' 30.00' 30.00' 30.00' 30.00' 30.00' 30.00' 30.00' 30.00' 30.00' 30.00'	M 455
HAY EVAN -0-759-22 Ins@nortex	N, Texas North	AF-2 multi- locilities will be review and dplain accor revas.	Image: New Sector of Control of Con	
	LLC)	multi-family resides and the application will be owned and approved and approved a violation f any, on this praceording to Control t	ole       Ch. Dist.       13.56'       17.68'       27.90'       14.05'       42.33'       57.34'       53.12'	
	Zone (4202), No	family residential. I the applicant should contact be owned and maintained by the a violation of City ordinance and on this property. ding to Community Panel No.	Bearing           N10°36'55"W           S19°35'20"W           S16°07'51"W           N11°39'54"W           N47°16'39"E           S14°52'39"W           S70°24'40"E           S47°17'48"W           N25°33'53"W	
	th American [	of the City regar the HOA/POA. , and State Law ,		
	Datum of 198	and is subje dated APRIL		
	3 (NAD '83)	plicable fees a area within ct to fines 18 2011, o		
		f due.	No. DATE REVISION A	APPROV.
	Date: 12-4-24	FINAL PLAT - OASIS AT SANGER ADDITION	SURVEYOR Middleton & Assoc, I	
FPT1	Dwg Scale: 1"=40' Dwg File: 0123001FPT.DWG Project No. 0123001	4.135 ACRES 1 MULTI–FAMILY LOT REUBEN BEBEE SURVEY, ABST. NO. 29 CUTY OF SANCER DENTON COUNTY TEVAS	JOHN COWAN & ASSOCIATES, INC. 10147 CR 135 FLINT, TEXAS 75762 PH: (903) 581–2238 WWW.TXSURVEYS.COM FIRM REGISTRATION CERTIFICATION NO. 10025500 M M M M CONSULTING CIVIL ENGINEERS & LAND PLA © Copyright 2785 ROCKBROOK DRIVE, SUITE 105 LEWISVILLE, TEXAS 75067 (972) 393–9800	ANNERS 2024
		CITY OF SANGER, DENTON, COUNTY, TEXAS		

# STATE OF TEXAS COUNTY OF DENTON

We the undersigned owners of the land shown on this plat within the area described by metes and bounds as follows:

All that certain lot, tract, or parcel of land, being part of the Rueben Bebee Survey, Abstract No. 29, Denton County, Texas, and being a part of that certain called 4.31 acre tract of land described in a deed to Sky110 Land Holdings I, LLC, recorded in Document No. 2024–49413 of the Real Property Records of Denton, County, Texas (RPRDCT) being more completely described as follows, to-wit:

BEGINNING at a 1/2" iron rod (found) for the southeast corner of the Sky110 Land Holdings I, LLC tract, the west line of that certain called 151.67 acre tract of land described in a deed to Hien T. Nguyen and Duyet Nguyen recorded in Document No. 2016—27020 (RPRDCT) and the north right of way line of McReynolds Road (an 80' right of way);

THENCE North 87°51'25" West with the north right of way line of McReynolds Road a distance of 441.28 feet to a 1/2" iron rod (found) for the southwest corner of the Sky110 Land Holdings I, LLC tract;

THENCE North 02°28'07" East a distance of 104.04 feet to a 1/2" iron rod (found) for corner; THENCE North 36°43'39" East a distance of 442.35 feet to a 1/2" iron rod (found) for corner; THENCE North 46°38'04" East a distance of 275.63 feet to a 1/2" iron rod (found) for the north corner of the Sky110 Land Holdings I, LLC tract in the west line of the Hien T. Nguyen and Duyet Nguyen tract;

THENCE South 02°27'00" West with the west line of the Hien T. Nguyen and Duyet Nguyen tract a distance of 664.86 feet to the place of beginning, containing 4.135 acres, or 180,123 square feet of land.

# STATE OF TEXAS COUNTY OF DENTON

I HEREBY CERTIFY THAT THIS PLAT IS TRUE AND CORRECT AND WAS PREPARED FROM AN ACTUAL SURVEY OF THE PROPERTY MADE ON THE GROUND UNDER MY SUPERVISION.

REGISTERED PUBLIC LAND SURVEYOR TEXAS R.P.L.S. NO. 5515 DATE



NOW, THEREFORE, KNOW ALL PERSONS BY THESE PRESENTS:

THAT, \_\_\_\_\_\_\_\_ acting herein by and through its duly authorized officer, does hereby adopt this plat designating the hereinabove described property as OASIS AT SANGER ADDITION, an addition to the City of Sanger, Texas, and does hereby dedicate to the public use forever by fee simple title, free and clear of all liens and encumbrances, all streets, thoroughfares, alleys, fire lanes, drive aisles, storm drainage facilities, utilities and any other property necessary to serve the plat and to implement the requirements of the subdivision regulations and other City codes and do hereby bind ourselves, our heirs, successors and assigns to warrant and to forever defend the title on the land so dedicated. Further, the undersigned covenants and agrees that he/she shall maintain all easements and corr other improvements or growths shall be constructed or placed upon, over, or accoss the easements as shown, except that landscape improvements may be installed, if approved by the City of Sanger. The City of Sanger and public utility entities shall have the right to access and maintain all respective easements without the necessity at any time of procuring permission from anyone. 2024.

\_\_\_\_\_, Owner

-\_\_\_, Title and Company

State of Texas County of Denton

Before me, the undersigned authority, on this day personally appeared \_\_\_\_\_\_\_\_\_, known to me to be the person whose name is subscribed to the foregoing instrument, and acknowledged to me that he/she executed the same for the purposes and considerations therein expressed and in the capacity therein stated.

Given under my hand and seal of office this \_\_\_\_ day of \_\_\_\_\_

2024.

Notary Public in and for the State of Texas

Print Notary's Name

My Commission Expires \_\_\_\_

City Secretary Date Date	Approved and Accepted       Chairman, Planning & Zoning Commission       City of Sanger, TX       Mayor       City of Sanger, TX       Date       City of Sanger, TX				
				No. DATE	REVISION APPROV.
FPT2	Date: 12-4-24 Dwg Scale: 1"=40' Dwg File: 0123001FPT.DWG Project No. 0123001	FINAL PLAT – OASIS AT SANGER ADDITION 4.135 ACRES 1 MULTI-FAMILY LOT REUBEN BEBEE SURVEY, ABST. NO. 29 CITY OF SANGER, DENTON, COUNTY, TEXAS	SURVEYOR JOHN COWAN & ASSOCIATES, INC. 10147 CR 135 FLINT, TEXAS 75762 PH: (903) 581–2238 WWW.TXSURVEYS.COM FIRM REGISTRATION CERTIFICATION NO. 10025500	IVI     CONSULTIN       &     TBPE #F-       2785 ROC	eton & Assoc, LLC. NG CIVIL ENGINEERS & LAND PLANNERS 10900 © Copyright 2024 KBROOK DRIVE, SUITE 105 E, TEXAS 75067 (972) 393-9800

GRADING GENERAL NOTES:
1. TOP SOIL SHALL NOT BE REMOVED FROM RESIDENTIAL LOTS OR USED AS SPOIL, BUT SHALL BE STRIPPED AND REDISTRIBL INCHES OF COVER ON THE LOTS, PARKWAYS AND MEDIANS. PERMANENT EROSION CONTROL MEASURES SHALL BE PROVIDED FINAL ACCEPTANCE OF THE IMPROVEMENTS.
2. TEMPORARY EROSION CONTROL SHALL BE USED TO MINIMIZE THE SPREAD OF SILT AND MUD FROM THE PROJECT ON TO E PUBLIC AND PRIVATE PROPERTY. TEMPORARY EROSION CONTROLS MAY INCLUDE SILT FENCES, STRAW BALES, BERMS, DIKES VEGETATION, CHECK DAMS AND OTHER METHODS AS REQUIRED BY THE CITY ENGINEER OR HIS REPRESENTATIVE AND AS S COUNCIL OF GOVERNMENTS CONSTRUCTION (N.C.T.C.O.G) ISWM DESIGN MANUAL FOR CONSTRUCTION.
3. ALL STREET RIGHTS-OF-WAY, REGARDLESS OF SUOPE: ALL FINISHED GRADE SLOPES THAT ARE STEEPER THAN 6:1; AND AND SWALES SHALL BE COMPLETELY COVERED WITH EROSION CONTROL MATTING AS SPECIFIED IN THE NORTH CENTRAL TE: (N.C.T.C.O.G) ISWM DESIGN MANUAL.
4. GRASS SHALL BE ESTABLISHED ON THE SLOPES OF ALL DRAINAGE CHANNELS THAT ARE STEEPER THAN 6:1. GRASS SHALL SPECIFICATIONS OF THE TEXAS DEPARTMENT OF TRANSPORTATION.
5. ALL PERMEABLE SURFACES WITHIN THE DEVELOPMENT SHALL BE GRADED TO A SMOOTH AND UNIFORM APPEARANCE THAT RESIDENTIAL RIDING LAWN MOWER.
6. ALL FILL DIRT PLACED WITHIN THE DEVELOPMENT SHALL BE GRADED TO AT LEAST 95% SPD WITHIN 2% POINTS OF THE OTT REPORT BY GEOSCIENCE ENGINEERS, PROJECT NO. 24-DG2829, DATED JUNE 2024. WATER GENERAL NOTES
I. WATER SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE CITY OF SANGER CONSTRUCTION SPECIFICATIONS.
EXISTING CALL SERVICE AND DETAILS SHALL CONFORM TO THE CITY OF SANGER STANDARDS.
EXISTING UTILITY DATA IS PROVIDED FOR INFORMATION ONLY. ALTHOUGH THIS DATA IS SHOWN AS ACCURATELY AS POSSI DEVELOPER'S SURVEYOR IS TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES FUND FOR THE ACCURACY OF THIS DATA.
THE CONTRACTOR IS TO VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES FUND THE ENGRET CONSTRUCTION.
DEVELOPER'S SURVEYOR IS RESPONSIBLE FOR ALL CONSTRUCTION SURVEYING TO COMPLETE THIS PROLECT.
DEVELOPER'S SURVEYOR IS RESPONSIBLE FOR ALL CONSTRUCTION OF EXISTING UTILITIES FUND THE FOR CLARING TO CONSTRUCTION.
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DEVELOPER'S SURVEYOR IS RESPONSIBLE FOR ALL CONSTRUCTION OF EXISTING UTILITIES HOW OTHERWSE IN THESE PLOYED THAN AND ELEVATION OF EXISTING UTILITIES AND RESPONSIBLIE'S AND RESPONSIBLE FOR AND SURVEY DENSITY (ASTIM D-698) BY
THACER TAPE SHALL BE NATHELIED OVER PLOY MAINS
TAGER FOR TAPE SHALL BE A MINIMUM OF 3' BEHIND THE FACE OF THE CURB UNLESS OTHERWSE IN THESE PLOYED BY THE CONTRACTOR.
TRACET FOLLY PIG IN WATER MAIN MAIN MURIER DEP OF AUX BELLED OVER PLOY MAINS
THACENT FOLLY PIG IN WAITER MAIN SHALL BE AND SUBJED THE FACE OF THE CURB UNLESS OTHERWSE IN THESED DETSING VERTIFIES SHALL BE AS SHOWIN IN THE CONSTRUCTION DETAILS FOR 1-1/2" AND SMALLER METERS. LARGER METERS IN THE STELL PLOYED AND MAINED BY SHALL BE AS SHOWIN IN THE CONSTRUCTION DETAILS FOR 1-1/2" AND SMALLER METERS. LARGER METERS IN CONSTRUCTION TRACTOR SHALL BE AND SHALL BE PLOYED DUCTION OF ANGER.
THTINGS SHALL BE ANDIAND MOSTING CONSTRUCTION DETAILS FOR 1-1/2" AND SMALLER METERS. LARGER METERS IN THE AND SHALL BE AND SHALL BE CALASS 250.
MENDALOR SHALL BE AND MAINS SHALL BE DRAINAGE GENERAL NOTES:
1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS "STANDA CONSTRUCTION" LATEST EDITION AND THE CITY OF SANGER'S ADDIDUMU THERETO.
2. ALL STORM SEWER PIPE SHALL BE CLASS III RCP, ASTM C76, UNLESS OT HERMISE NOTED.
3. SEE WATER PLANS, SANTARY SEWER PLANS, AND PAVING PLAN AND PROFILE FOR ADDITIONAL INFORMATION RELATING TO CONTENT AT OR ABOVE THE OPTIMUM MOISTURE CONTENT.
3. SEE WATER PLANS, SANTARY SEWER PLANS, AND PAVING PLAN AND PROFILE FOR ADDITIONAL INFORMATION RELATING TO CONTENT AT OR ABOVE THE OPTIMUM MOISTURE CONTENCTION STANDARDS.
5. THE LOCATION OF EXISTING UTILITIES INDICATED IN THESE PLANS ARE TAKEN FROM EXISTING PUBLIC RECORDS. THE EXACT UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR SAND CONTRACTOR SHALL DETERMINE WHETHER ANY ADDITIONAL FA MAY BE PRESENT.
6. ALL CONCRETE USED IN THE CONSTRUCTION OF STORM SEWER MANHOLES, INLETS, BOX CULVERTS, ETC. SHALL BE CLASS 3600 PS IAT 28 DAYS. THE CONSTRUCTION OF STORM SEWER MANHOLES, INLETS, BOX CULVERTS, ETC. SHALL BE CLASS 3600 PS IAT 28 DAYS. THE CONSTRUCTION OF STORM SEWER MANHOLES, INLETS, BOX CULVERTS, ETC. SHALL BE CLASS 3600 PS IAT 28 DAYS. THE CONSTRUCTION OF STORM SEWER MANHOLES, INLETS, BOX CULVERTS, ETC. SHALL BE CLASS 3600 PS IAT 28 DAYS. THE CONSTRUCTION OF STORM SEWER MANHOLES, INLETS, BOX CULVERTS, ETC. SHALL BE CLASS 3600 PS IAT 28 DAYS. THE CONSTRUCTION OF STORM SEWER MANHOLES, INLETS, BOX CULVERTS, INTO SHALL BE RESPONSIBLE FOR THE TESTING OF THE TESTING OF THE ISTERDED IN THE STORM SEWER FACILITES SHALL CONFORM TO THE SPECIFICATIVE AND DITY REPRESENTATIVES RECARD 3600 PS IAT 28 DAYS. THE CONSTRUCTION READ PROPOSED SUBGRADE TO WITHIN ONE-TENTH (0.1') FEET OF ESTABLISHED DRAINAGE FACILITIES. SHOULD BE AT OR NEAR PROPOSED SUBGRADE TO WITHIN ONE-TENTH (0.1') FEET OF ESTABLISHED DRAINAGE FACILITIES.
1.1. ALL RECORDED INSPECTION INFORMATION FOR STORM DRAIL INFORMATION IS REQUIRED FOR ACCEPTANCE OF STORM D .3 ? .1 ¥A DRAINAGE 9. 10. 1. 1. 22. 17. 18. 19. 20. 12. 13. 14. ი. 2 2 .\_\_\_\_ 23. 21. 16. ဖစ် 4. <sup>7</sup>. 9. 1. .8 .√ ν. 4.0 ν. 4 VING GENERAL NOTES: ALL EMBANKMENT, SUBGRADE, AND TREATED SOILS SHALL BE COMPACTED AT A MOISTURE CONTE 95%. STANDARD PROCTOR (ASTM D-698) SHOULD BE USED FOR CLAY SOILS AND TEX 113 E SHO ACCORDANCE WITH TXDOT METHODS. THE MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE PAVING SHALL NOT BE LESS THAN SHALL BE AIR ENTRAINED. WATER MAY NOT BE APPLIED TO THE SURFACE OF CONCRETE PAVING ALL CURB AND GUTTER SHALL BE INTEGRAL WITH THE PAVEMENT. STREETS AND ALLEYS SHALL BE CONSTRUCTED WITH PROVISIONS FOR SIDEWALK RAMPS AT ALL I CONTENT AT OR ABOVE E SHOULD BE USED FOR INTERSECTIONS 3,600 PSI (CLASS TO IMPROVE WORK

- 2
- THE CONTRACTOR SHALL FURNISH A TRAFFIC CONTROL PLAN, FOR ALL WORKING AREAS, TO THE CITY TRAFFIC ENGINEER FOR ADEQUATE SAFEGUARDS WILL BE ACCEPTABLE ON MINOR STREETS ONLY. ALL BARRICADES, WARNING SIGNS, LIGHT DEVICES, PROTECTION OF TRAFFIC AND PEDESTRIANS, MUST CONFORM TO THE INSTALLATION SHOWN IN THE 1980 TEXAS MANUAL ON CURRENTLY AMENDED, TEXAS DEPARTMENT OF TRANSPORTATION. THE COST FOR TRAFFIC CONTROL SHALL BE SUBSIDIARY TO PROFESSIONAL ENGINEER FOR THIS PROJECT. A TRENCH SAFETY THE CONTRACTOR SHALL CONJITION THE PROPOSED WORK UTILIZIN SPECIFICATIONS AND DETAILS, EXCEPT WHERE MODIFIED IN THESE PLANS OR IN THE SPECIAL CONDITIONS OF THE CONTRACTOR SHALL DISTRIBUTE LETTERS TO ALL AFFECTED PROPERTY OWNERS PRIOR TO BEGINNING WORK ON EACH PE SHALL BE FOR WINBERS OF CONTRACTOR. THE CONTRACTOR SHALL NOTIFY RESIDENT OB BEGINNING WORK OF LETTERS SHALL BE CONSIDERED AS SUBSIDIARY TO DISTRIBUTION OF LETTERS SHALL BE CONSIDERED AS SUBSIDIARY TO THE COST OF PROJECT AND NO ADVANCE OF PER DISTRIBUTION OF LETTERS SHALL BE CONTRACTOR. THE CONTRACTOR SHALL NOTIFY RESIDENT 48 HOURS IN ADVANCE OF PER DISTRIBUTION OF LETTERS SHALL BE CONSIDERED AS SUBSIDIARY TO THE COST OF PROJECT AND NO ADVANCE OF PER DISTRIBUTION OF LETTERS SHALL BE CONSIDERED AS SUBSIDIARY TO THE COST OF PROJECT AND NO ADVANCE OF PER DISTRIBUTION OF LETTERS SHALL BE CONSIDERED AS SUBSIDIARY TO THE COST OF PROJECT AND NO ADVANCE OF PER DISTRIBUTION OF LETTERS SHALL BE CONSIDERED AS SUBSIDIARY TO THE COST OF PROJECT AND NO ADVANCE OF PER DISTRIBUTION OF LETTERS SHALL BE CONSIDERED AS SUBSIDIARY TO THE COST OF PROJECT AND NO ADVANCE OF PER AFFECTED PROPERTY OWNERS, IF NECESSARY. NOT A SEPARATE PAY ITEM.
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OWNER

48 HOURS

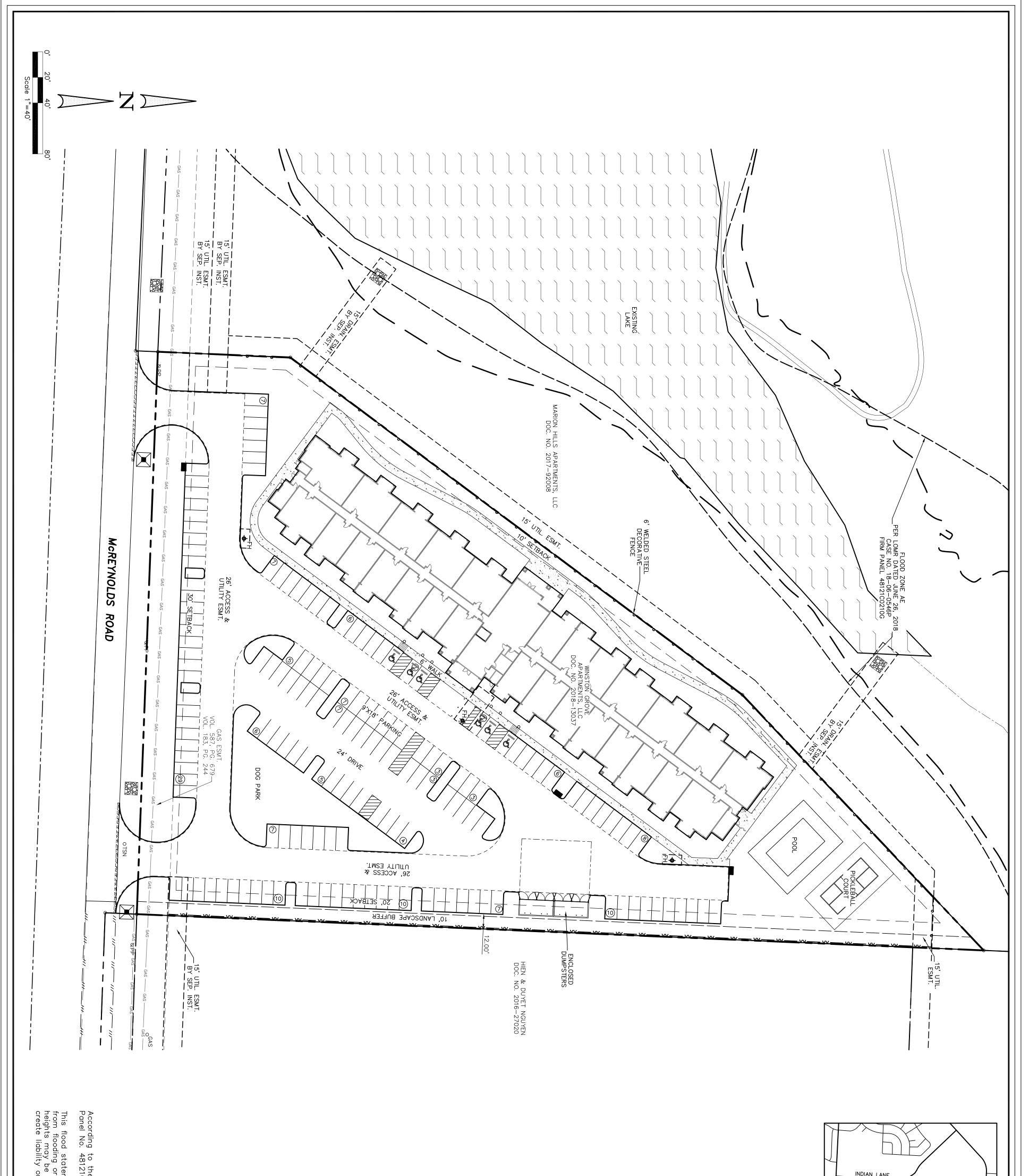
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TO CONSTRUCTION

