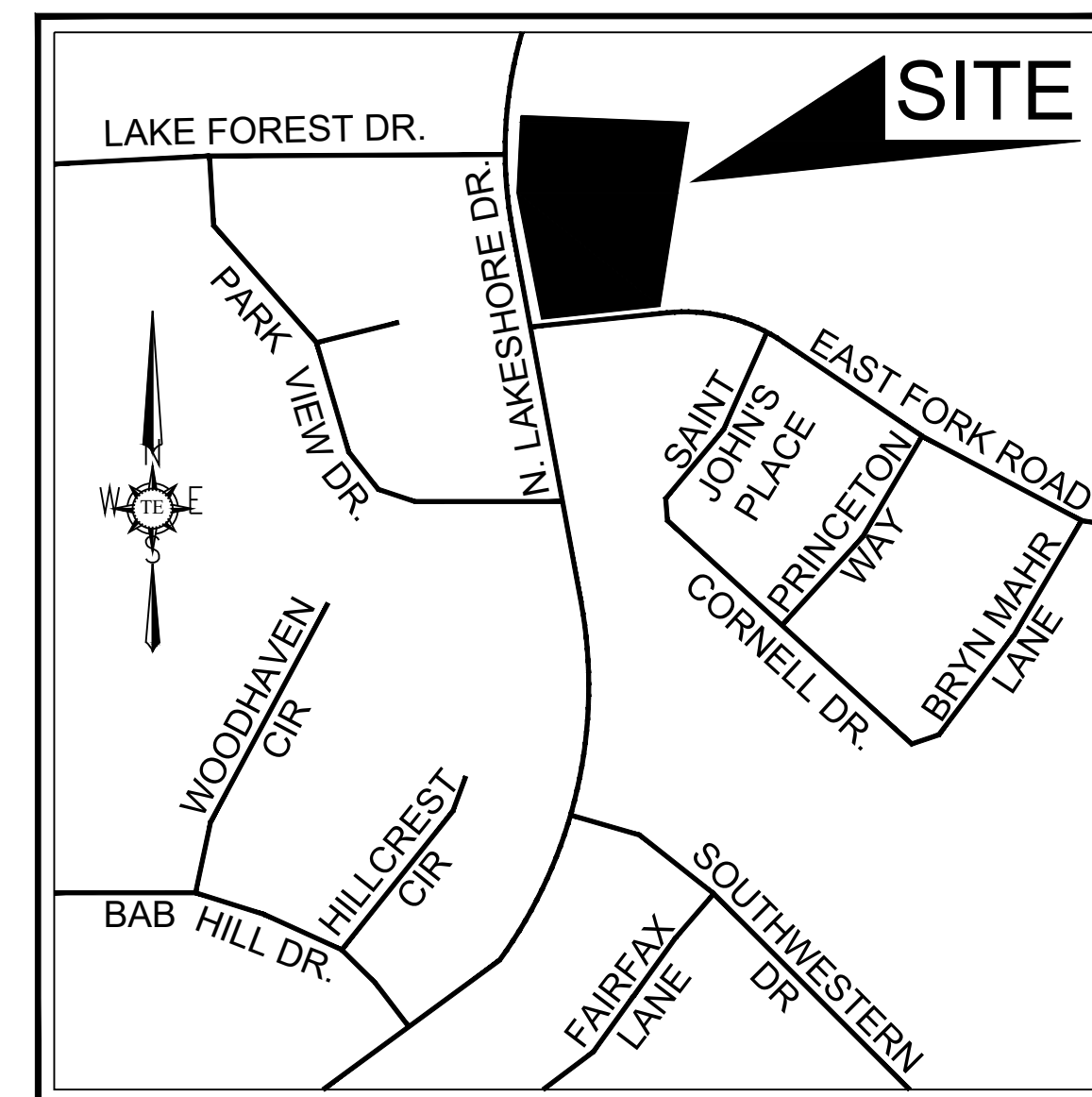


SITE DEVELOPMENT PLANS FOR KIDDIE ACADEMY

NEC OF NORTH LAKESHORE DRIVE &
EAST FORK ROAD
CITY OF ROCKWALL

RECORD DRAWINGS

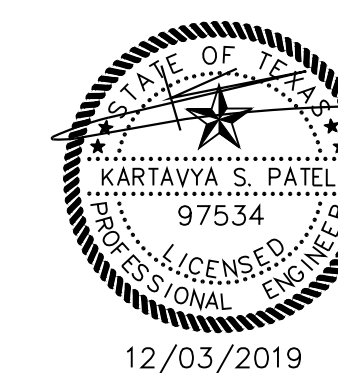
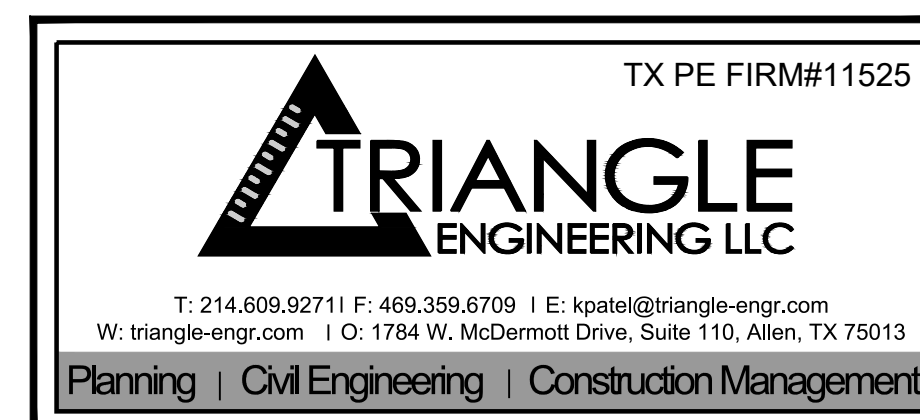
PROJECT CONTACT LIST:	
DEVELOPER/OWNER DUNKIN ACADEMY ROCKWALL LLC 320 N. TOWN EAST BLVD. SUNNYVALE, TEXAS 75182 CONTACT: JOHN DUNKIN TEL: (469) 358-5590	SURVEYOR A & W SURVEYORS, INC. P.O. BOX 870029 MESQUITE, TEXAS 75187 CONTACT: JOHN TURNER, R.P.L.S. TEL: (972) 681-4975
ENGINEER TRIANGLE ENGINEERING LLC (TBPE FIRM # 11525) 1784 W. McDERMOTT DRIVE, SUITE 110 ALLEN, TEXAS 75013 CONTACT: KARTAVYA PATEL TEL: (214) 609-9271	ARCHITECT GARY WOOD ARCHITECTS 4606 PARK SPRINGS BLVD, SUITE 110 ARLINGTON, TEXAS 76017 CONTACT: GARY WOOD TEL: (817) 975-9767



VICINITY MAP
N.T.S

SHEET INDEX	
SHEET NO.	DESCRIPTION
CS	COVER SHEET
S	SURVEY
P1	FINAL PLAT (PAGE 1)
P2	FINAL PLAT (PAGE 2)
DM	DEMOLITION PLAN
3	SITE PLAN
4	DIMENSION CONTROL PLAN
5	GRADING PLAN
6	EXISTING DRAINAGE AREA MAP
6.1	PROP. DRAINAGE AREA MAP & DRAINAGE PLAN
6.2	DETENTION CALCULATIONS & STORM PROFILE
6.3	PROPOSED DETENTION & STORM PROFILE
7	PAVING PLAN
7.1	PAVING DETAILS
8	UTILITY PLAN
8.1	WATER PLAN
8.2	WATER PROFILE
9	EROSION CONTROL PLAN
9.1	EROSION CONTROL DETAILS
10	ADA COMPLIANCE PLAN