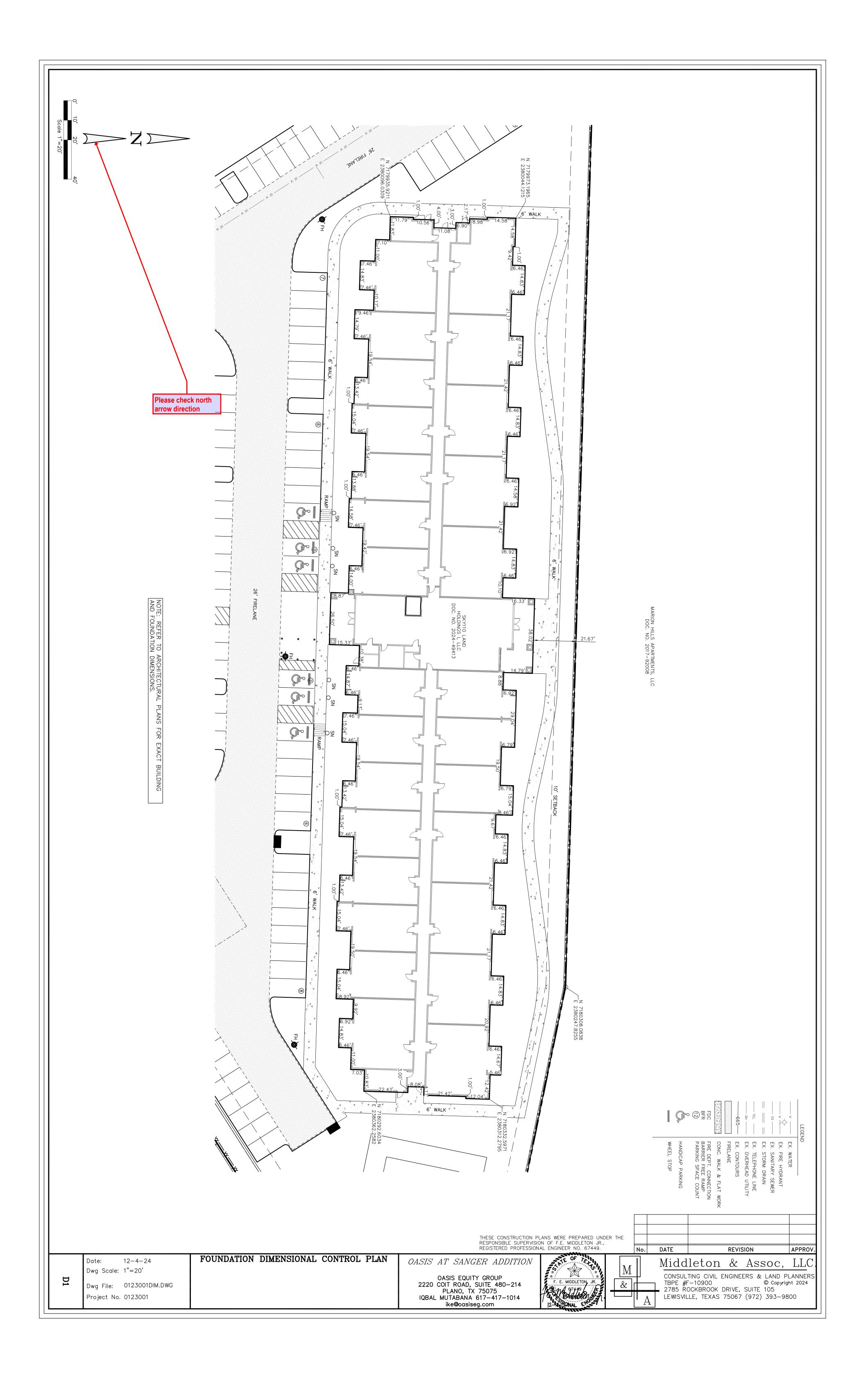
NOTE: ALL UTILITY DITCH BACKFILL WILL BE INSTALLED IN 8" LIFTS AND EACH LIFT WILL BE TESTED MOISTURE CONTENT AT OR ABOVE THE OPTIMUM MOISTURE.	NTRACT DOCUMENTS. EACH PROPERTY. THE LETTER SHALL INCLUDE N/ EAME FOR DOING THE WORK. COPIES OF THE LE OF PERFORMING ANY WORK ON PRIVATE PROPEN MPENSATION WILL BE ALLOWED. INCLUDING THE PERSONAL SAFETY OF THE INCLUDING THE PERSONAL SAFETY OF THE INCLUDING THE PERSONAL SAFETY OF THE
<ul> <li>2. THIRTY DATS PRIOR TO THE EXPIRATION OF THE WARRANTY, THE CONTRACTOR SHALL NOTIFY A SHALL REQUEST A FINAL INSPECTION OF THE IMPROVEMENTS TO IDENTIFY ANY ITEMS REQUIRING THE END OF WARRANTY, THE WARRANTY AND BOND SHALL AUTOMATICALLY BE EXTENDED TO E CITY.</li> <li>3. IF THE CONTRACTOR FAILS TO RE-VIDEO THE SANITARY SEWER OR FAILS TO MAKE SATISFACTO INSPECTION, THE WARRANTY AND MAINTENANCE BOND SHALL AUTOMATICALLY TO EXTENDED TO TO</li> </ul>	
ARRANTY THE CONTRACTOR SHALL MAINTAIN THE REQUIRED PUBLIC IMPROVEMENTS FOR A PERIOD OF MAINTENANCE BOND IN THE AMOUNT OF 100% OF THE COSTS OF THE IMPROVEMENTS.	D COMPACTED TO A MINIMUM OF 95% +2% OF OPTIMUM MAIN.
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A WILL NOTIFY THE CITY ENGINEER IN WRITING WITH THE NAME OF THE ENGINE L ATTEND THE PRE-CONSTRUCTION CONFERENCE FOR THE PROJECT.	20 DUCTILE IRON PIPE SHALL BE CLASS 51. NO 250. JAL.
YALS. TESTING BY CATEGORY. AS-BUILT DRAWINGS. AND	AFETY SYSTEM AT ALL TIMES. EXISTING MAINS. TERS SHALL BE INSTALLED AS DIRECTED BY
THE DEVELOPER WILL BE RESPONSIBLE FOR HIRING THE DESIGN ENGINEER TO PROVIDE CONST ALL SUBMITTALS FOR MATERIALS AND SHOP DRAWINGS ASSOCIATED WITH IMPROVEMENTS TO WITH CITY OF SANGER STANDARDS, THE ENGINEER WILL SUBMIT THE INFORMATION TO THE CI WITH THE CITY OF SANGER REQUIREMENTS. THIS MUST OCCUR BEFORE INSTALLATION OF AN	HESE PLANS. E CITY OF SANGER.
ARANCHISE UTILITIES, ETC.	98) BY MEANS OF TAMPING ONLY WITH A MINIMUM
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IN SHALL REMOVE FROM THE PROJECT AREA ALL SURPLUS MATERIAL. THIS S ON INCLUDING DIRT, TRASH, ETC. SHALL BE PROPERLY DISPOSED OF AT A SI THE LOCATION IS NOT WITHIN THE CITY LIMITS, THE CONTRACTOR SHALL PRO OW AREAS OR ALONG NATURAL DRAINAGE WAY WITHOUT WRITTEN PERMISSION IF THE CONTRACTOR PLACES EXCESS MATERIAL IN THE AREAS WITHOUT WRI AND HE SHALL REMOVE THE MATERIAL AT HIS OWN COST	E STORM SEWER STSTEM DURING CONSTRUCTION.
WATERTIGHT MANHOLE INSERTS SHALL BE PROVIDED WITH ALL NEW MANHOLES, AS REQUIRED . THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND SIDEWALKS ADJACENT TO PRO . THE CONTRACTOR SHALL CLEANUP AND RESTORE THE AREA OF OPERATIONS TO A CONDITION REPLACEMENT OR REHABILITATION OF THE PIPE.	RM DRAIN LINES, MUST BE OF
TRACTOR SHALL BYPASS PUMP SEWAGE AROUND SECTIONS OF PIPE PRIOR TO BEING REI DENTAL TO REPLACEMENT OF SEWER. MANHOLES SHALL BE CONSTRUCTED SUCH THAT THE MANHOLE COVER IS AT FINISHED :	SET. NO WATER JETTING IS GRADE AFTER THE INSTALLA
ITEM, BUT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT PRICE. WHICH ARE OPEN CUT, SHALL HAVE AT LEAST A TEMPORARY RIDING SURFA VON-PAY ITEM.	DEVIATION FROM THESE F NGER STANDARDS, TEXAS
IALL PROTECT CONCRETE CURB AND GUTTER, DRIVEWAYS, AND SIDEWALKS TH ALL BE AS DESIGNATED. AT LOCATIONS WHERE THE CURB AND GUTTER ARE ISHMENT OF EXISTING STREET AND GUTTER GRADES. ESTABLISHMENT OF GRA	SS "C" CONCRETE AND MINIMUM STF
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PROPERTY OWNERS) ALL TREES, SHRUBS, HEDGES, RETAINING WALLS, LANDSCAPING, BUILDIN SHALL BE CONSIDERED INCIDENTAL AND NOT A SEPARATE PAY ITEM. . THE CONTRACTOR SHALL REMOVE ALL FENCES, LOCATED WITHIN EASEMENTS, INTERFERING WI CONSTRUCTION. REMOVED FENCES, WOODEN OR CHAIN LINK, SHALL BE REPLACED WITH A NE OWNERS SHALL BE NOTIFIED PRIOR TO CONSTRUCTION. REMOVAL AND REPLACEMENT OF EXIS	NS OF TAMPING ONLY WITH A MINIMUM MOISTURE
IN SERVICE FOR SEWER SERVICES TO BE REINSTREED. IN NO CASE STREETS R SHALL BE LIABLE FOR ALL DAMAGES TO PROPERTIES, HOMES, AND BASEM OR ABANDONMENT OF EXISTING PIPE. THE CONTRACTOR WILL BE ALLOWED TO DR ALL CLEAN UP ASSOCIATED WITH OPENING CLEAN OUTS.	'STANDARD SPECIFICATIONS FOR PUBLIC WORKS
TO PRE-CONSTRUCTION TELEVISION INSPECTION OF SANITARY SEWER LINES. IALL VERIFY THAT ALL CONNECTIONS TO THE SANITARY SEWER SYSTEM ARE IONS. RESPONSIBLE FOR MAINTAINING WATER AND SEWER CONNECTIONS TO ALL HO	
HALL CONDUCT A PRE-CONSTRUCTION TELEVISION INSPECTION OF ALL EXISTIN S METHODS, TO VERIFY LOCATIONS OF ALL SEWER SERVICE CONNECTIONS PRI HALL ENSURE THAT ALL ACTIVE SERVICES CAN BE RECONNECTED AND/OR RE	S "C") AND FLEXURAL STRENGTH OF 600 PSI AND
CONTRACTOR SHALL MAKE NECESSARY PROVISIONS FOR THE SUPPORT AND PROTECTION OF WATER LINES, TU CABLES, DRAINAGE PIPES, UTILITY SERVICES, AND ALL OTHER UTILITIES AN THE CONTRACTOR IS LIABLE FOR ALL DAMAGES DONE TO SUCH EXISTING FACILITIES AS A RE	
<ol> <li>EXISTING VERTICAL DEFLECTIONS AND PIPE SLOPES SHOWN ON THE PLANS WERE OBTAINED F SLOPES WERE ADJUSTED TO MATCH SURVEYED MANHOLE FLOW LINES. RIM ELEVATIONS, FLOW DETERMINED FROM FIELD SURVEY.</li> </ol>	E THAT CAN BE EASILY MOWED WITH A SMALL
ADDITIONAL COMPENSATION WILL BE ALLOWED.	SHALL MEET THE REQ
CTOR'S PERSONNEL SHALL HAVE IDENTIFYING CLOTHING OR HATS AT ALL TIMES. THE CATION OF ALL SANITARY SEWER, WATER, STORM SEWER, TELEPHONE, GAS, ELECTRIC, HICH MAY BE SHOWN ON THESE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL	THE FLOW LINES OF ALL DRAINAGE EXAS COUNCIL OF GOVERNMENTS C
)r shall video all potentially impacted private property areas prio DF property address and main/lateral name. This pre-construction	TO EXISTING STREETS, ALLEYS, DRAINAG
ONCE THE PIPE HAS BEEN INSTALLED OR REHABILITATED, THE CONTRACTOR SHALL IMMEDIATELY COMPLETED TO THE OWNER'S SATISFACTION WITHIN TEN (10) WORKING DAYS. FAILURE TO MAINT FURTHER PIPE INSTALLATION ACTIVITIES.	DISTRIBUTED SO AS TO PROVIDE AT LEAST SIX (6) PROVIDED THROUGHOUT THE DEVELOPMENT PRIOR TO

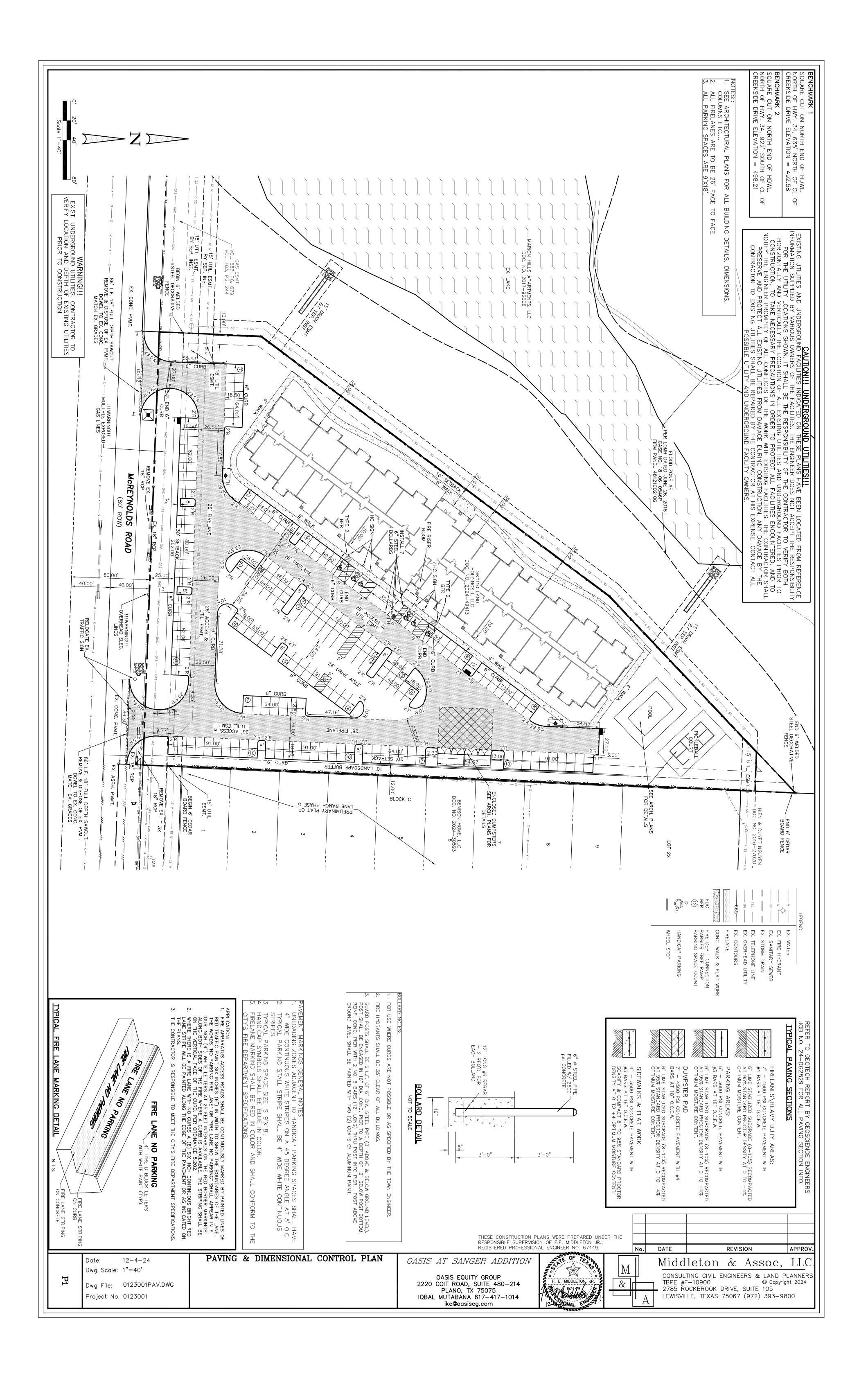
URE. AND EACH MLL BE TESTED б 95%

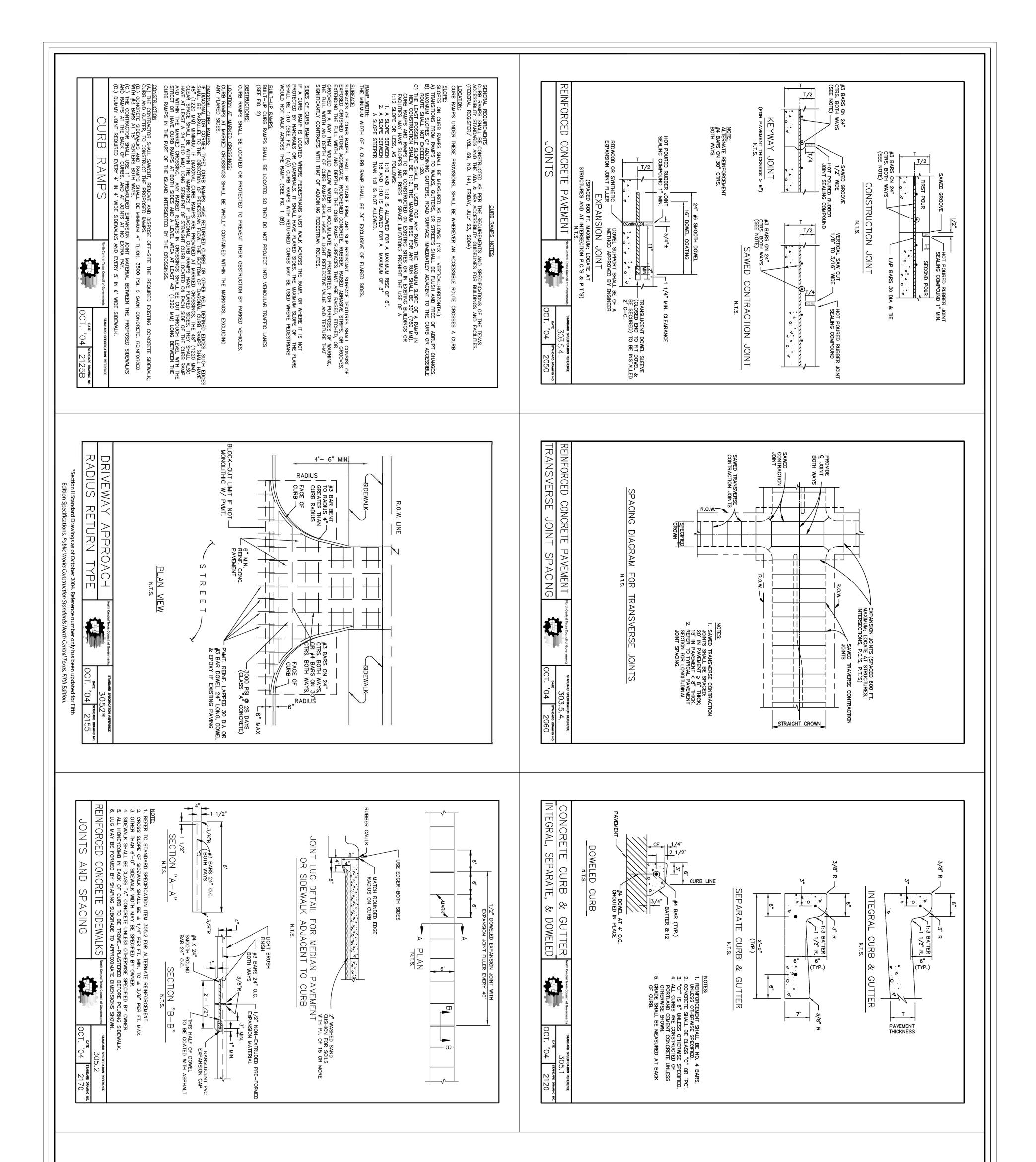
NOTE1	
Date: Dwg Scale: Dwg File: O Project No.	8" LIFTS AND EACH LIFT WILL BE TESTED TO 95% MAXIMUM DRY DENSITY WITH A OISTURE.
123001NOTE.DWG	RANTY, THE CONTRACTOR SHALL NOTIFY THE CITY OF THE APPROACHING END OF THE TWO-YEAR WARRANTY AND EMENTS TO IDENTIFY ANY ITEMS REQUIRING REPAIR. IN THE EVENT THE CONTRACTOR FAILS TO NOTIFY THE CITY OF SHALL AUTOMATICALLY BE EXTENDED TO END THIRTY DAYS AFTER NOTICE OF END-OF-WARRANTY IS FILED WITH THE RY SEWER OR FAILS TO MAKE SATISFACTORY REPAIRS INDICATED NECESSARY ON THE SEWER RE-VIDEO OR FINAL SHALL AUTOMATICALLY TO EXTENDED TO 30 DAYS AFTER SATISFACTORY REPAIRS ARE MADE.
GENER	<u> </u>
AL CONSTRUCTION	IE DESIGN ENGINEER TO PROVIDE CONSTRUCTION MATERIALS ENGINEERING (CME) SERVICES TO REVIEW AND APPROVE S ASSOCIATED WITH IMPROVEMENTS TO BE MAINTAINED BY THE CITY OF SANGER. UPON REVIEW FOR CONFORMANCE I SUBMIT THE INFORMATION TO THE CITY OF SANGER CITY ENGINEER WITH A LETTER, CONFIRMING CONFORMANCE FOR ENSURING THAT THE PROPER NUMBER AND LOCATION OF TESTS ARE MADE AND WILL REVIEW SUFICATIONS. SANITARY SEWER TAPES SHALL BE REVIEWED AND APPROVED PRIOR TO THE PLACEMENT OF PAVEMENT. CITY OF SANGER FOR THEIR REVIEW, ALSO, PRIOR TO PAVING OF THE PROJECT. UPON COMPLETION OF THE SUMMARIZING THE TESTING PERFORMED AND THAT RESULTS MEET THE REQUIREMENTS OF THE CITY OF SANGER. THE AND SHALL CONTAIN AT A MINIMUM THE CONFORMANCE LETTER FROM THE REQUIREMENTS OF THE CITY OF SANGER. THE AND SHALL CONTAIN AT A MINIMUM THE CONFORMANCE LETTER FROM THE CME, COPIES OF ALL WARRANTIES AND Y CATEGORY, AS-BUILT DRAWINGS, AND SANITARY SEWER TAPES ON CD. WRITING WITH THE NAME OF THE ENGINEER THAT WILL PROVIDE THE CME SERVICES. NFERENCE FOR THE PROJECT.
NOTES	E LEAK TESTED BEFORE THE PROJECT IS ACCEPTED. DEFLECTION TESTING OF PVC SEWER LINES IS REQUIRED. IS SHALL BE VIDEO TAPED AFTER INSTALLATION OF THE SERVICE CONNECTIONS, PRIOR TO PAVING OF THE PROJECT. VED OFF PRIOR TO MAKING THE VIDEO. THE SIZE AND SLOPE OF THE PIPE SHALL BE SHOWN ON THE VIDEO. ALL DEVELOPER THREE MONTHS PRIOR TO THE EXPIRATION OF THE TWO-YEAR MAINTENANCE AGREEMENT. THE PURPOSE ROBLEMS THAT MAY HAVE OCCURRED SINCE ACCEPTANCE SUCH AS SETTLEMENT, CUTTING OF THE LINES BY
TAR R OASIS EQUITY 2220 COIT ROAD, SU PLANO, TX 7: IQBAL MUTABANA 61 ike@oasiseg.	E GRADE, OR AS NOTED ON THE PLANS. CONCRETE CONTRIBUTED FROJECT. FREE OF MUD AND DEBRIS FROM THE CONSTRUCTION. OOD AS OR BETTER THAN THAT WHICH EXISTED PRIOR INCIDENTAL AND NOT A SEPARATE PAY ITEM. SURPL SEPTABLE TO THE CITY'S FLOOD PLAIN ADMINISTRATOR LETTER STATING SO. NO EXCESS EXCAVATED MATERIAL THE AFFECTED PROPERTY OWNER AND THE CITY'S FLO ERMISSION, HE WILL BE RESPONSIBLE FOR ALL DAMAGE
ESPONSIBLE SUPERVISION EGISTERED PROFESSION R ADDITTION GROUP	AND REPL NE ALL RES NA AND IS I URFACE WIL
PLANS WERE PREPARED ON OF F.E. MIDDLETON VAL ENGINEER NO. 6744 F. E. MIDDLETON JR. 67449 12-4 ONAL	REMOVE AND REPLACE (WITH PRIOR APPROVAL OF CITY PARKS AND COMMUNITY SERVICES AND/OR AFFECTED TAINING WALLS, LANDSCAPING, BUILDINGS, WALKS, ETC., IN OR NEAR PROPOSED CONSTRUCTION AREA. THIS WORK RATE PAY ITEM. TED WITHIN EASEMENTS, INTERFERING WITH CONSTRUCTION OPERATION AND PROVIDE TEMPORARY FENCING DURING LINK, SHALL BE REPLACED WITH A NEW FENCE OR UNDAMAGED ORIGINAL FENCING. ALL AFFECTED PROPERTY . REMOVAL AND REPLACEMENT OF EXISTING AND TEMPORARY FENCES SHALL BE CONSIDERED SUBSIDIARY TO THE SES FOR VARIOUS ITEMS LISTED IN THE PROPOSAL. TTER, PAVEMENT, DRIVEWAYS, AND SIDEWALKS AT AREAS WHERE PAVEMENT OR CONCRETE IS TO BE REMOVED.
JR., .9. No	TO THE SANITARY SEWER SYSTEM ARE FOR SANITARY SEWER ONLY. CONTRACTOR SHALL NOTIFY CITY OF ALL KNOWN R AND SEWER CONNECTIONS TO ALL HOMES AND BUSINESSES IN WORKING ORDER AT ALL TIMES, EXCEPT FOR BRIEF BE REINSTALLED. IN NO CASE SHALL SERVICES BE ALLOWED TO REMAIN OUT OF SERVICE OVERNIGHT. IS TO PROPERTIES, HOMES, AND BASEMENTS FROM BACKUP, WHICH MAY RESULT DURING THE INSTALLATION OF THE THE CONTRACTOR WILL BE ALLOWED TO OPEN CLEAN OUTS WHERE AVAILABLE. THE CONTRACTOR WILL BE PENING CLEAN OUTS.
Middleto Consulting CI TBPE #F-10900 2785 ROCKBRC	ND BELOW GROUND. THE IE CABLES, SANITARY SEWER GROUND DURING CONSTRUCTION BE ABANDONED OR REHABIL ONTRACTOR SHALL NOTIFY TH RATE PAY ITEM, THIS WORK
REVISION On & Asso VIL ENGINEERS & LAN O © C OOK DRIVE, SUITE 105 XAS 75067 (972) 393	CLOTHING OR HATS AT ALL TIMES. THE CONTRACTOR SHALL ALSO HAVE IDENTIFICATION ON ALL VEHICLES. RM SEWER, TELEPHONE, GAS, ELECTRIC, CABLE TELEVISION UTILITIES, DRIVEWAYS, RETAINING WALLS, STRUCTURES, PPROXIMATE. THE CONTRACTOR SHALL VERIFY THE EXACT SIZE, LOCATION, ELEVATION, AND CONFIGURATION OF ALL CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES AND PROPERTY OWNERS TO MARK AND STRUCTION. SUCH VERIFICATION SHALL BE CONSIDERED AS SUBSIDIARY TO THE COST OF PROJECT AND NO HOWN ON THE PLANS WERE OBTAINED FROM RECORD DRAWINGS AND HAVE NOT BEEN FIELD VERIFIED. SOME PIPE DLE FLOW LINES. RIM ELEVATIONS, FLOW LINES AND HORIZONTAL LOCATIONS OF EXISTING MANHOLES WERE
ND PLANNERS Copyright 2024	TED, THE CONTRACTOR SHALL IMMEDIATELY COMMENCE SURFACE RESTORATION. SURFACE RESTORATION MUST BE IN (10) WORKING DAYS. FAILURE TO MAINTAIN SITE RESTORATION, AS NOTED ABOVE, MAY RESULT IN DEFERMENT OF ACTED PRIVATE PROPERTY AREAS PRIOR TO WORK. VIDEOS SHALL INCLUDE DATE NOTATION AND AUDIO TERAL NAME. THIS PRE-CONSTRUCTION VIDEO TAPING OF IMPACTED PROPERTIES SHALL BE CONSIDERED SUBSIDIARY



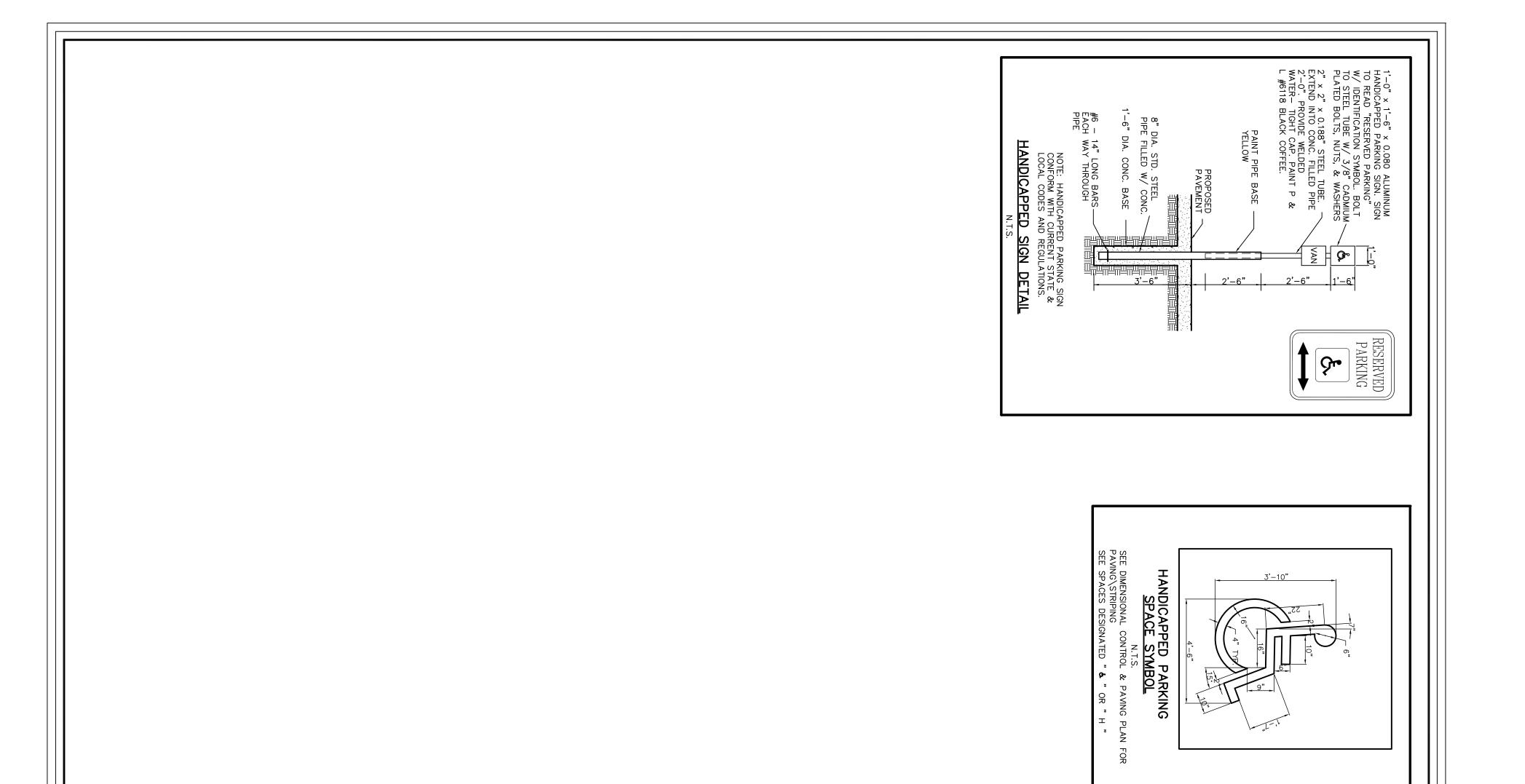
Date:         12-4-24           Dwg Scale:         1"=40'           Dwg File:         0123001SITE.DWG           Project No.         0123001	SITE PLAN	OASIS AT SANGER ADDITION OASIS EQUITY GROUP 2220 COIT ROAD, SUITE 480–214 PLANO, TX 75075 IQBAL MUTABANA 617–417–1014 ike@oasiseg.com	M & M M M M M Consulting civil engineers & land planners <sup>CONSULTING CIVIL ENGINEERS &amp; LAND PLANNERS © Copyright 2024 2785 ROCKBROOK DRIVE, SUITE 105 LEWISVILLE, TEXAS 75067 (972) 393–9800</sup>
ELOOD NOTE the Federal Emergency Management Agency, Flood Insurance Rate Map Community 21CO210G dated APRIL 18 2011. This property does not lie within Flood Zone A. tement does not imply that the property and/or the structure thereon will be free or flood damage. On rare occasions, greater floods can and will occur and flood pe increased by man-made or natural causes. This flood statement shall not on the part of the Engineer.	BEDROOM <u>3 X 2 SPACES =6</u> TOTAL REQUIRED 133.75 TOTAL PROVIDED	4.135 MULT VACA PD C 125 1.5 SPACES	LEGEND LOCATION MAP LOCATION





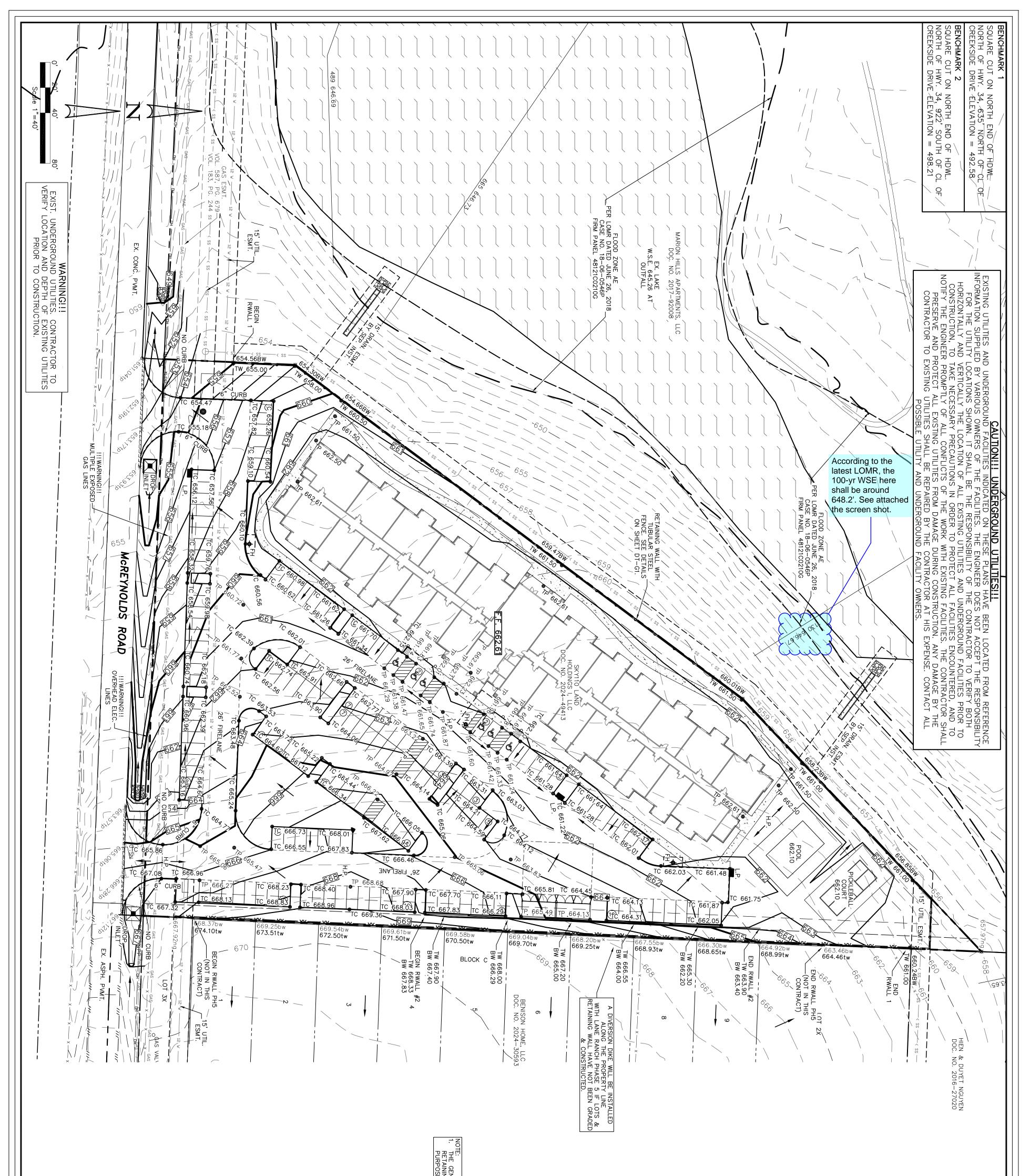


			THESE CONSTRUCTION PLANS WERE PREPARED UNDER THE RESPONSIBLE SUPERVISION OF F.E. MIDDLETON JR., REGISTERED PROFESSIONAL ENGINEER NO. 67449. No. DATE REVISION APPROV.
DT	Date: 12-4-24 Dwg Scale: NTS	PAVING DETAILS	OASIS AT SANGER ADDITION
r–P1	Dwg File: 0123001DT-PAV.DWG Project No. 0123001		OASIS EQUITY GROUP 2220 COIT ROAD, SUITE 480–214 PLANO, TX 75075 IQBAL MUTABANA 617–417–1014 ike@oasiseg.com

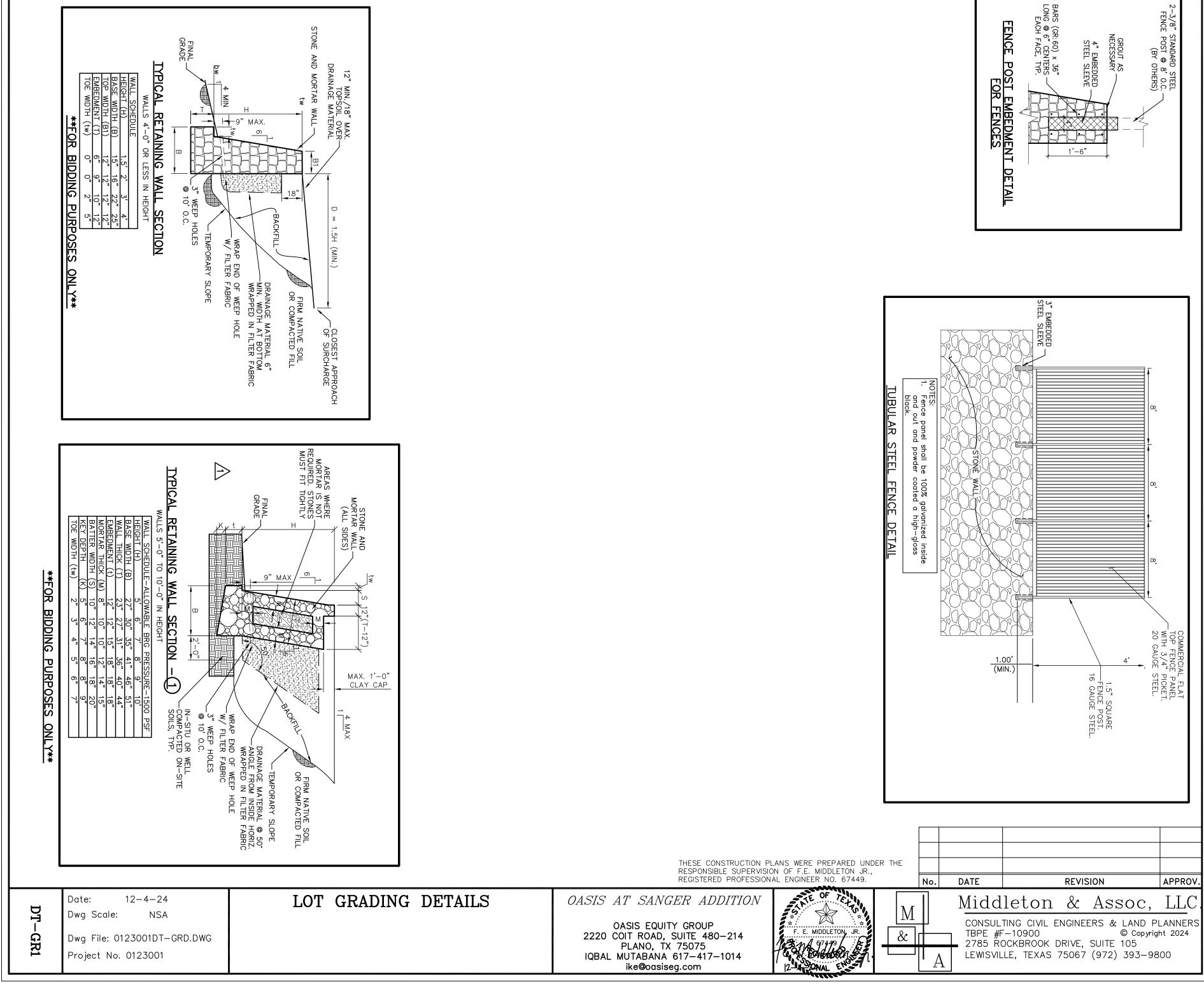


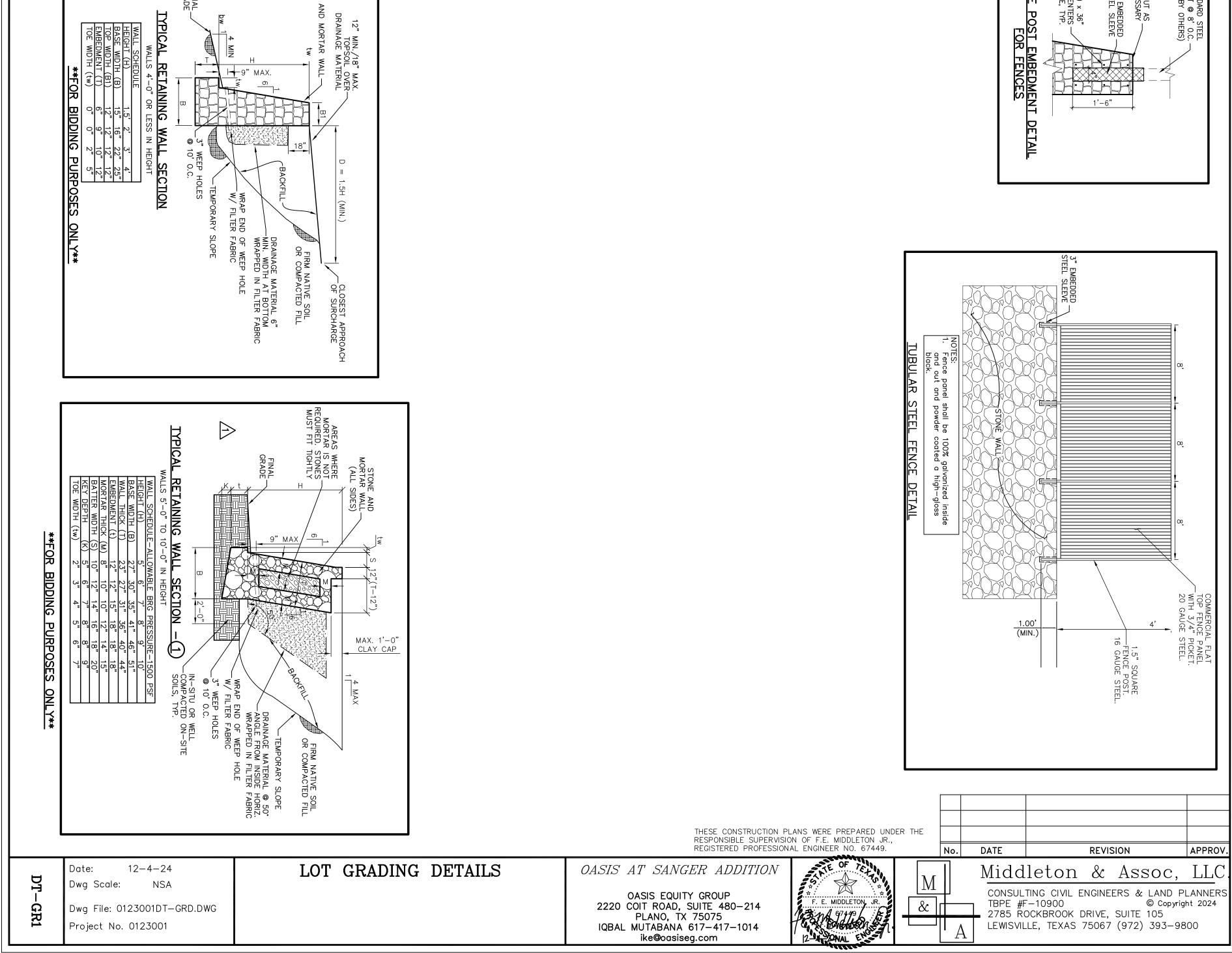
- 1. CURB RAMPS MUST CONTAIN A 4.29 OF THE TEXAS ACCESSIBIL FLARES. FURNISH DARK BROWN ELSEWHERE IN THE PLANS.
   2. DETECTABLE WARNING SURFACE
   3. ALIGN TRUNCATED DOMES IN TH
   4. SHADED AREAS ON THE DETAIL
   5. DETECTABLE WARNING SURFACE
   WIDTH OF THE CURB RAMP OR
   6. DETECTABLE WARNING SURFACE
   10" FROM THE EXTENSION OF T
- ALL SLOPES ARE MAXIMUM ALL RAMP LENGTH OR GRADE OF A
   LANDINGS SHALL BE AS SHOWN
   MANEUVERING SPACE AT THE E WHOLLY OUTSIDE THE PARALLE
   MANIMUM ALLOWABLE CROSS SI
   ADDITIONAL INFORMATION ON C EDITION OF THE TEXAS ACCESS
   PROVIDE A SMOOTH TRANSITION
   FLARED SLOPES SHALL NOT EX