REVISION BLOCK		
NO.	DATE	DESCRIPTION
1	12/03/2019	AS-BUILT RECORD DRAWINGS

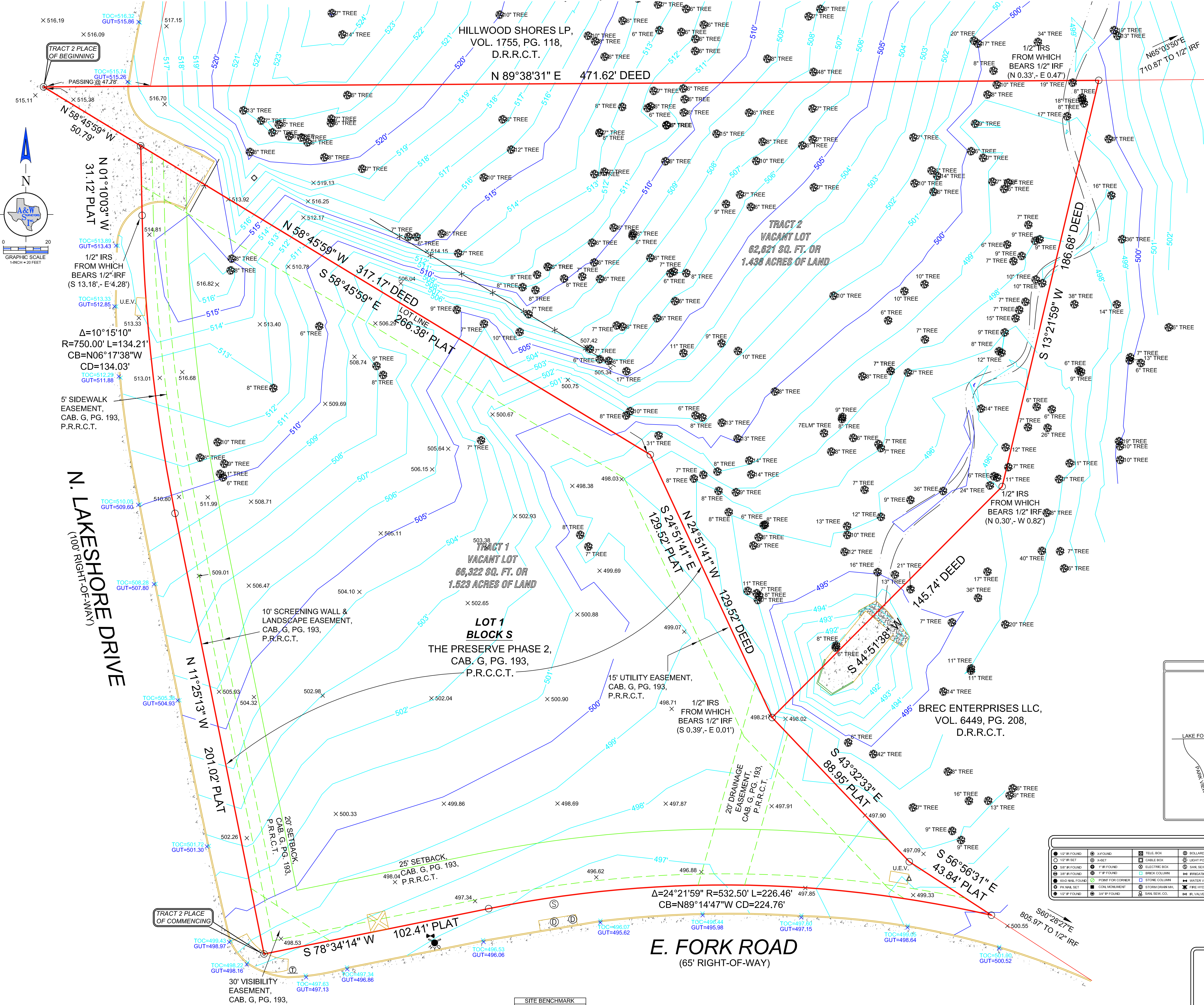


AS-BUILT DRAWINGS:
TO THE BEST OF OUR KNOWLEDGE TRIANGLE ENGINEERING LLC.,
HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION
PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION
PROVIDED BY THE CONTRACTOR.