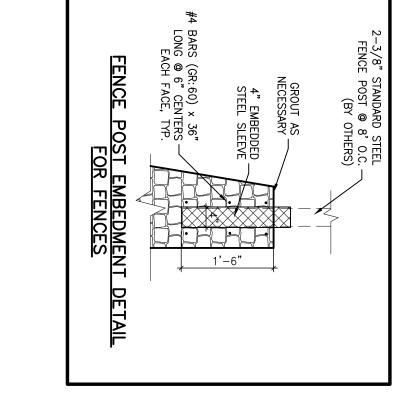
IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND ROUTE ENTERS THE STREET. NEAREST THE CURB LINE IS A MINIMUM OF 6" A SURFACES MAY BE CURVED ALONG THE CORNER	XTURE MAY BE FOUND IN THE CURRENT JNCATED DOMES COMPLYING WITH SECTIO Y WITH ADJOINING SURFACES, INCLUDING INCOLORED CONCRETE, UNLESS SPECIFIED INCOLORED CONCRETE, UNLESS SPECIFIED ULATE. ET.	GENERAL NOTES FOR PEDESTRIAN FACILITIES AXIMUM ALLOWABLE. THE LEAST POSSIBLE SLOPE THAT WILL STILL DRAIN PROPERLY SHOULD BE USED. ADJUST CURB RADE OF APPROACH SIDEWALKS AS DIRECTED. AS SHOWN IN THE PLANS WITH A MAXIMUM SLOPE OF 2% IN ANY DIRECTION. E AT THE BOTTOM OF CURB RAMPS SHALL BE A MINIMUM OF 4'X 4' WHOLLY CONTAINED WITHIN THE CROSSWALK AND E PARALLEL VEHICULAR TRAVEL PATH. E CROSS SLOPE ON SIDEWALK AND CURB RAMP SURFACES IS 2%.	RESPONSIBLE SUPERVISI	LANS WERE PREPARED UNDER TH ON OF F.E. MIDDLETON JR., IAL ENGINEER NO. 67449.	TXDOT TYPE 2 RAMP		RAMP RAMP RAMP RAMP RAMP RAMP RAMP RAMP	APPROV.
	Date: 12-4-24	PAVING	OASIS AT SANGER ADDITION	OF TELL				
DT-P2	Dwg Scale: NTS Dwg File: 0123001DT-PAV.DWG Project No. 0123001		OASIS EQUITY GROUP 2220 COIT ROAD, SUITE 480-214 PLANO, TX 75075 IQBAL MUTABANA 617-417-1014 ike@oasiseg.com	F. E. MIDDLETON, JR. 67449 12-4 ONAL ENGLISHING	M & A	CONSULI TBPE #F 2785 RC	leton & Assoc Ing civil engineers & land –10900 © copy ockbrook drive, suite 105 le, texas 75067 (972) 393–	PLANNERS right 2024

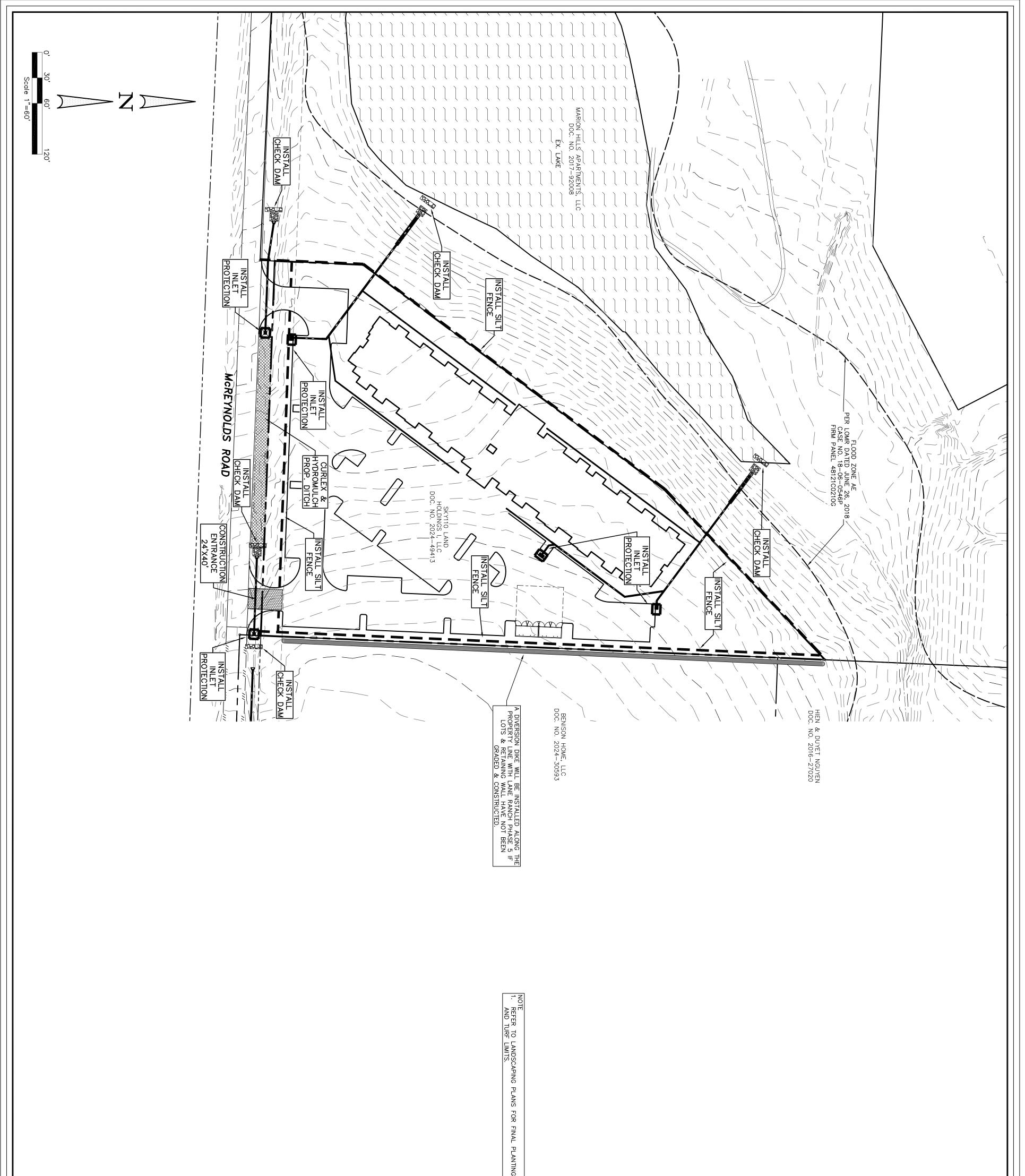


	SENERAL CONTRACTOR SHALL SUBMIT A STRUCTURAL DESIGN FOR ALL NING WALLS. THE WALLS & DETAILS IN THIS DRAWING IS FOR BIDDING OSES ONLY.		Image: Figure 1       Figure 1         Image: Figure 1 </th
		THESE CONSTRUCTION PLANS WERE PREPARED UNDER THE RESPONSIBLE SUPERVISION OF F.E. MIDDLETON JR., REGISTERED PROFESSIONAL ENGINEER NO. 67449.	No.     DATE     REVISION     APPROV.
Date:       12-4-24         Dwg Scale:       1"=40'         Dwg File:       0123001GRD.DWG         Project No.       0123001	GRADING PLAN	OASIS AT SANGER ADDITION OASIS EQUITY GROUP 2220 COIT ROAD, SUITE 480-214 PLANO, TX 75075 IQBAL MUTABANA 617-417-1014 ike@oasiseg.com	Middleton & Assoc, LLC consulting civil engineers & land planners

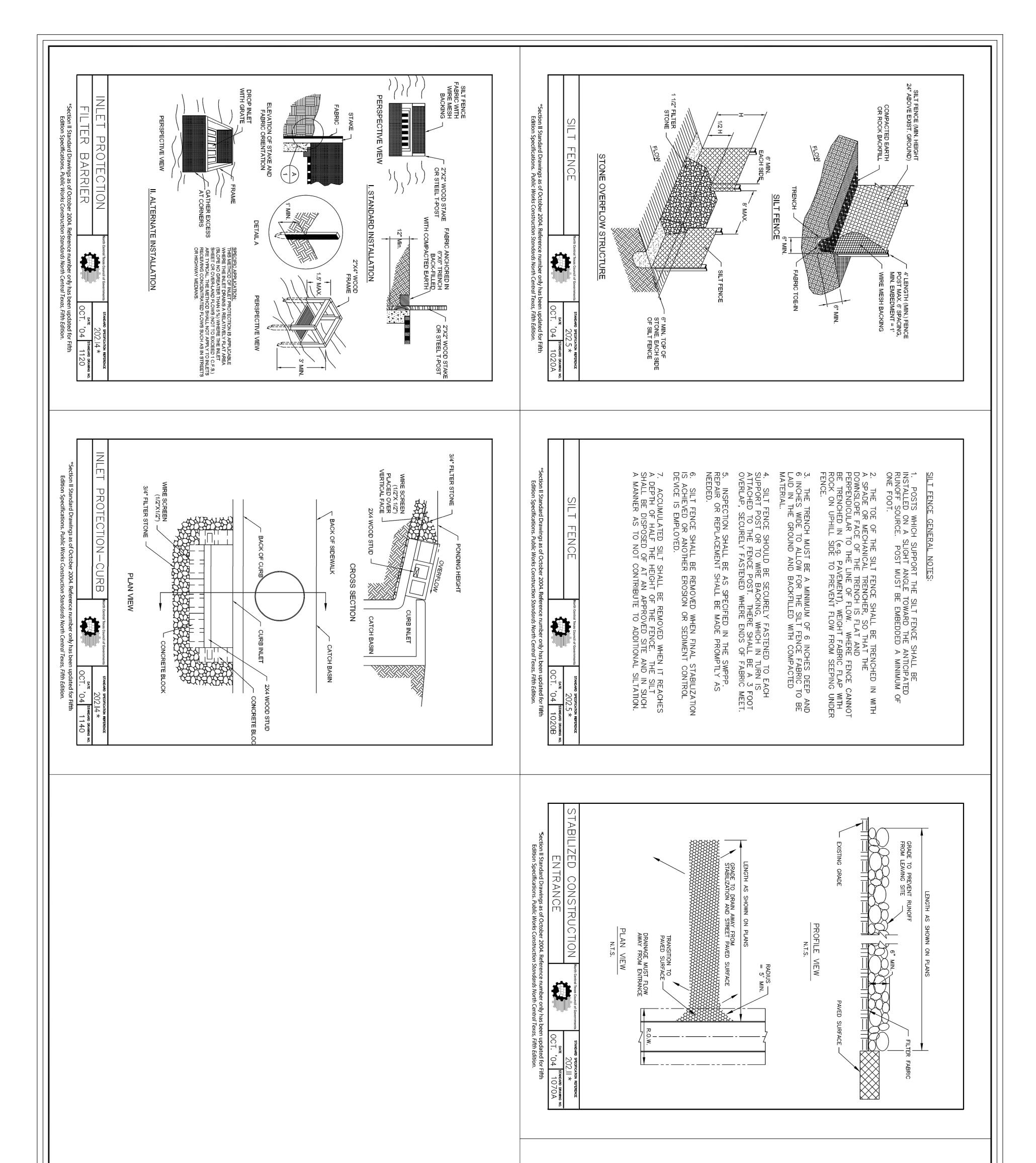




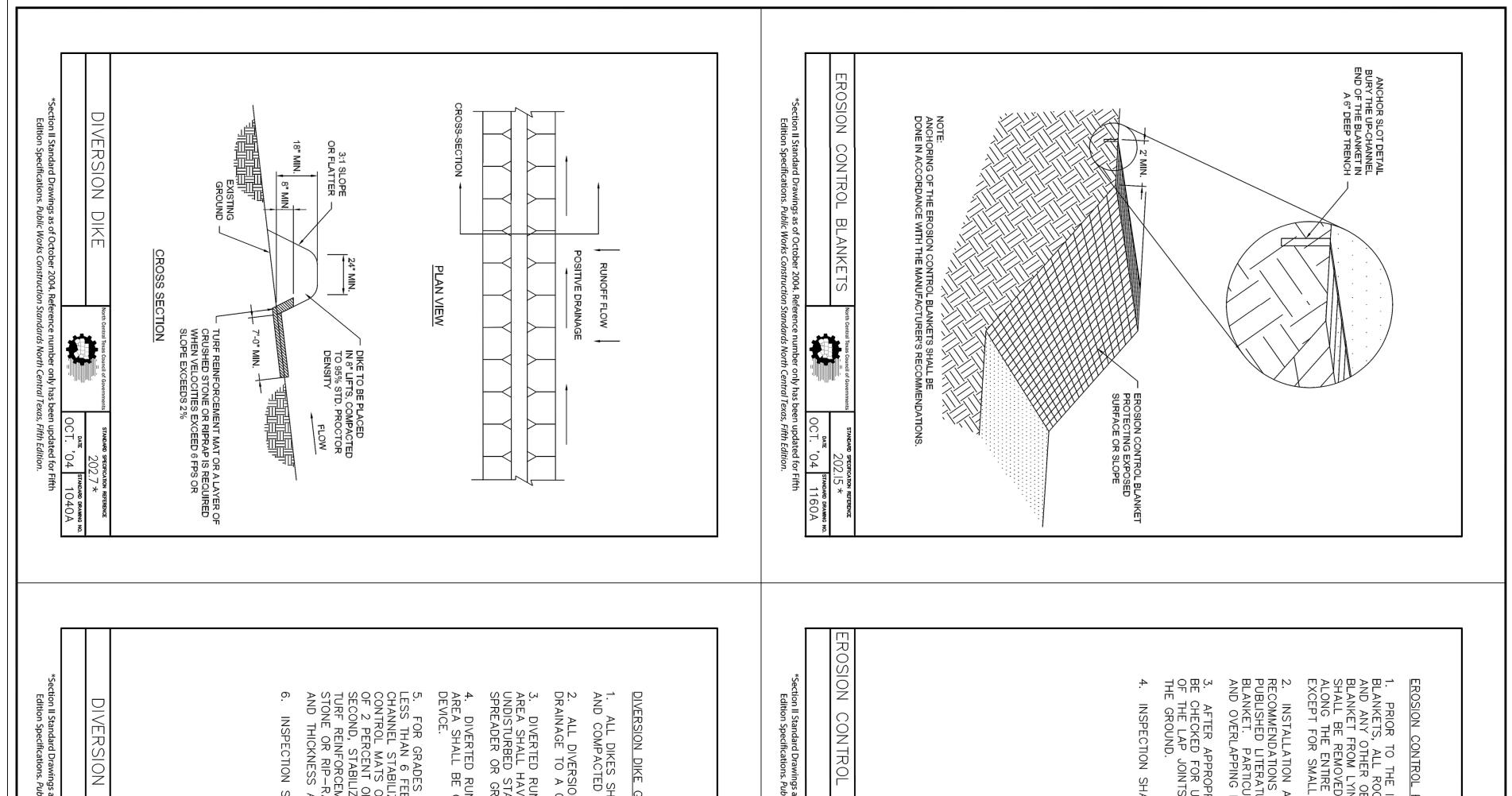




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Image: 12-4-24       EROSION CONTROL PLAN       OASIS AT SANGER ADDITION         Date: 12-4-24       EROSION CONTROL PLAN       OASIS AT SANGER ADDITION         Date: 12-4-24       EROSION CONTROL PLAN       OASIS AT SANGER ADDITION         Date: 12-4-24       EROSION CONTROL PLAN       Middleton & Assoc, LI         Date: 12-4-24       EROSION CONTROL PLAN       OASIS AT SANGER ADDITION         Date: 12-4-24       EROSION CONTROL PLAN       Middleton & Assoc, LI         Date: 12-4-24       EROSION CONTROL PLAN       OASIS EQUITY GROUP         Date: 12-4-24       EROSION CONTROL PLAN       Middleton & Assoc, LI         Date: 12-4-24       EROSION CONTROL PLAN       EROSION CONTROL PLAN         Date: 12-4-24       EROSION CONTROL PLAN       EROSION CONT	Prop. Rock Chec	LEGEND Storm Dra Storm Dra Curb Inle Curb Inle Curb Inle Curlex & Sod in E	<b>VOSION CONTROL CENERAL NOTES:</b> THE CONTRACTOR SHALL COMPLY WITH ALL APPRICABLE FEDERAL, ST ALL TEMPORAL FERSION CONTRACTOR STATUNO OF CRASS WILL BE THE L FEDERAL SERVICE AND ADDRESS OF CONTRACTOR STATUNO OF CRASS OF OTH ALL SERVICE STABLISHERT OF A STAND OF CRASS WILL BE THE L FEDERAL SERVICE AND ADDRESS OF CONTRACTOR STATUNO OF CRASS OF OTH HE ESSION CONTRACTOR STALL MARK INSPECTIONS OF THE COUNT- THE SIGN PROTECTION WILL BE THE LEAST DISTURBANCE CONTRACTOR FEDERAL STABLISHED IN ALL ADDRESS OF A STORM OF ON STORE FEDERAL STABLISHED IN ALL MARK INSPECTIONS OF THE COUNT- THE ESSION CONTRACTOR STALL MARK INSPECTIONS OF THE COUNT- INFE ENDSING CONTRACTOR STALL MARK INSPECTIONS OF THE COUNT- INFE ENDSING CONTRACTOR STALL MARK IN COOL WORKING CONTROL AND SCAPED AREAS) UNIT, SUFFICIENT IS O.70. FERSION CONTROL WEASURES MAY ONLY BE PLACED IN FRONT OF IN AND FACTOR STALL REMAIN UNABLE FOR ANY DAMAGE CAUSED BY THE CONCLUSION OF ANY FRONT OF COEFFICIENT IS O.70. FERSION CONTROL MEASURES WAY ONLY BE PLACED IN FRONT OF IN AT THE CONCLUSION OF ANY STALL MARK IN COOL WORKING CONTROL FROM 4.1 TO FLATTER. ALL OTHER STALL FEMAN IN AND SECONDARY INFORMATION STALL BEAMED TO X CONTROL WEAS IN AND FACTOR STALL BEAMED TO X CONTROL ON ACCESS SEEDED FOR CONTRACTOR STALL BE NOTED FOR ANY DAMAGE CAUSED FOR CONTRACTOR STALL BE AND THE SLOPES FROM 4.1 OR GREATER STERMA AND INLETS FROM ENDING TO USE MARKET INSIDE CONTRACTOR STALL BE THE CONTRACTOR STALL FEMORY TO USE MARKET IN A CENTRALTOR STALL BE DEFOR TO USERVICE AND REPUT THE CONTRACTOR STALL BE RESPONSIBILITY TO USE MARKET RANGE CONTRACTOR WASTER AND STORAGE. SEE INFORM TO USE MARKET RANGE STEEDED FOR CONTRACTOR STALL ENDING TO USE MARKET RANGE CONTRACTOR WASTER AND STORAGE. SEE INFORMED TO USE MARKET RANGE STEEDE FOR CONTRACTOR STALL BE NOT TO USE MARKET RANGE CONTRACTOR WASTER AND STORAGE. SEE INFORMED TO USE MARKET RANGE STEEDED FOR CONTRACTOR STALL BE NOT TO USE MARKET RANGE STEEDED FOR CONTRACTOR STALL BE CONSTRUCTION BAR ALLEYS. STER CONTRACTO
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REGISTERED PROFESSIONAL ENGINEER NO. 67449.       No.       DATE       REVISION       APP         Date:       12–4–24       Date:       12–4–24       OASIS AT SANGER ADDITION       M       Middleton & Assoc, LI         Dwg Scale:       1"=60"       Dwg File:       0123001DAM.DWG       0123001DAM.DWG       M       M       M       Consulting Civil Engineers & LAND PLANN       Consulting Civil Engineers & Consulting Civil Engineers & Consulting Civil Engineers & Consulting Civil Engineers       Consulting Civil Engineers <td< th=""><th>am</th><th>itection s Seed Areas</th><th>THESE CONSTRUCTION PLANS WERE PREPARED UNDER THE RESPONSIBLE SUPERVISION OF F.E. MIDDLETON JR.</th></td<>	am	itection s Seed Areas	THESE CONSTRUCTION PLANS WERE PREPARED UNDER THE RESPONSIBLE SUPERVISION OF F.E. MIDDLETON JR.
Dwg Scale: 1"=60'       M       MITCUTE COIT       M ASSOC, LI         OASIS EQUITY GROUP			
2220 COIT ROAD, SUITE 480-214			
Project No. 0123001 IQBAL MUTABANA 617-417-1014 ike@oasiseg.com I2-4, ONAL A LEWISVILLE, TEXAS 75067 (972) 393-9800	3R1		2220 COIT ROAD, SUITE 480–214 PLANO, TX 75075 IQBAL MUTABANA 617–417–1014 PLANO, TX 75075 IQBAL MUTABANA 617–417–1014

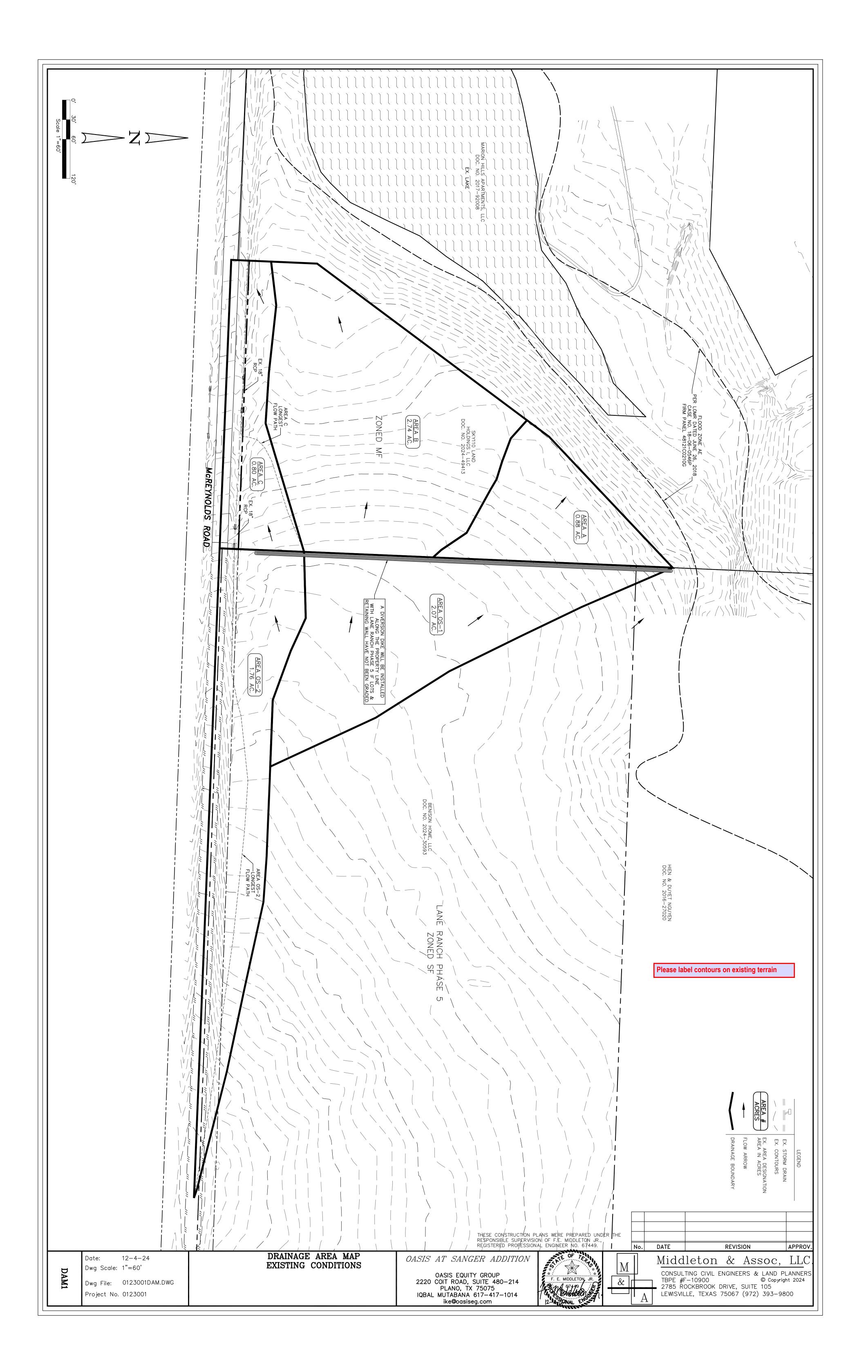


			October 2004. Reference number only has been updated for Fifth orks Construction Standards North Central Texas, Fifth Edition.	STABILZED CONSTRUCTION ENTRANCE GENERAL NOTES:       1.       STORE SHALL BE 3 TO 5 INCH DIAMETER COARSE       AGREGATE.         1.       STONE SHALL BE 3 TO 5 INCH DIAMETER COARSE       AGREGATE.       Image: Stability of the stability of the sympp.       Image: Stabil
	Date: 12-4-24 Dwg Scale: NTS	EROSION CONTROL DETAILS	OASIS AT SANGER ADDITION	Middleton & Assoc, LLC.
ER2	Dwg File: 0123001DT-ER0.DWG		OASIS EQUITY GROUP 2220 COIT ROAD, SUITE 480–214	F. E. MIDDLETON, JR. CONSULTING CIVIL ENGINEERS & LAND PLANNERS TBPE #F-10900 © Copyright 2024 2785 POCK PROOK PRIVE SHITE 105
	Project No. 0123001		PLANO, TX 75075 IQBAL MUTABANA 617-417-1014 ike@oasiseg.com	2785 ŘOCKBROOK DRIVE, SUITE 105 LEWISVILLE, TEXAS 75067 (972) 393–9800



BLANKETS GENERAL NOTES: INSTALLATION OF ANY EROSION CONTROL DOCKS, DIRT CLODS, STUMPS, ROOTS, TRASH DBSTRUCTIONS THAT WOULD PREVENT THE TING IN DIRECT CONTACT WITH THE SOIL D. ANCHOR TRENCHING SHALL BE LOCATED E PERIMETER OF THE INSTALLATION AREA, L AREAS WITH LESS THAN 2% SLOPE. AND ANCHORING SHALL CONFORM TO THE S SHOWN WITHIN THE MANUFACTURER'S TURE FOR THE APPROVED EROSION CONTROL DULAR ATTENTION MUST BE PAID TO JOINTS	WELL GRADED STONE (SEE SIZING CRITERIA) VIEW LOOKING UPSTREAM
MATERIAL. PRIATE INSTALLATION, THE BLANKETS SHOULD UNIFORM CONTACT WITH THE SOIL, SECURITY IS, AND FLUSHNESS OF THE STAPLES WITH HALL BE AS SPECIFIED IN THE SWPPP.	FOUNT 'A' AND SECTION A - A "L' = THE DETANCE SUCH THAT POINTS 'A' AND "L' = THE DETANCE SUCH THAT POINTS 'A' AND 'A' AND 'A' AND 'A' A'
BLANKETS     North Central Texas Council of Governments     STANDARD SPECIFICATION REFERENCE       202.15 *     202.15 *       DATE     0CT. *0.4       International control of the standards North Central Texas, Fifth Edition.	ROCK       CHECK       DAM       North Central Texas Council of Governments       Standard second and network reference         *Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. Public Works Construction Standards North Central Texas, Fifth Edition.       Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition.
GENERAL NOTES: HALL BE PLACED IN 8" LIFTS OR LESS D TO 95% STANDARD PROCTOR DENSITY. ON DIKES SHALL HAVE POSITIVE CONTROLLED OUTLET. UNOFF FROM A PROTECTED OR STABILIZED VE ITS OUTLET FLOW DIRECTED TO AN TABILIZED AREA OR INTO A LEVEL SRADE STABILIZATION STRUCTURE. UNOFF FROM A DISTURBED OR EXPOSED CONVEYED TO A SEDIMENT TRAPPING S LESS THAN 2 PERCENT AND VELOCITIES SLESS THAN 2 PERCENT AND VELOCITIES SLESS THAN 2 PERCENT AND VELOCITIES TABULY AND SECOND, THE MINIMUM REQUIRED IZATION SHALL BE GRADES IN EXCESS OR VELOCITIES EXCEEDING 6 FEET PER TARENT MATS (OR A LAYER OF CRUSHED FAMENT MATS (OR A LAYER OF CRUSHED FAMENT MATS (OR A LAYER OF CRUSHED ALENT MATS (OR A LAYER OF CRUSHED ALENT MATS (OR A LAYER OF CRUSHED FAMENT MATS OR A LAYER OF CRUSHED ALENT MATS OR A LAYER OF CRUSHED SMENT APPROPRIATE SIZE, GRADATION, AS SPECIFIED IN THE SWPPP). SHALL BE AS SPECIFIED IN THE SWPPP.	
DIKE       North Central Texas Council of Governments       STANDARD SREGIFICATION REFERENCE         202.7 *       202.7 *         STANDARD CRAMING INC.       OCT. '04         STANDARD CRAMING INC.       1040B         s as of October 2004. Reference number only has been updated for Fifth         ublic Works Construction Standards North Central Texas, Fifth Edition.	

			*Section II Standard Drawings as of October 2004. Reference number only has been updated for Fifth Edition Specifications. <i>Public Works Construction Standards North Central Texas, Fifth Edition</i> .	al Texas Council of Governments Travas Council of Governments STANDARD SPECIFICATION REFERENCE 202.9 * THESE CONSTRUCTION RESPONSIBLE SUPERV	PLANS WERE PREPARED UNDE ISION OF F.E. MIDDLETON JR., ONAL ENGINEER NO. 67449.	4. WHEN THE SITE HAS ACHIEVED FINAL STABILIZATION OR ANOTHER EROSION OR SEDIMENT CONTROL DEVICE IS EMPLOYED, THE CHECK DAM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.	3. WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD OF THE HEIGHT OF THE CHECK DAM OR ONE FOOT, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF PROPERLY.	ROCK CHECK DAM GENERAL NOTES:         1. STONE SHALL BE WELL GRADED WITH SIZE RANGE FROM 1½ TO 3½ INCHES IN DIAMETER DEPENDING ON EXPECTED FLOWS.         2. THE CHECK DAM SHALL BE INSPECTED AS SPECIFIED IN THE SWPPP AND SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.	APPROV.
ER3	Date: 12-4-24 Dwg Scale: NTS Dwg File: 0123001DT-ERO.DWG	EROSION CONTROL DETAILS	OASIS 2220 COIT F	SANGER ADDITION EQUITY GROUP ROAD, SUITE 480–214 NO, TX 75075	F. E. MIDDLETON JR.		Midd Consul TBPE #F 2785 RC	leton & Assoc ting civil engineers & land F-10900 © copy ockbrook drive, suite 105	PLANNERS yright 2024
	Project No. 0123001		IQBAL MUTA	ABANA 617-417-1014 @oasiseg.com	12-4 DNAL ENGENIS			LE, TEXAS 75067 (972) 393-	9800





Minimum velocities in conduit shall be 2.5 fps. (10.106(d)(6) Pipe Design Standards.         000         011         000         001         000         001         000         001         000         001         000         001         000         001         000         001         000         001         000         001         000         001         000         001         000         001         000	6.17         0.00         6.17         18         0.012         0.0035         661.2         661.3         0.004         61.42         661.47         0.00         0.11         661.65         0.61.65         0.61.7         661.7         0.00         0.11         0.013         0.0035         661.29         661.31         0.014         0.019         0.41.2         0.010         0.11         661.65         0.61.7         661.7         0.01         0.011         0.012         0.0035         661.29         661.31         0.013         0.011         661.65         661.30         0.011         661.65         661.7	SEVER FYDRAULIC CALCUATIONS           Inal         O         Ppe         Ppe         Ppe         Friden stape         DS         VI         VI         VI/2G         V/1/2G         V/1/2G         V/1/2G         Mont         Ender         Friden         Friden         Friden         Friden         State         Compose         DS         VI         VI         VI/2G         V/1/2G         V/1/2G         V/1/2G         Mont         Ender         Friden         Friden         Friden         Friden         Friden         State         Compose         DS         VI         VI         VI/2G         V/1/2G         V/1/2G         Mont         Mont         Friden         Friden	15 minute time of or year and 100 year in respectively         THESE CONSTRUCTION PL         RESPONSIBLE SUPERVISION         OASIS AT SANGER ADDITION	BRAINAGE AREA CACCULATIONS     BEVELOPED CONDITIONS     DOSIS AT SANCER ACAC CULATIONS     DOSIS AT SANCER ADDITION     DOSIS AT SANCER ADDITION     DOSIS AT SANCER ADDITION     DOSIS AT SANCER ADDITION     T     T     D
CALC1	<b>Q</b> Dwg Scale: NTS	DRAINAGE CALCULATIONS	OASIS AT SANGER ADDITION OASIS EQUITY GROUP 2220 COIT ROAD, SUITE 480–214 PLANO, TX 75075 IQBAL MUTABANA 617–417–1014 ike@oasiseg.com	Middleton & Assoc, LLC

				] [	0	0				Dra A									T		Τ				
No.	<u>b</u> 0+				OS-2	0S-1	0	B	A	Drainage Area															
					1.76	2.07	0.80	2.74	0.88	Area (ac)					NOTES:	OS-2	0S-1	0	R A		1	Area No.	Drainage		
Loc					0.40	0.30	0.40	0.30	0.30	Runoff Coefficient "C"	UA		DRAI	1)											
Location					16.00	13.00	8.00	8.00	8.00	Time of Concentration (min)	UASIS AI SANGER ADDIIION	EXISTING CONDITIONS	DRAINAGE AREA CALCULATIONS	1) P <sub>2</sub> IS THE 2-Year, 24 HOUR RAINFALL DEPTH				480 1			4	(ft) (ft)	5	Max.	
					6.20	7.40	8.30	8.30	8.30	Intensity 10 Year (in/hr)			CALCULA	24 HOUR RAIN			_	100 Short Grass	_	┤┣	3	(ft)		-	
Area(s)					9.20	10.40	13.00	13.00	13.00	Intensity 100 Year (in/hr)		S	TIONS	VFALL DEPT	1	Grass	Grass	Grass	Grass					٥V	
Area		DRAI												, <u>+</u>	1	0.15	0.15	0.15	0.15		თ	n n	Overland Flow	OVERLAND or SHEET FLOW	
Coefficent		DRAINAGE AF			4.36					Q 10 Year 10 (cfs)			/			4.80	4.80	4.80	4.80		6	π. (in)		SHEET FLOW	
		AREA			6.48	6.46	4.16	10.69	3.43	Q 100 Year (cfs)						0.008	0.016	0.034	0.029		7	(ft/ft)	Average		
Concentration																11.54	8.75	6.63	6.90		~ ~	(min)	!		DRAIN UNC TIN
S adoic	Gutter	Minimum Incomina							C	lease re oefficie	nt to	0.2	4 sind	e site	e		_	110	_	╡┢	9	Length (ft)	-	S	DRAINAGE AREA CALCULATIONS UNDEVELOPED CONDITIONS TIME OF CONCENTRATION
Se										opears f ense gra			vered	with		Unpaved	Unpaved	Unpaved	Unpaved		10	Surface	) 	HALLOW C	REA CAI PED CC
Section																0.030	0.016	0.032	0.029		11	Slope (ft/ft)	2	ONCENTR/	_CULAT DNDITIO TRATIO
Sx Sx	Pavement															2.77	2.04	2.89	2./5		12	(ft/s)	:	SHALLOW CONCENTRATED FLOW	NS NS
																	4.41	0.64	1 90		13	(min)			
or Guner	Cross Slope															190 Shc	L	270 Shc			14	(ft)			
																Short Grass		Short Grass			15	Surface	- -		
for pavement Int			SU													0.027		0.027			16	Roughness Coett. n	Open Channel	0	
Intensity			MP INI													11.25	NO CHANNEL FLOW	11.25	NO CHANNEL FLOW		, 17	Area (ft^2)	Cross-Section	OPEN CHANNEL FLOW	
Runoff			UMP INLET CALCULATIONS													5 15.30	EL FLOW	5 15.30			-	) Perimeter		NEL FLOW	
Flow			CULA													30 0.031	┝	30 0.032			_	teter Slope			
			<b>FIONS</b>													31 7.90	┝	82 8.04			_	t) (ft/s)			
Q	100 Year															0.40	╞	4 0.56			┥	(min)	1		
Section	Capacity	Street														16	13	∞ c	× ∝		22	(min)	TOTAL		
				1																					

ocities in be 2.5 fps. Pipe Design	7.90       11.60       1.05       1.54       0.00       1.54       12       0.012       0.0019       649.73       0.00       1.96       0.00       0.06       1.25       0.00       0.06       649.79       654.26       656.08         7.90       11.60       1.05       1.54       0.00       1.25       0.012       0.0019       649.25       649.35       1.96       0.06       0.45       0.03       0.03       649.39       654.26       654.26         7.90       11.60       1.05       1.54       0.012       0.0019       649.25       649.35       1.96       1.96       0.06       0.45       0.03       649.39       649.96       654.26         7.90       11.60       1.05       1.54       0.00       1.54       12       0.012       0.0019       649.25       649.35       1.96       0.06       0.45       0.03       649.39       649.96       654.26	7.90       11.60       1.22       1.79       0.00       1.79       12       0.012       0.0025       649.06       649.11       0.00       2.27       0.00       0.08       649.19       653.91       657.28         1	7.90       11.60       1.00       1.46       0.012       0.0017       648.82       649.20       0.00       1.25       0.00       0.05       649.25       649.30       657.40         9       1.00       1.46       12       0.012       0.0017       648.82       649.20       0.00       1.25       0.00       0.05       649.25       649.30       657.40         9       1.00       1.46       12       0.012       0.017       648.82       649.20       0.00       1.25       0.00       0.05       649.25       649.30       657.40       1.46 <th>7.90         11.60         4.95         7.27         0.00         7.27         18         0.013         0.0048         660.95         661.38         0.00         4.12         0.00         0.26         1.25         0.00         0.26         661.64         660.00         665.00           7.90         11.60         7.86         11.55         0.00         11.55         18         0.013         0.0121         650.29         651.32         3.57         6.54         0.20         0.66         0.00         650.29         648.57         649.00         654.10           7.90         11.60         7.86         11.55         0.00         11.55         18         0.013         0.0121         650.29         6.54         0.20         0.66         1.00         0.650.29         648.57         649.00         654.10           7.90         11.60         7.86         11.55         0.00         11.55         18         0.013         0.0121         649.75         650.29         6.54         0.66         1.00         0.66         0.00         650.29         648.57         648.57         648.57         648.57         648.57         648.57         648.57         648.57         648.57         648.57</th> <th>0.00         6.17         18         0.012         0.0035         651.42         651.47         0.00         3.49         0.00           0.00         6.17         18         0.012         0.0035         651.29         651.31         3.49         0.19           0.00         6.17         18         0.012         0.0035         651.29         651.31         3.49         0.19           0.01         0.012         0.0035         651.29         651.31         3.49         0.19</th> <th>7.90       11.60       1.22       1.79       0.00       1.79       12       0.012       0.0025       651.29       651.47       0.00       2.27       0.00       0.08       1.25       0.08       651.55       656.65       657.86         7.90       11.60       5.42       7.96       0.00       7.96       18       0.012       0.0057       650.43       651.29       0.31       0.50       0.04       0.27       651.49       655.62       656.65       65</th> <th>7.90         11.60         0.72         1.06         0.00         1.06         0.01         <!--</th--><th>11.60       6.58       9.66       0.00       9.66       18       0.013       0.0085       649.55       649.88       0.00       9.46       1.25       0.00       0.46       650.34       649.79         11.60       6.58       9.66       0.00       9.66       18       0.013       0.0085       649.25       649.29       5.47       0.46       0.45       0.21       0.26       649.55       649.29         11.60       7.63       11.21       0.00       11.21       21       0.013       0.0050       649.25       649.15       5.47       4.66       0.34       0.50       0.23       0.10       649.25       649.29         11.60       7.63       11.21       0.00       11.21       21       0.013       0.0050       648.25       5.47       4.66       0.34       0.50       0.23       0.10       649.25       649.95         11.60       5.0       12.67       0.00       12.67       2.1       0.013       0.0064       647.75       648.44       4.66       5.27       0.34       0.43       0.15       0.05       0.38       648.82       646.00         11.60       5.27       0.34       0.43       0.43       0.45&lt;</th><th><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></th><th></th><th></th></th>	7.90         11.60         4.95         7.27         0.00         7.27         18         0.013         0.0048         660.95         661.38         0.00         4.12         0.00         0.26         1.25         0.00         0.26         661.64         660.00         665.00           7.90         11.60         7.86         11.55         0.00         11.55         18         0.013         0.0121         650.29         651.32         3.57         6.54         0.20         0.66         0.00         650.29         648.57         649.00         654.10           7.90         11.60         7.86         11.55         0.00         11.55         18         0.013         0.0121         650.29         6.54         0.20         0.66         1.00         0.650.29         648.57         649.00         654.10           7.90         11.60         7.86         11.55         0.00         11.55         18         0.013         0.0121         649.75         650.29         6.54         0.66         1.00         0.66         0.00         650.29         648.57         648.57         648.57         648.57         648.57         648.57         648.57         648.57         648.57         648.57	0.00         6.17         18         0.012         0.0035         651.42         651.47         0.00         3.49         0.00           0.00         6.17         18         0.012         0.0035         651.29         651.31         3.49         0.19           0.00         6.17         18         0.012         0.0035         651.29         651.31         3.49         0.19           0.01         0.012         0.0035         651.29         651.31         3.49         0.19	7.90       11.60       1.22       1.79       0.00       1.79       12       0.012       0.0025       651.29       651.47       0.00       2.27       0.00       0.08       1.25       0.08       651.55       656.65       657.86         7.90       11.60       5.42       7.96       0.00       7.96       18       0.012       0.0057       650.43       651.29       0.31       0.50       0.04       0.27       651.49       655.62       656.65       65	7.90         11.60         0.72         1.06         0.00         1.06         0.01 </th <th>11.60       6.58       9.66       0.00       9.66       18       0.013       0.0085       649.55       649.88       0.00       9.46       1.25       0.00       0.46       650.34       649.79         11.60       6.58       9.66       0.00       9.66       18       0.013       0.0085       649.25       649.29       5.47       0.46       0.45       0.21       0.26       649.55       649.29         11.60       7.63       11.21       0.00       11.21       21       0.013       0.0050       649.25       649.15       5.47       4.66       0.34       0.50       0.23       0.10       649.25       649.29         11.60       7.63       11.21       0.00       11.21       21       0.013       0.0050       648.25       5.47       4.66       0.34       0.50       0.23       0.10       649.25       649.95         11.60       5.0       12.67       0.00       12.67       2.1       0.013       0.0064       647.75       648.44       4.66       5.27       0.34       0.43       0.15       0.05       0.38       648.82       646.00         11.60       5.27       0.34       0.43       0.43       0.45&lt;</th> <th><math display="block"> \begin{array}{c ccccccccccccccccccccccccccccccccccc</math></th> <th></th> <th></th>	11.60       6.58       9.66       0.00       9.66       18       0.013       0.0085       649.55       649.88       0.00       9.46       1.25       0.00       0.46       650.34       649.79         11.60       6.58       9.66       0.00       9.66       18       0.013       0.0085       649.25       649.29       5.47       0.46       0.45       0.21       0.26       649.55       649.29         11.60       7.63       11.21       0.00       11.21       21       0.013       0.0050       649.25       649.15       5.47       4.66       0.34       0.50       0.23       0.10       649.25       649.29         11.60       7.63       11.21       0.00       11.21       21       0.013       0.0050       648.25       5.47       4.66       0.34       0.50       0.23       0.10       649.25       649.95         11.60       5.0       12.67       0.00       12.67       2.1       0.013       0.0064       647.75       648.44       4.66       5.27       0.34       0.43       0.15       0.05       0.38       648.82       646.00         11.60       5.27       0.34       0.43       0.43       0.45<	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		
	YES 0.44 YES 0.44	YES 0.43	YES 0.35	666.50         YES         0.72           YES         0.38           654.10         NO           NO         NO		YES 0.48 YES 1.50 YES 1.50	661.48       YES       0.30         YES       0.30         YES       0.85         YES       0.63	YES YES	U/S Partial Partial T/C Flow? Flow Elev. (Y/N) Depth (ft) (ft) (ft)	15 minute time of concentration for both 10 year and 100 year storm events as 6.6 and 9.6 respectively	
	CALC1	Ŭ,	Scale:	2-4-24 NTS 500CALC.DWC 23001		DF	AINAGE	CALCUL	ATIONS	RESPONSIBLE SUPERVISION OF F.E. MIDDLETON JR., REGISTERED PROFESSIONAL ENGINEER NO. 67449.       No.       DATE       REVISION       APPROV         OASIS AT SANGER ADDITION       OASIS EQUITY GROUP       Image: Consulting Civil Engineers & LAND PLANNER         Image: Consultation of the Consultatio the Consultation of the Consultation of the Consultat	