[Signature]
KARTAVYA S. PATEL, P.E. NO. 97534

BEING ALL OF LOT 1, BLOCK S,
OF THE PRESERVE PHASE 3,
AN ADDITION TO THE
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

ALTA / NSPS LAND TITLE SURVEY



LEGAL DESCRIPTION

TRACT 1
Being all of Lot 1, Block S, of The Preserve Phase 2, an Addition to the City of Rockwall, Rockwall County, Texas, according to the plat thereof recorded in Cabinet G, Page 193, Plat Records, Rockwall County, Texas.

TRACT 2
Being all that certain lot, tract or parcel of land located in the A, Hanna Survey, Abstract No. 98, City of Rockwall, Rockwall County, Texas, and being the same tract of land described in deed to Master Developers-SNB LLC, recorded in Instrument No. 2011-0048460, Official Public Records, Rockwall County, Texas, and being more particularly described as follows:
Commencing at an "X" set in concrete at the intersection of the North line of E. Fork Road, a 65' right-of-way, and the East line of N. Lakeshore Drive, a 100' right-of-way, said point being the Southwest corner of Lot 1, Block S, of The Preserve Phase 2, an Addition to the City of Rockwall, Rockwall County, Texas, according to the plat thereof recorded in Cabinet G, Page 193, Plat Records, Rockwall County, Texas;
Thence North 11°25'13" West, along said East line, a distance of 201.02' to a 1/2" iron rod with a yellow plastic cap stamped "RPLS 5310" set for corner at the beginning of a tangent curve to the right, having a central angle of 10°15'10", a radius of 750.00', and a chord bearing and distance of North 06°17'38" West, 134.03';
Thence Northwest, along said East line and said curve to the right, an arc distance of 134.21' to a 1/2" iron rod with a yellow plastic cap stamped "RPLS 5310" set for corner;
Thence North 01°10'03" West, along said East line, a distance of 31.12' to an "X" set for corner in the Southwest line of said Master Developers-SNB LLC tract;
Thence North 58°45'59" West, a distance of 50.79' to an "X" set at the West corner of said Master Developers-SNB LLC tract, same being the PLACE OF BEGINNING of the tract described herein;
Thence North 89°38'31" East, passing at a distance of 47.78' the Southwest corner of a tract of land described in deed to Hillwood Shores LP, recorded in Volume 1755, Page 118, Deed Records, Rockwall County, Texas, continuing along the South line of said Hillwood Shores LP tract, a total distance of 471.62' to a 1/2" iron rod with a yellow plastic cap stamped "RPLS 5310" set at the most Westerly Northwest corner of a tract of land described in deed to BREC Enterprises LLC, recorded in Volume 6449, Page 208, Deed Records, Rockwall County, Texas;
Thence South 13°21'59" West, a distance of 186.68' to a 1/2" iron rod with a yellow plastic cap stamped "RPLS 5310" set for corner;
Thence South 44°51'38" West, a distance of 145.74' to a 1/2" iron rod with a yellow plastic cap stamped "RPLS 5310" set for corner in the Northeast line of said Lot 1, at the most Westerly Southwest corner of said BREC Enterprises LLC tract, at the Southerly corner of said Master Developers-SNB LLC tract;
Thence North 24°51'41" West, along said Northeast line, a distance of 129.52' to a 1/2" iron rod with a yellow plastic cap stamped "RPLS 5310" set for corner;
Thence North 58°48'59" West, continuing along said Northeast line, passing at a distance of 266.38' to a 1/2" iron rod with a yellow plastic cap stamped "RPLS 5310" set in the said East line of N. Lakeshore Drive, continuing a total distance of 317.17' to the PLACE OF BEGINNING and containing 62,621 square feet or 1.438 acres of land.