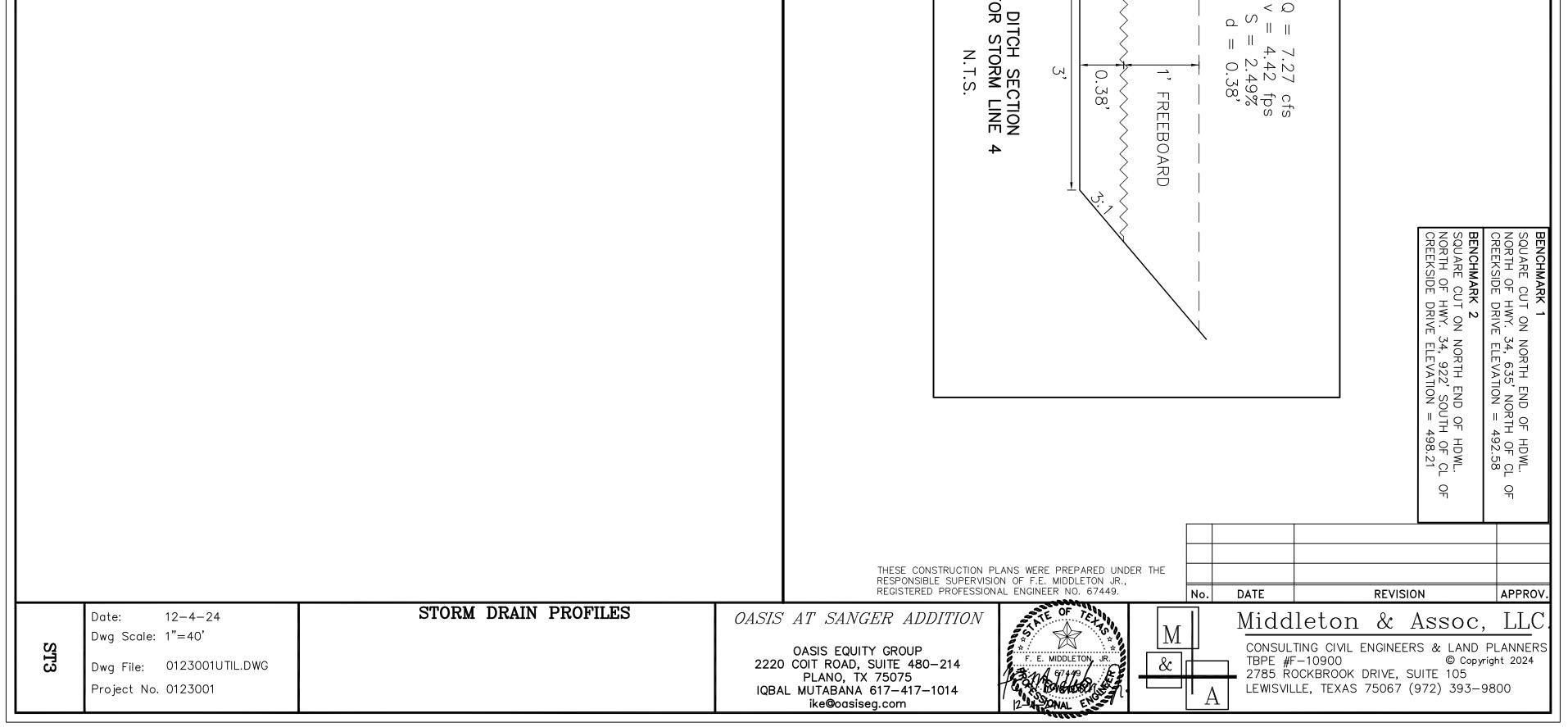
YES 0.44 YES 0.44	YES 0.35 YES 0.43		YES 0.72 YES 0.38	YES 0.67 YES 0.67	YES 0.48 YES 1.50 YES 1.50	YES 0.30 YES 0.30 YES 0.85 YES 0.63	YES 0.71 YES 0.71 YES 1.11 YES 0.86	Partial Partial Flow? Flow (Y/N) Depth (ft)	year and 100 year storm events as 6.6 and 9.6         respectively         THESE CONSTRUCTION PLANS WERE PREPARED UNDER THE         RESPONSIBLE SUPERVISION OF F.E. MIDDLETON JR.,         REGISTERED PROFESSIONAL ENGINEER NO. 67449.         No.       DATE         REVISION
		654.10	666.50	661.22		661.48	656.12	U/S T/C Elev. (ft) 34.00	Please update intensities per Appendix A for 15 minute time of concentration for both 10
656.08 654.26	657.40 657.28	649.00 648.57	662.00	657.72 657.10	657.86 656.65 655.62	656.98 656.52 655.16 653.66	651.62 649.79 649.58 648.92	Elev. To (ft) 33.00	1.15 1.100 Year 1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.79 1.75 1.15 1
654.26 649.96	649.30 653.91	648.57 648.35	660.00	657.10 656.77	656.65 655.62 655.16	656.52 655.16 653.66 646.00	649.79 649.58 648.92 646.00	Invert From (ft) 32	Pe Inlet
649.79 649.39	649.25 649.19	651.74 650.29	661.64	651.66 651.42	651.55 651.29 650.43	650.00 649.99 649.99 649.06	650.34 649.55 649.25 648.82	Design HGL (elev) 31	
0.06 0.03	0.05	0.42	0.26	0.19	0.08 0.27 0.17	0.01 0.00 0.40 0.52	0.46 0.26 0.10 0.38	30 <sup>H</sup>	Inters     Inters       00     11.6       00     0.00       0.00     0.00
0.00 0.03	0.00	0.25	0.00	0.00	0.00 0.04 0.14	0.00 0.00 0.06	0.00 0.21 0.23 0.05	KjV1 <sup>2</sup> /2G 29	DRAINAGE AREA CALCULATIONS DEVELOPED CONDITIONS OASIS AT SANGER ADDITION O 10         Intensity         Intensity           00         10         10 Year         100 Year           00         10         7.90         10           00         10         7.90         1           00         10         7.90         1           00         10         7.90         1           00         10         7.90         1           00         10         7.90         1           00         10         7.90         1           00         10         7.90         1           11et         Inlet         Inlet         10         7.90           15         7.90         1         1         1           11et         Inlet         Capacity         Carryove         100 Yea           11         24         25         26         26         21.18         0.00           13         5         13.24         0.00         0.00         10
1.25 0.45	1.25 1.25	1.25	1.25	1.25 0.45	1.25 0.50 0.45	1.25 0.45 0.15	1.25 0.45 0.15	_ATIONS	RAINAGE ARI DEVELOPEI OASIS AT SA OASIS AT SA Concentration of Inlet to finitet 5 5 8 8 8 8 8 8 1 10 10 10 10 10 10 10 10 10 10 10 10 1
0.06	0.05	0.66	0.26	0.19	0.08 0.31 0.31	0.01 0.01 0.58	0.46 0.34 0.43	S CALCUL V2 <sup>2</sup> /2G (ft) 27	DRAI         DRAI           0.70         0.70           1.55         0.55           0.55         0.55           2.33         3.65           2.75         4.36
0.00	0.00	0.20	0.00	0.00	0.00 0.08 0.31	0.00 0.01 0.40	0.00 0.46 0.34	IEAD LOS: V1 <sup>2</sup> /2G (ft) 26	Area (ac) 0.22 0.22 0.22 0.22 0.22 0.13 0.18 0.18 0.19 0.19 0.19 0.17 0.17 0.17 0.17 0.17 0.17 0.17 0.17
× 1.96	Y 1.86 Y 2.27	6.54	4.12	3.49 3.49	4.50	6.11	5.47 5.47 4.66 5.27	H V2 (PIPE) (fps) 25	Drainage Area Area 0.920 0.
0.00 1.96	0.00	3.57 6.54	0.00	0.00 3.49	0.00 2.27 4.50	0.00 0.60 5.10	0.00 5.47 5.47 4.66	V1 IN 5TREAM) (fps) 24	

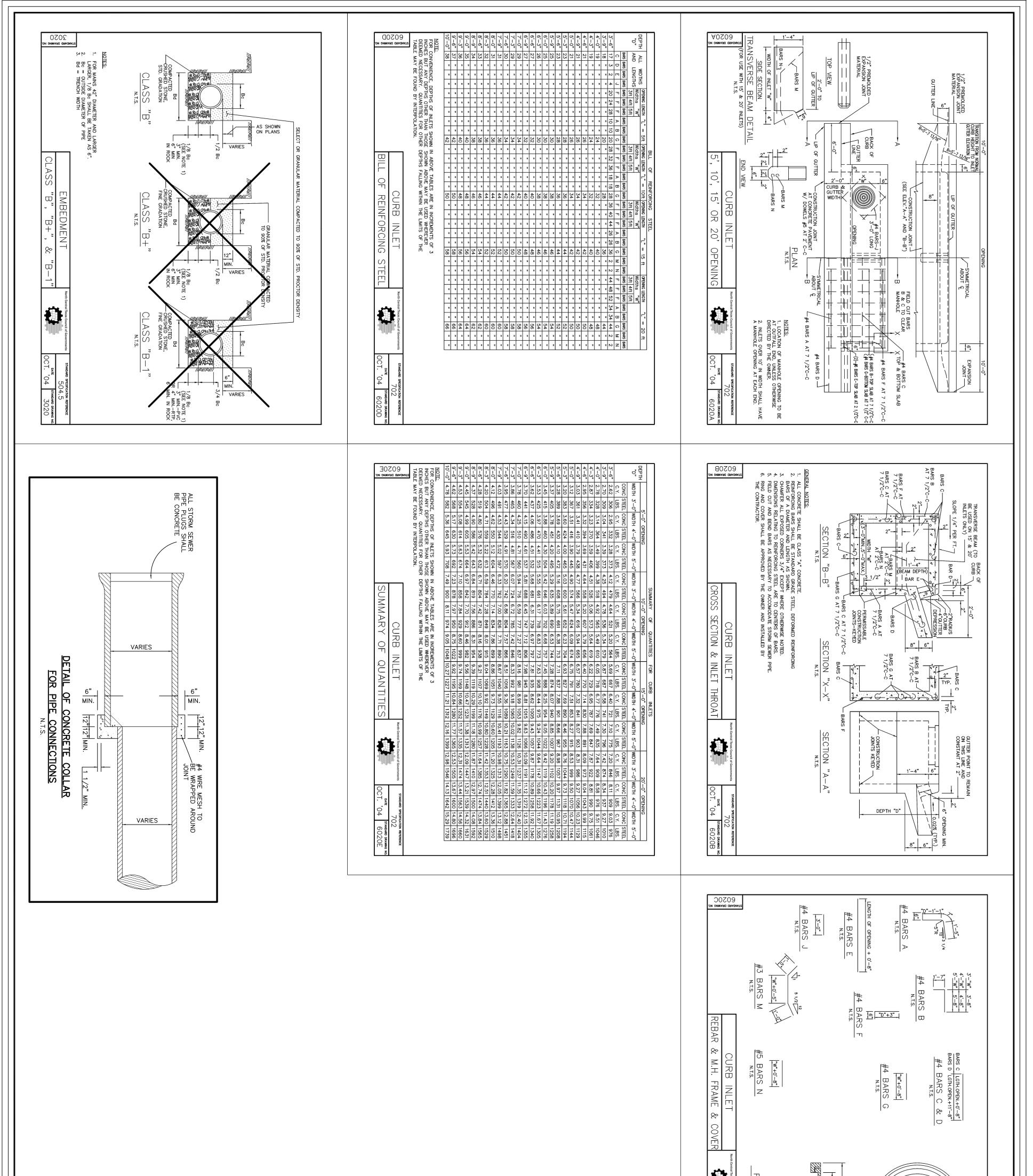


						op. Sop. Sop. Sop. Sop. Sop. Sop. Sop. S	EX. F
						S S S S S S S S S S S S S S S S S S S	
						Water Valve Telephone Pedestal Water Meter Fire Hydrant Light Pole Irrigation Valve Clean Out Air Conditioner Cable Box Signal Box Signal Pole Sign Iron Rod Found Iron Rod Found Iron Rod Set Sanitary Sewer Storm Drain	LEGEND Power Pole Guy Wire Manhole
			RESPONSIBLE SUPERVIS	PLANS WERE PREPARED UNDER TH NON OF F.E. MIDDLETON JR., NAL ENGINEER NO. 67449.	IE No. DATE	REVISION	APPROV.
Ň	Date: 12-4-24 Dwg Scale: 1"=40'	STORM DRAIN PLAN	OASIS AT SANGER ADDITION OASIS EQUITY GROUP	OF TEHTS		lleton & Assoc, _ting civil engineers & land i	PLANNERS
ST1	Dwg File: 0123001UTIL.DWG Project No. 0123001		2220 COIT ROAD, SUITE 480-214 PLANO, TX 75075 IQBAL MUTABANA 617-417-1014 ike@oasiseg.com	F. E. MIDDLETON, JR. 67449 12 A ONAL	2785 Ř	F-10900 © Copyri OCKBROOK DRIVE, SUITE 105 LLE, TEXAS 75067 (972) 393-9	ight 2024 ∂800

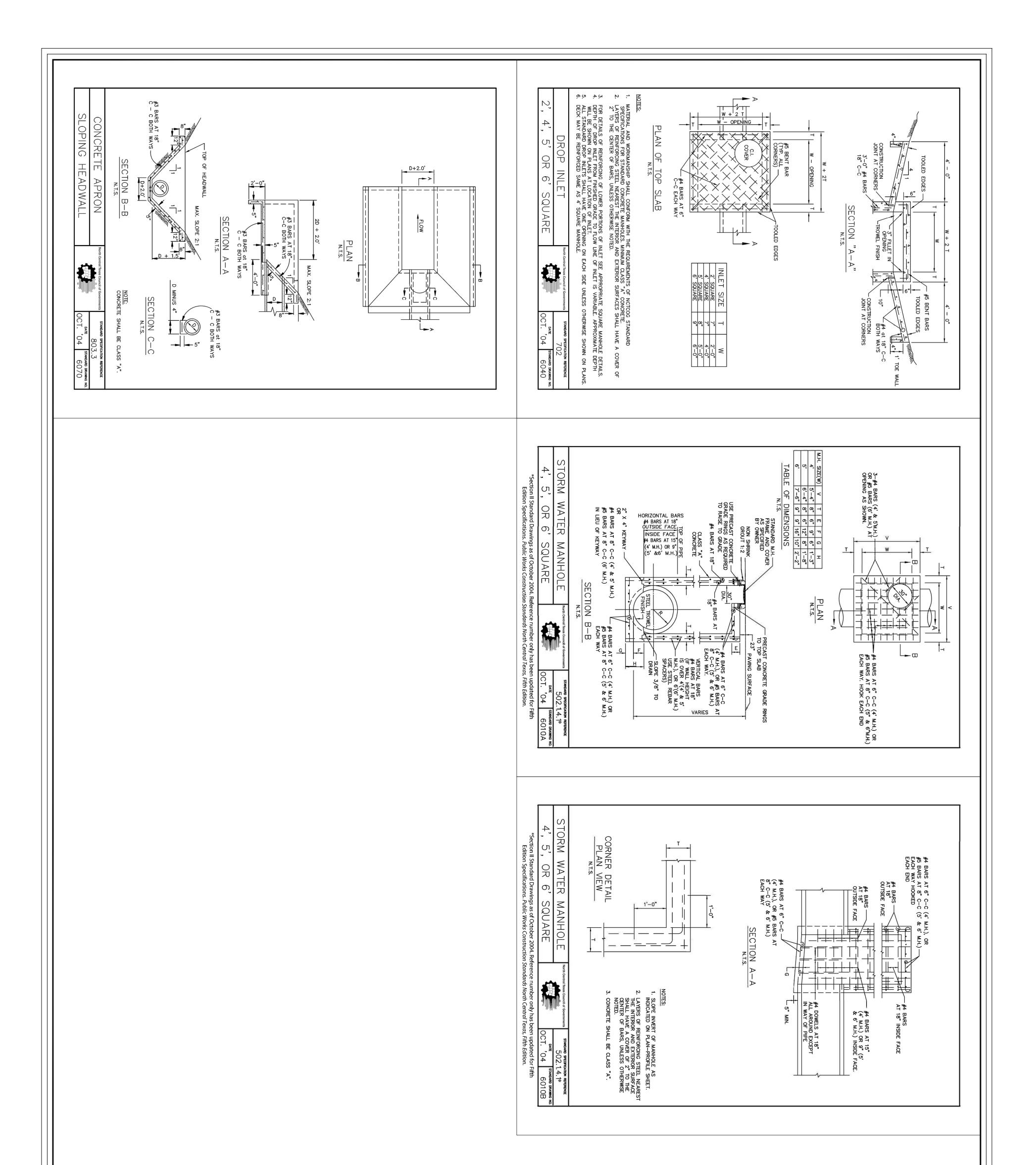
P+U       12       =656.08       1         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0         0       0       0       0	655 660 655 670 REEKSIDE DRIV	OP         OP<
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$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	1       1	640 645 650 655 660 655 660 655 670 655 660 655 670 655 660 655 670 655 660 655 670 75 680 75 680 75 660 655 670 75 660 655 670 75 660 655 670 75 660 655 670 75 660 655 670 75 675 75 675 75 675 75 675 75 675 75 675 75 675 75 675 75 675 75 675 75 675 75 675 75 675 75 75 75 75 75 75 75 75 75 75 75 75 7
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$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	PROP.       PROP.       PROP.       PROP.         PROP.       GRADE       PROP.       GRADE       GRADE         STA.       2+25.00 DRAIN 1       PROP.       HG 657.75       END & PLUG         HG 657.75       FID & PLUG       HG 657.80       HG 657.80       HG 657.80         GS G G G G G G G G G G G G G G G G G G	1       1
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	-	640	645 —	650 —		б55 —		660 	665 	•	670 —	675 —
	+00											
		FL=648	.00 RIP-RAP	0.88								
	0+00	FL 18"=	=648.35 					HG 649.75			C. HWDL.	
				18" RCP		$\begin{array}{c} Q_{100} = 11.55 \text{ c.f.}; \\ V = 6.54 \text{ f.p.s.} \\ S_h = 1.21\% \\ Q_C = 7.43 \text{ c.f.s.} \end{array}$						
	1+00			0.50%								
		FL 18"=						HG 651.32 HG 653.78	S C	TA. 1+30.00 ONST. 1-2')	) ST LINE 4 (2' DROP IN	
	2+	び FL=655	14	WARP MIDDLE OF TO 653.50 IN DITCH				EX. GRADE				
	00	JINE 4 F						DE 0 2 PIPE				
It appears that this section		이 FL=656 [] [] [] [] [] [] [] [] [] [] [] [] [] [	.39			- 100 YR НС LINE	2.49%					
of ditch doesn't meet the required 1' freeboard. Please verify/revise.	3+00	FL=657	.63			PROP. GRADE		, I ) II - ''				
		FL=658	.88				ROCK RIP-RAP					
	4+0	FL 18"=	-660.00		G 660.38 G 660.73					A. 3+95.00 NST. 1-CON FLARED WIN	ST LINE 4_ C. HDWL GS _	
	00			H( STALL 90.00 18"		d = 0.72	$Q_{100} = 7.27$ c.f.s. V = 4.12 f.p.s. Sh = 0.48% Qc = 15.65 c.f.s.	tan e	P P			
		FL 18"=	=662.00		G 662.72 G 662.98		7 c.f.s.			PSTA. 4+	85.00 ST L 1-2'X2' DR(	INE 4 DP INLET
	5+00	FL18"=	-667.00				STA. 5+	26.42 ST		1.39%		
	5+50	640	645	650		о 5 5		0 0 0 0	6 6 5			675
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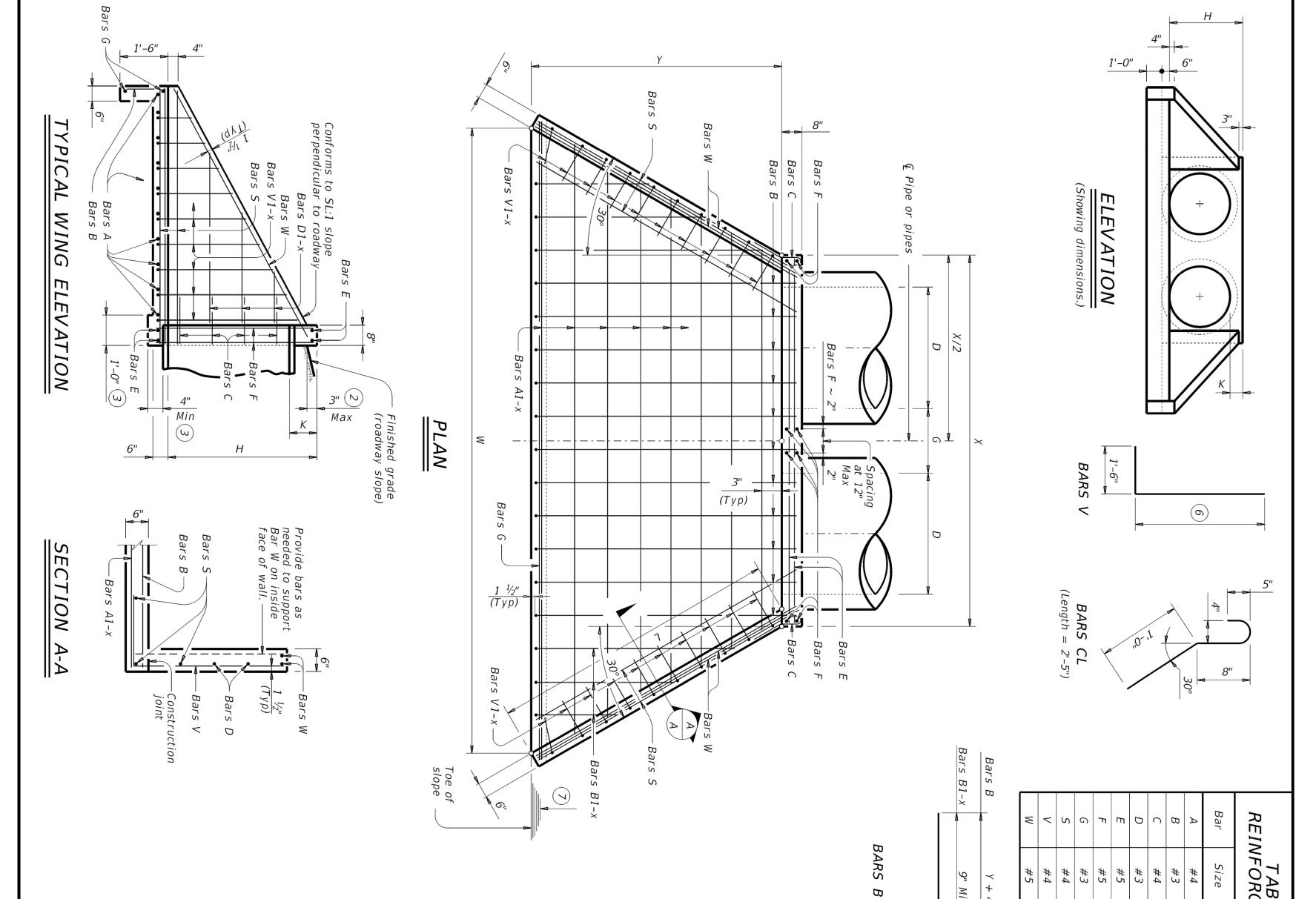
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			THESE CONSTRUCTION PLANS WERE PREPARED UNDER THE RESPONSIBLE SUPERVISION OF F.E. MIDDLETON JR., REGISTERED PROFESSIONAL ENGINEER NO. 67449. No. DATE REVISION APPRO
DT-ST1	Date: 12-4-24 Dwg Scale: NTS Dwg File: 0123001DT-STM.DWG Project No. 0123001	STORM DRAIN DETAILS	OASIS AT SANGER ADDITION OASIS EQUITY GROUP 2220 COIT ROAD, SUITE 480–214 PLANO, TX 75075 IQBAL MUTABANA 617–417–1014 ike@oasiseg.com