SURVEYOR'S CERTIFICATION

To: John Dunkin, Master Developers-SNB, LLC, a Texas limited liability company, and First National Title Insurance Company

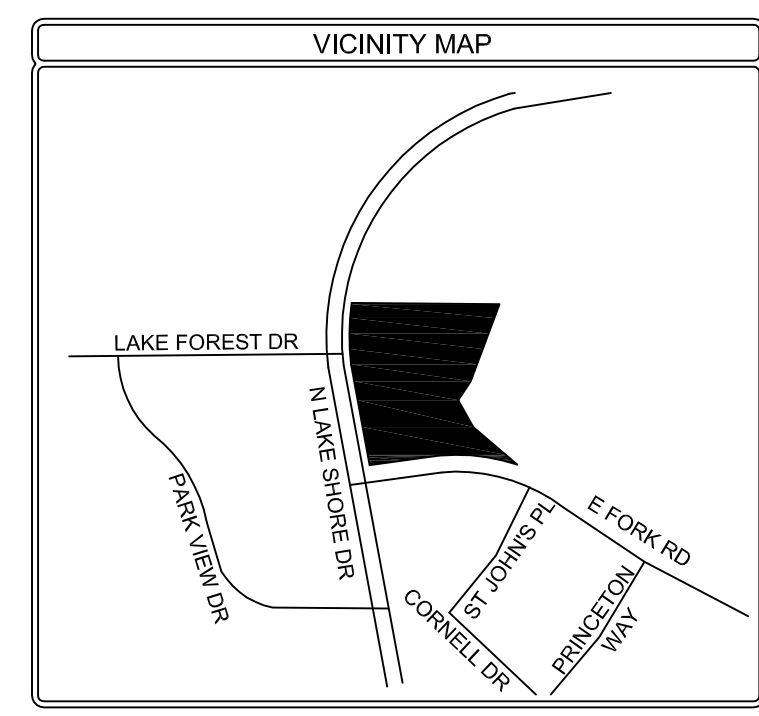
This is to certify that this map or plat and the survey on which it is based were made in accordance with the 2016 Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys, jointly established and adopted by ALTA and NSPS, and includes Items 1, 2, 3, 4, 7(a), 8, 9, 11, and 13 of Table A thereof.

The fieldwork was completed on May 31st, 2016.
Date of Plat or Map: June 20th, 2016

**PRELIMINARY SURVEY
NOT FOR RECORDING PURPOSES**

JOHN S. TURNER RPLS 5310

- SCHEDULE "B" EASEMENTS**
- 10j) Subject to Lone Star gas easement, Vol. 25, Pg. 646, R.P.R.C.T. blanket in nature as modified by Partial Release, Vol. 103, Pg. 369, R.P.R.C.T. not plottable due to lack of math.
 - 10j) Subject to Lone Star gas easement, Vol. 25, Pg. 685, R.P.R.C.T. blanket in nature as modified by Partial Release, Vol. 103, Pg. 369, R.P.R.C.T. not plottable due to lack of math.
 - 10k) Subject to water line easement, Vol. 71, Pg. 529, R.P.R.C.T. blanket in nature
 - 10L) Subject to water line easement, Vol. 100, Pg. 635, R.P.R.C.T. not plottable due to lack of math.
 - 10m) Subject to mineral state and interest, and rights incident thereto, Vol. 29, Pg. 317, R.P.R.C.T. blanket in nature
 - 10o) Subject to mineral state and interest, and rights incident thereto, Vol. 47, Pg. 42, R.P.R.C.T. blanket in nature
 - 10p) Subject to mineral state and interest, and rights incident thereto, Vol. 22, Pg. 341, R.P.R.C