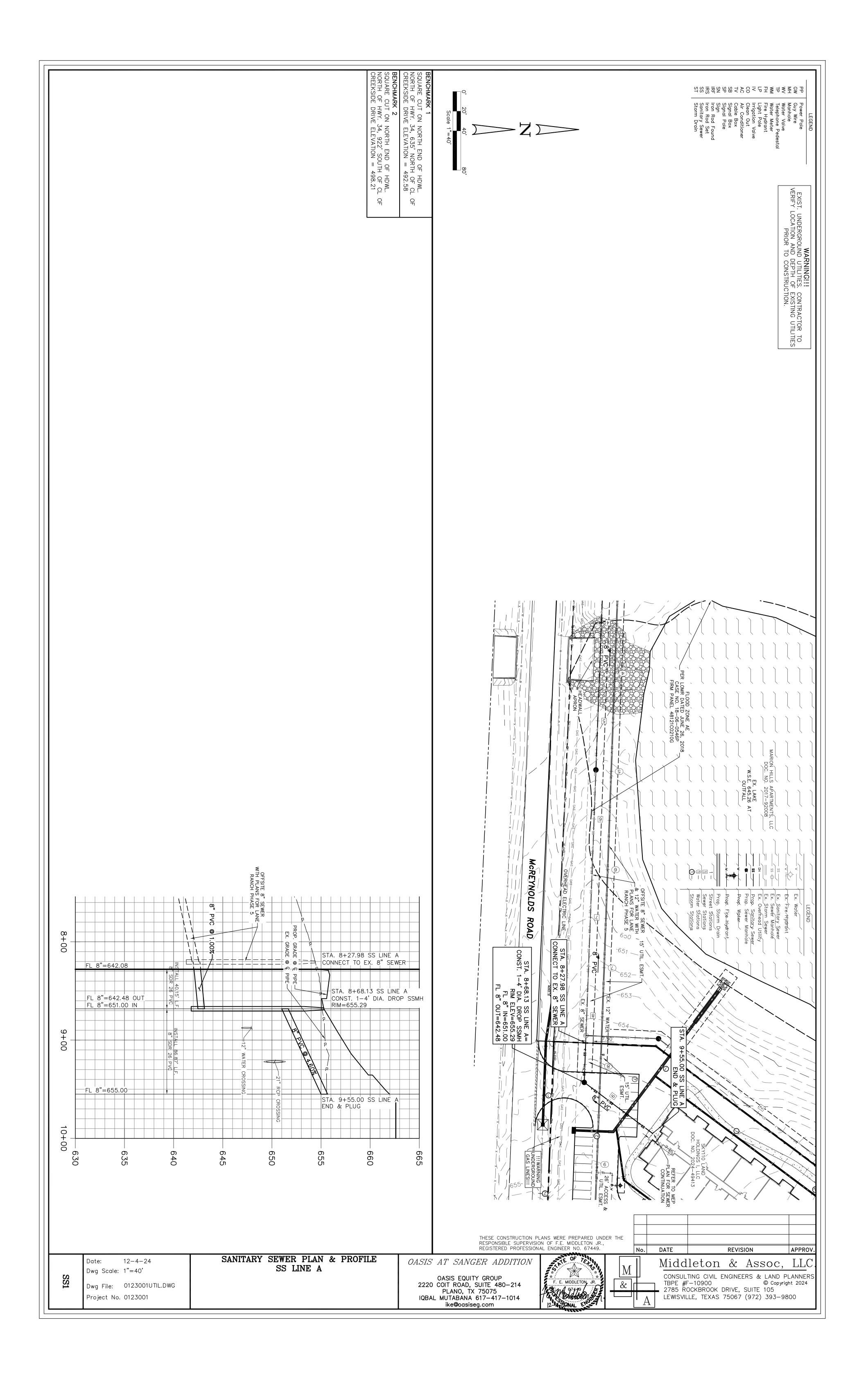
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		RECISTERED PROFESSIONAL E	NCINEER NO 67449	No.     DATE     REVISION     APPROV.
Date: 12-4-24 Dwg Scale: NTS	STORM DRAIN DETAILS	OASIS AT SANGER ADDITION	M	Middleton & Assoc, LLC
Dwg File: 0123001DT-STM.DWG Project No. 0123001		OASIS EQUITY GROUP 2220 COIT ROAD, SUITE 480-214 PLANO, TX 75075 IQBAL MUTABANA 617-417-1014 ike@oasiseg.com	F. E. MIDDLETON, JR. 67449 67449 C. C. C	A CONSULTING CIVIL ENGINEERS & LAND PLANNERS TBPE #F-10900 © Copyright 2024 2785 ROCKBROOK DRIVE, SUITE 105 LEWISVILLE, TEXAS 75067 (972) 393-9800
	Dwg Scale: NTS Dwg File: 0123001DT-STM.DWG	Dwg Scale: NTS Dwg File: 0123001DT-STM.DWG	Date:       12-4-24       STORM DRAIN DETAILS       OASIS AT SANGER ADDITION         Dwg Scale:       NTS	Date: 12-4-24 Dwg Scale: NTS Dwg File: 0123001DT-STM.DWG Project No. 0123001

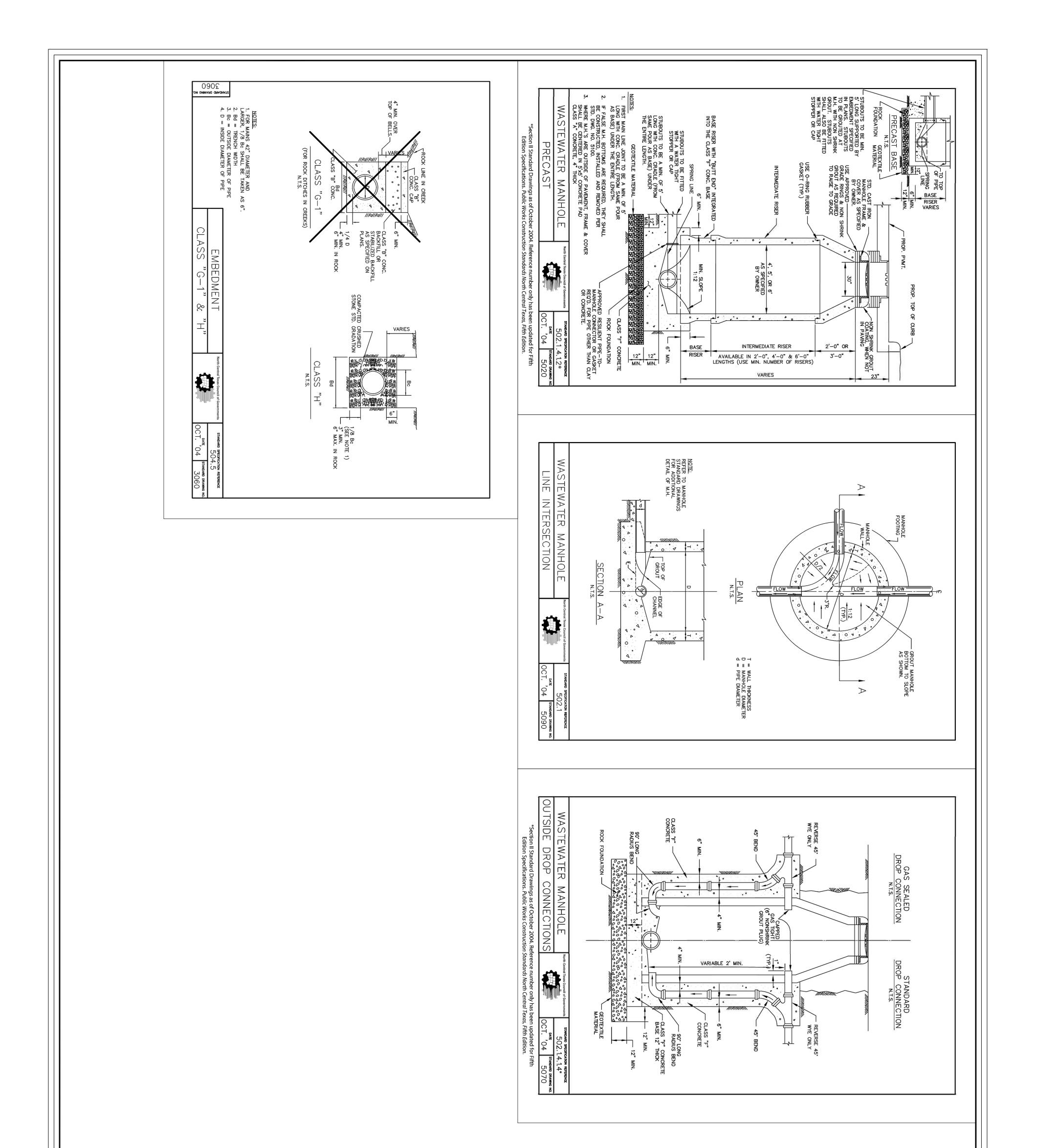
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60"	54"	48"	42"	36"	33"	30"	27"	17 17	18"	15"	12"	72"	66"	60"	54"	42" 48"	36"	33"	30"	24	21"	18"	15"	12"	109 199	60"	54"	42" 48"	36"	33"	30"	24"	21"	18"	15"	72"	66"	,000 14	лд <u>"</u>	42"	36"	ی 10 تې	27"	24"	10 21"	1 <i>5</i> "	12"	Dia of (D)	Pipe	
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7' - 3 ½"	8	- 1	-61	$4' - 11 \frac{1}{2}''$	- 8ª	1	ī   1	3' - 4'/2''		1	- 6"		- 10	ι ω	- 8	2' - 1 1/ 2' - 0 - 2.	- 11	- 8"	1	1 1	$3' - 4 \frac{1}{2'}$	- 1"	I	ເ ເ ເ	1	ι ω	1	6' - 1 ½"		=	- L	3' - 9 ½" A' - 1"	- 4	- 1"	2' - 9 ½" 2' - 9"	1	- 1		$6' - 1 \frac{1}{2}''$	- 6 <sup>1</sup> / <sub>2</sub>		$4' - 4''_{2''}$	- 1"	- 9	1 1	2' - 9 ½" 3' - 1"	- 6"	×	Value	
34' - 0''	1	28' - 0"	23' - 6"	20' - 6"	19' - 0"	1	1   1	ואי היי 1 אי היי	1	1	1	ī	1	1	1	15' - 8'' 18' - 8''	1	1	1	ı   ı	0 0 0" 8 - 8"	1	1	<u>5' - 8''</u>	1	1		11' - 9'' 14' - 0''		I		ייר יא ייר יא		1	4 J. - 0.	1	11	1   1	9' - 4" 10' A"	I I	ī I	5' - 10" 6' - 4"	1	11	- 4	3' - 4" 2' - 10"	1	Y	es for One	
၊ ယူ	35' - 9 ½"	- 4"	$27' - 1 \frac{1}{2}''$	23' - 8"	- 11	20' - 2 ½"	ו ו ש ע	15 - 0 1/2	s u	1	- 9		י 5	- 2"	0	18' - 1'' 21' - 6 3/"	- 9	- 7	1	17 - 2 3/11	10' - 0"	1	- 8 1	23 - 1 74 6' - 6 1//"	$21' - 4 \frac{1}{4''}$	19' - 7 ½"	1	13' - 6 ¼'' 16' - 2''	- 10	Q́ -	1	0' - 2 3/"	1	- 7	4' - 11'' $5' - 9 \frac{1}{3}''$	1	1	- 1"	$10' - 9 \frac{1}{4''}$	9' - 0 ½"		6' - 8 ¾" 7' - 3 ¾"	ן גע ס	I	1 1	3' - 10 ¼'' 4' - 5''	- 3 1/	Г	ș Pipe	
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	1	1	11.5	9.0	7.8	6.7	<del>7</del> .7	α <u>ν</u>	3.2	2.5	1.9	17.3	14.9	12.7	10.7	α υ.α	5.1	4.5	3.8	3 v.o	2,3	1.9	1.5	1.1	10.1	8.7	7.3	4.5 6.1	⊾ ບ. ບ	3.1	2.7	2.0	1.6	1.3	0.8 1.1	7.1	6.2	5.3	⊿ 3.8 л 8	2.8	2.2	1./	1.5	1.3	1.1	0.7 0 9	0.6	(CY)		
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6.0	5.0	4.0	3.0	2.3	2.0	1.7	1.4	<i>c r</i>	0./	0.5	0.4	5.6	4.9	4.3	3.6	2.1	1.7	1.4	1.3	10	0.7	0.5	0.4	<i>0.3</i>	3.9	3.4	2.9	2.3	1.4	1.2	1.0	0.0	0.6	0.5	0.3	ω. ε. ε	2.9	2.5	1.7	1.3	1.0	0.0	0.6	0.5	0.4	ο 2.0	0.2	(CY)		

DATE: FILE: 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.

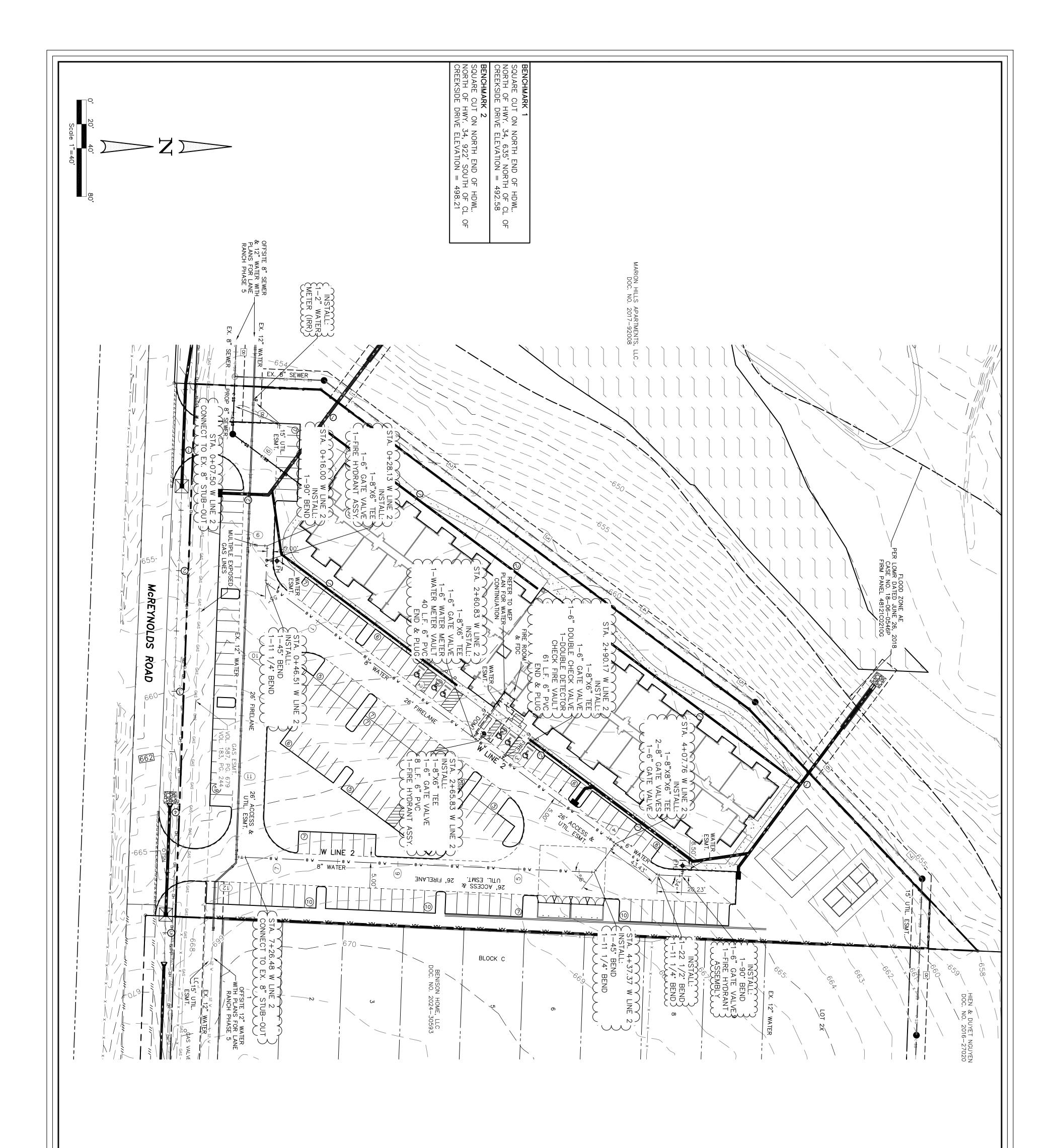


	CONC WITH O° SK FILE: CD-CH-FW0-20.dgn ©T xD0T February 20 REVISIONS	Texas De	Cover dimensions are clear Reinforcing dimensions are	<b>GENERAL NOTES:</b> Designed according to AASHTO Li Specifications. Do not mount bridge rails of any these culvert headwalls. This standard may not be used f exceeding the values shown.	MATERIAL NOTES: Provide Grade 60 reinfor Provide Class C concrete	6 Min Length Max Length 7 Lengths of line.	4 Dimensions s (5) Quantities sh (one headwa)	1       Quantities shown increase slightly         2       For vehicle safet than 3" above fin heights, if neces. requirements. Nu quantities and no be allowed for the allowed for the slowed for the sl	3 and B1-x	1'-2"►	1 in	4 <u>.</u>	$\begin{array}{ccc} & \sim & & 6 \\ & I' - O'' & & \sim \\ & \sim & & 4 \end{array}$	<pre></pre>	$\begin{array}{c} I' = O'' & \sim \\ I' = O'' & \sim \\ \sim & 4 \end{array}$		D	BLE OF 5 CING STEEL	
	I FLAF KEW	Department of T		C concrete ( Drding to AASH bridge rails o eadwalls. may not be u alues shown.	OTES: 60 reinforcing	h = 6" + 3" x h = 12 x H - f wings based	f" minimum shown are i nown are fu	nown are htly for safety, co safety, co e finishe e finishe ecessary s. No cha no ado or this w		72"	<i>66''</i>	48'' 54''	33" 36" 42"	27" 30"	21" 24"	12" 15"	Dia of Pipe (D)	CONST	
ST	E HEADW RED WINGS PIPE CULVE CONT XDOT CK: TXDOT DI CONT SECT JOB	Transportation	dimensions, unless out-to-out of bars.	RFD typ or w	ng steel. ng steel.	$\frac{12 \times n}{3'' \times \left(\frac{12}{12}\right)}$ on SL:1	over for ual and one str	r concrete stal pipe i struct curt struct curt grade. Re grade. Re o meet the yes will be onal comp k.		3' - 4"	ນ - ນ <u></u> - ນ <u>ຼ</u>	1 1	1' - 11" 2' - 1" 2' - 4"	1' - 8" 1' - 10"	1' - 4'' 1' - 7''	1 1	G	T ABL ANT	
COUNTY	ADWAL	ation	ess noted ars.	psi). Bridge De directly All height:		$\frac{\frac{1}{L}}{\frac{12}{12} \times \frac{H}{L} - 7}$ slope along	ω Ξ ·	for concrete pipe and will metal pipe installations. onstruct curbs no more d grade. Reduce curb , to meet these , to meet these ind anges will be made in anges will be made in litional compensation will ork.		1' - 3''	1' - 3'' 1' - 3''		1' - 0'' 1' - 0'' 1' - 0''	1' - 0'' 1' - 0''	$\frac{1}{1'} - 0''$ $\frac{1'}{0''} - 0''$		κ (4)	E OF DIMEN	
SHEET NO.	ALLS FOR FOR FRTS -0 -0 -0 HIGHWAY	Bridge Division Standard	otherwise.	sign to s, H,		- 1" this	only	ions. ore rb rb n will n will		7' - 3"	6' - 3''	5' - 3' 5' - 9'	3' - 9'' $4' - 0''$ $4' - 6''$	1   1	$\frac{2^{i}-9^{i}}{3^{i}-0^{i}}$	1 1	П	SIONS	
								THESE CONSTRUCT RESPONSIBLE SUP REGISTERED PROFE	ERVISION OF F	F.E. MIDI	DLETON J	IR.,	E <b>No.</b>	DATI				/ISION	APPROV.
DT-ST3	Date: 12-4-24 Dwg Scale: NTS Dwg File: 0123001DT-STM.DWG Project No. 0123001		STO	RM DRAIN D	DETAILS		OAS 2220 COI PI IQBAL MU	<i>" SANGER ADDITIC</i> SIS EQUITY GROUP T ROAD, SUITE 480–214 LANO, TX 75075 JTABANA 617–417–1014 ke <b>@</b> oasiseg.com		E. MIDDL	ETON JR. 49		M		NSULTIN PE #F-1 85 ROCK	G CIVIL 0900 <brook< th=""><th>n &amp; Engini</th><th>Asso</th><th></th></brook<>	n & Engini	Asso	

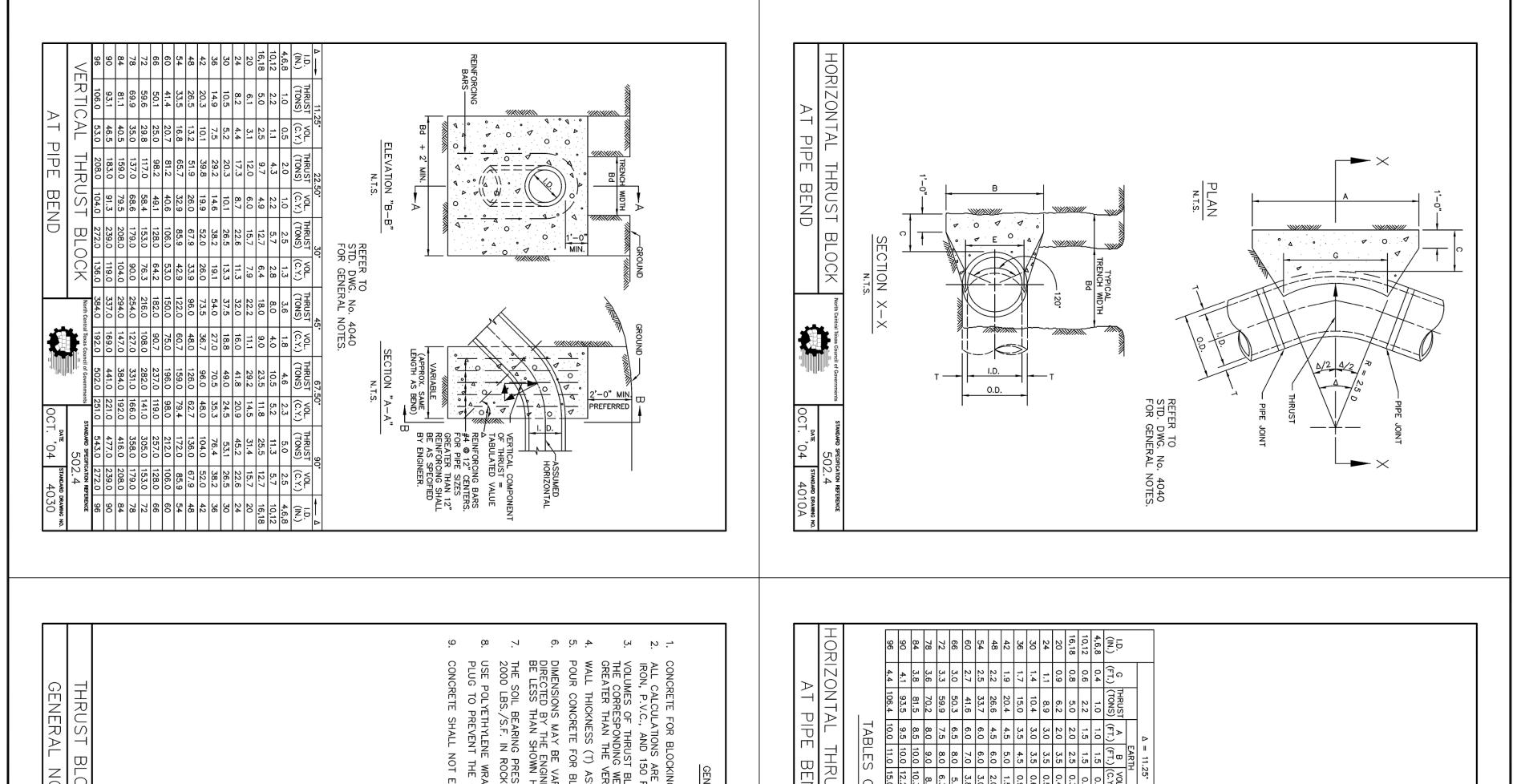




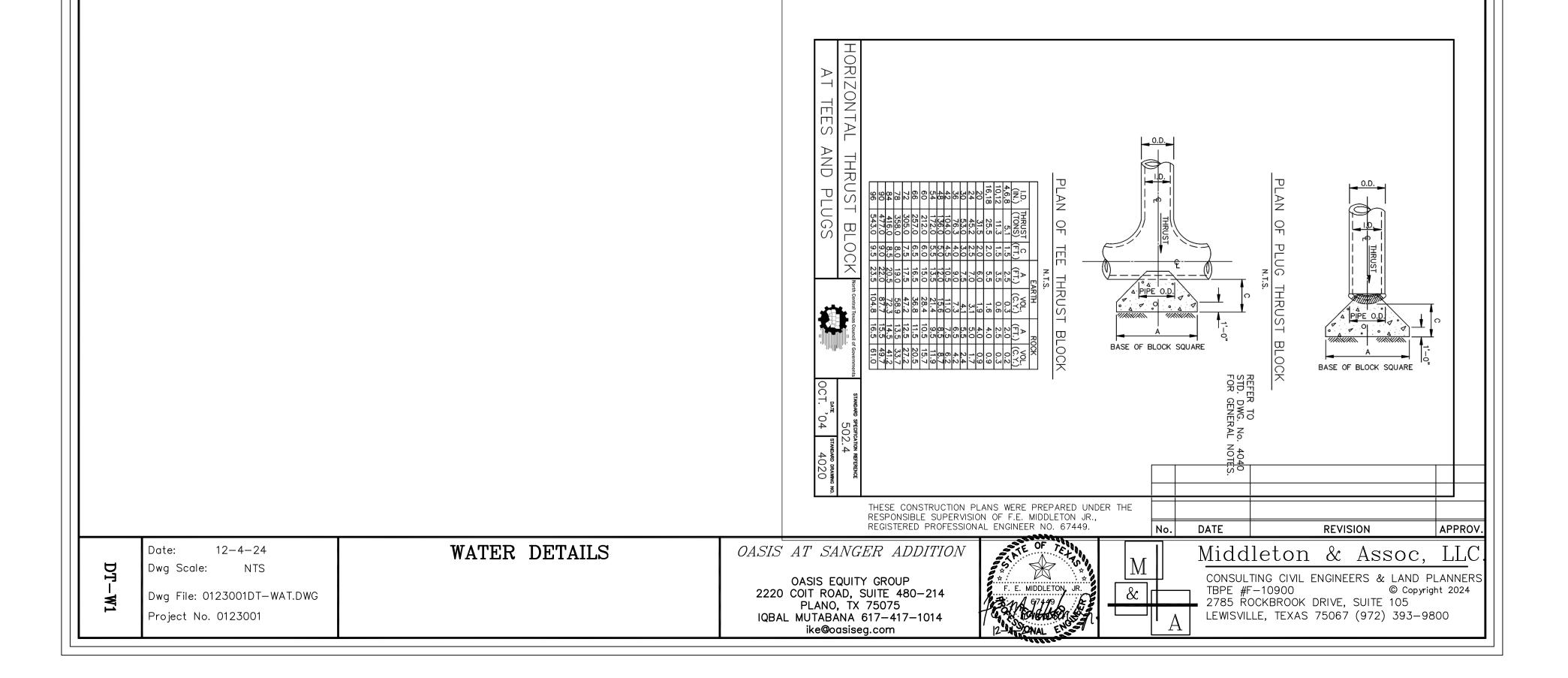
			THESE CONSTRUCTION PLANS WERE PREPARED UNDER THE RESPONSIBLE SUPERVISION OF F.E. MIDDLETON JR., REGISTERED PROFESSIONAL ENGINEER NO. 67449.       No. DATE       REVISION       APPROV.
	Date: 12-4-24 Dwg Scale: NTS	SANITARY SEWER DETAILS	OASIS AT SANGER ADDITION       OF       M       M       Middleton & Assoc, LLC         OASIS EQUITY GROUP       Image: Model and March
-SS1	Dwg File: 0123001DT-SS.DWG Project No. 0123001		OASIS EQUITY GROUP         2220 COIT ROAD, SUITE 480-214         PLANO, TX 75075         IQBAL MUTABANA 617-417-1014         ike@oasiseg.com

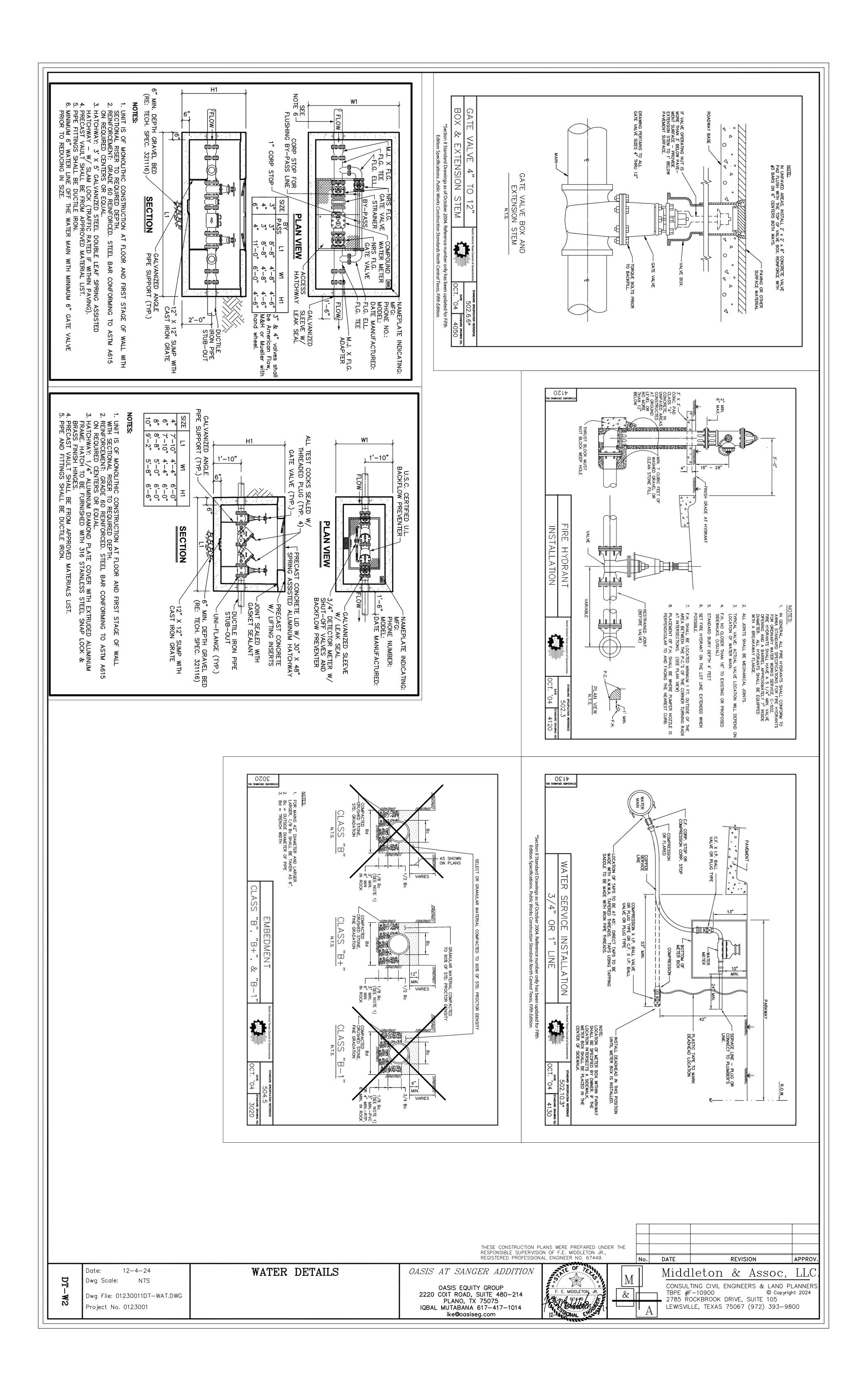


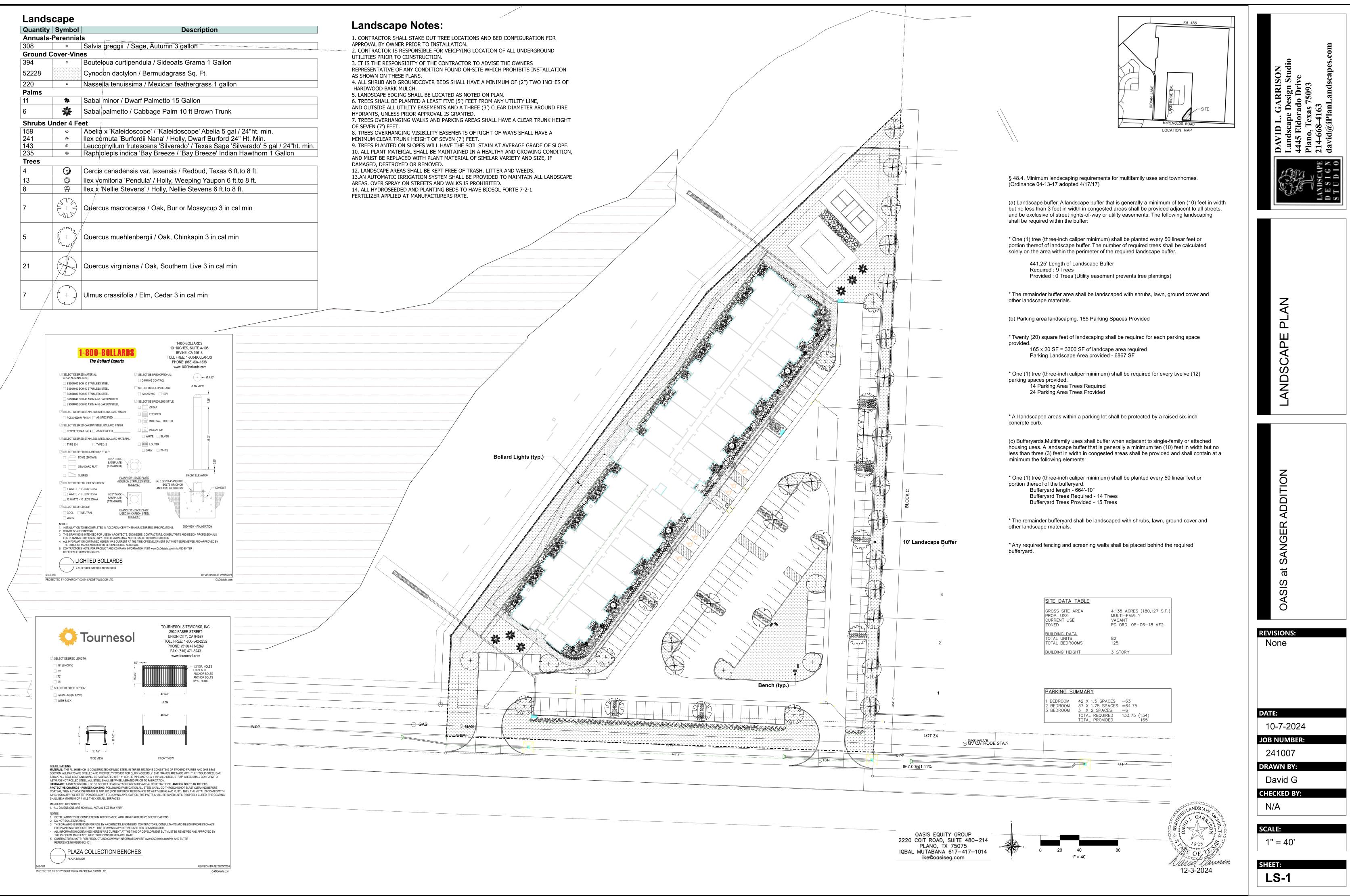
					LEGEND
					LEGEND PP Power Pole GW Guy Wire MH Manhole WV Water Valve TP Telephone Pedestal WM Water Meter FH Fire Hydrant LP Light Pole CO Clean Out AC Air Conditioner TV Cable Box SB Signal Pole SN Sign IRF Iron Rod Found IRS Sanitary Sewer ST Storm Drain
W1	Date: 12-4-24 Dwg Scale: 1"=40' Dwg File: 0123001UTIL.DWG Project No. 0123001	WATER PLAN	RESPONSIBLE SUPERVISIO	LANS WERE PREPARED UNDER THE DN OF F.E. MIDDLETON JR., IAL ENGINEER NO. 67449. No. F. E. MIDDLETON JR. F. E. MIDDLETON JR. G7449 A	DATE REVISION APPROV. Middleton & Assoc, LLC CONSULTING CIVIL ENGINEERS & LAND PLANNERS TBPE #F-10900 © Copyright 2024 2785 ROCKBROOK DRIVE, SUITE 105 LEWISVILLE, TEXAS 75067 (972) 393–9800

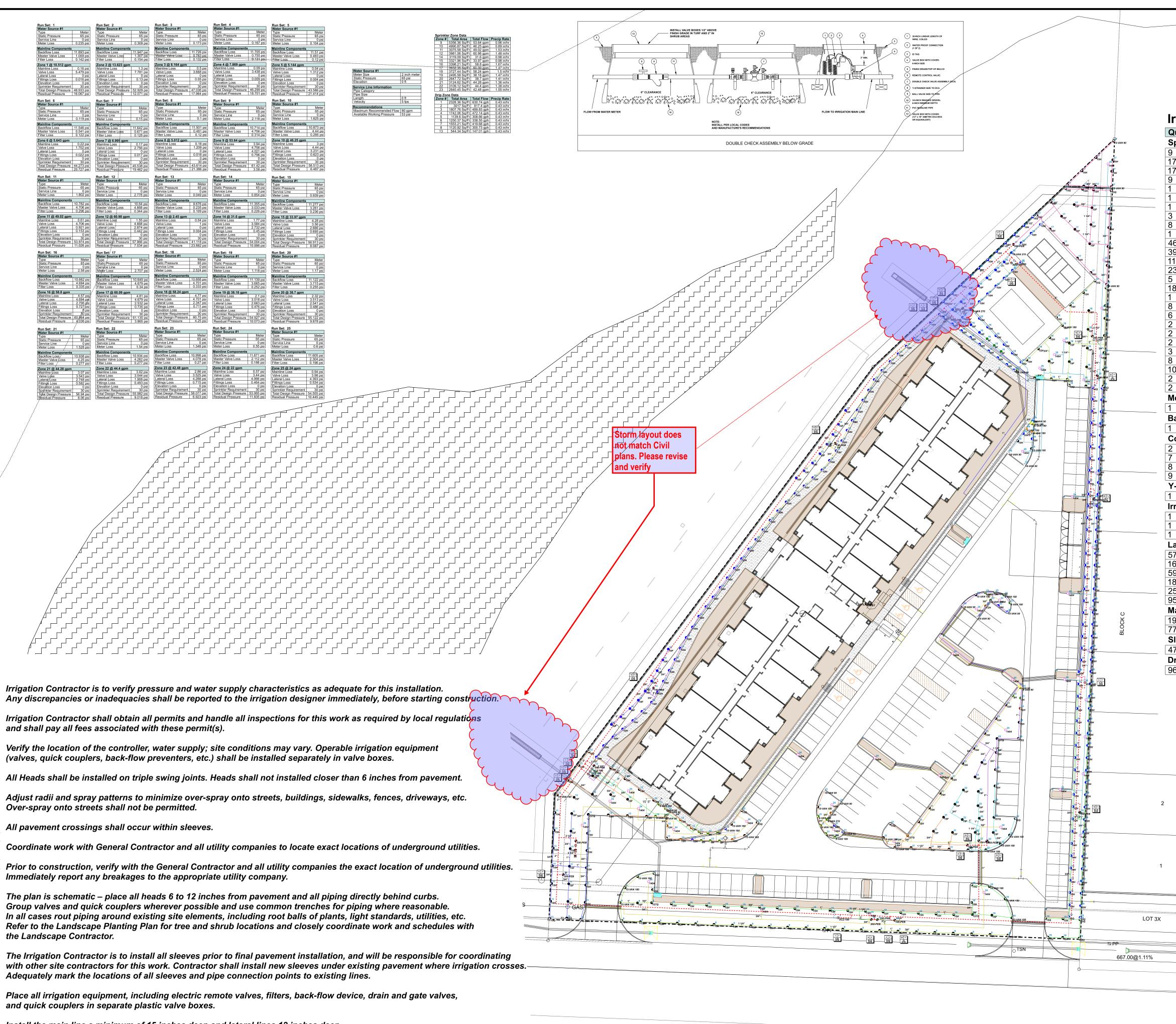


GENERAL NOTES FOR ALL THRUST BLOOKS:         CARE BASED ON INTERNAL PRESSURE OF 200 PSI FOR DUCTLE 50 PSI FOR CONCRETE PPE:         SWERTOR-L COMPORENT OF THE THRUST ON THE VERTICAL BEAD VERTOR-L COMPORENT OF THE THRUST ON THE VERTICAL BEND.         VASUMED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS (QUREER, THE VOLUME OF CONCRETE BLOCKING SHALL NOT WERE.         VERTOR-L COMPORENT OF THE THRUST ON THE VERTICAL BEND.         VASUMED AS REQUIRED BY FIELD CONDITIONS WHERE AND AS (QUREER, THE VOLUME OF CONCRETE BLOCKING SHALL NOT WERE.         VERTOR-L CONCRETE FIELD CONDITIONS WHERE AND AS (QUREER, THE VOLUME OF CONCRETE AND BEND, TEE, OR THE CONCRETE FROM STICKING TO IT.         VT EXTEND BEVOND JOINTS.         SLOCK         NOTES       Mentant Advances         MOTES       Mentant Advances         MOTES       Mentant Advances	$ \frac{10}{101} \frac{1}{102} $









*Irrigation Contractor is to verify pressure and water supply characteristics as adequate for this installation.* 

Irrigation Contractor shall obtain all permits and handle all inspections for this work as required by local regulations and shall pay all fees associated with these permit(s).

Verify the location of the controller, water supply; site conditions may vary. Operable irrigation equipment (valves, quick couplers, back-flow preventers, etc.) shall be installed separately in valve boxes.

Adjust radii and spray patterns to minimize over-spray onto streets, buildings, sidewalks, fences, driveways, etc.

All pavement crossings shall occur within sleeves.

Prior to construction, verify with the General Contractor and all utility companies the exact location of underground utilities. Immediately report any breakages to the appropriate utility company.

Group valves and quick couplers wherever possible and use common trenches for piping where reasonable. In all cases rout piping around existing site elements, including root balls of plants, light standards, utilities, etc. Refer to the Landscape Planting Plan for tree and shrub locations and closely coordinate work and schedules with the Landscape Contractor.

The Irrigation Contractor is to install all sleeves prior to final pavement installation, and will be responsible for coordinating Adequately mark the locations of all sleeves and pipe connection points to existing lines.

Place all irrigation equipment, including electric remote valves, filters, back-flow device, drain and gate valves, and quick couplers in separate plastic valve boxes.

Install the main line a minimum of 15 inches deep and lateral lines 12 inches deep.

Inline drip tubing installed on 18 inch row width.

All tree bubblers shall be installed on the high side if each tree, so that watering occurs within the tree ring and is directed toward the tree. Coordinate with the Landscape Contractor for proper placements.

	Symbol	Description	Pressure	Flow	Radius
prinkler	S			4 50	10.5
7		Rain Bird 10F - 1804	30 psi	1.58 gpm	
7 71		Rain Bird 10F - 1804-SAM-PRS Rain Bird 10H - 1804-SAM-PRS	30 psi 30 psi	1.58 gpm 0.79 gpm	10 ft 10 ft
/ 1	$\overline{\bullet}$	Rain Bird 10Q - 1804-SAM-PRS	30 psi	0.39 gpm	10 ft
	•	Rain Bird 10-VAN 180 - 1812-SAM-PRS	30 psi	1.45 gpm	10 ft
		Rain Bird 10-VAN 270 - 1804	30 psi	2.1 gpm	10 ft
		Rain Bird 10-VAN 270 - 1804-SAM-PRS	30 psi	2.1 gpm	10 ft
	<b>O</b>	Rain Bird 10-VAN 90 - 1804-SAM-PRS	30 psi	0.75 gpm	
	•	Rain Bird 12H - 1804-SAM-PRS	30 psi	1.3 gpm	12 ft
6		Rain Bird 12TQ - 1804-SAM-PRS Rain Bird 1404 - 1806-SAM-PRS	30 psi	1.95 gpm	12 ft 0 ft
0 9		Rain Bird 15F - 1804-SAM-PRS	30 psi 30 psi	1 gpm 3.7 gpm	15 ft
<u> </u>		Rain Bird 15H - 1804-SAM-PRS	30 psi	1.85 gpm	15 ft
3	$\overline{\bullet}$	Rain Bird 15Q - 1804-SAM-PRS	30 psi	0.92 gpm	
		Rain Bird 15TQ - 1804-SAM-PRS	30 psi	2.78 gpm	15 ft
8	$\bigcirc$	Rain Bird 15-VAN 180 - 1804-SAM-PRS	30 psi	1.85 gpm	15 ft
	$\odot$	Rain Bird 15-VAN 90 - 1804	30 psi	0.92 gpm	
		Rain Bird 15-VAN 90 - 1804-SAM-PRS	30 psi	0.92 gpm	15 ft
		Rain Bird 18-VAN 90 - 1804	30 psi	1.33 gpm	18 ft
	$\overline{}$	Rain Bird 4-VAN 180 - 1804-PRS Rain Bird 4-VAN 90 - 1804-SAM-PRS	30 psi 30 psi	0.45 gpm 0.29 gpm	4 ft 4 ft
	•	Rain Bird 6-VAN 180 - 1804-SAM-INS	30 psi	0.23 gpm 0.6 gpm	6 ft
		Rain Bird 8F - 1804	30 psi	1.05 gpm	
1	•	Rain Bird 8H - 1804-SAM-PRS	30 psi	0.52 gpm	
0	$\bigcirc$	Rain Bird 8-VAN 180 - 1804-SAM-PRS	30 psi	1.19 gpm	8 ft
		Rain Bird 8-VAN 270 - 1804-SAM-PRS	30 psi	1.55 gpm	8 ft
		Rain Bird 8-VAN 90 - 1804-SAM-PRS	30 psi	0.72 gpm	8 ft
leters/Pu	imps		1		
	Μ	2 inch meter			
Backflow	Assembl		1		
	OC	Wilkins 350 - 2"			
ontrol V			l		
		Rain Bird 100-PEB			
		Rain Bird 150-PEB Rain Bird 200-PEB			
	$\bigcirc$	Rain Bird XCZ-100			
	rs / Filter				
-Strame		wilkins S-2 1/2"	]		
rigation	Accesso		]		
nyation	<u><u><u>A</u></u></u>	Rain Bird ESPLXMI-28	]		
		Rain Bird WRFST	_		
		Spears 2 1/2" Gray PVC - Socket			
ateral Li	ne Pipe		1		
706 ft		Class 200 3/4"			
607 ft	· ·	Class 200 1"	4		
93 ft		Class 200 1 1/4"			
89 ft		Class 200 1 1/2"			
59 ft		Class 200 2"			
5 ft		Class 200 2 1/2"			
lainline l	Pipe		1		
947 ft		Class 200 2"			
7 ft		Class 200 2 1/2"			
leeving			1		
71 ft		Schedule 40 4"	J		
Prip Tubi	ng		]		
670 ft		Netafim TLCV6-18			

© GAS VALVE © GV CATHODE STA.?  $\star$ DAVID LEE GARRISON 4655 Varia Varisan 10-22-2024

1" = 40'

Irrigation in Texas is regulated by the Texas Commission On Environmental Quality (TCEQ) (MC-178), P. O. Box 13087, Austin, Texas78711-3087. TCEQ's web site is: www.tceq.state.tx.us.

"This irrigation system has been designed in accordance with all applicable state & local laws, ordinances, rules, regulations or orders"

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IRRIGATION PLAN
OASIS at SANGER ADDITION
REVISIONS: None DATE: 10-22-2024 JOB NUMBER:
241007 DRAWN BY: David G CHECKED BY: N/A SCALE: 1" = 40' SHEET: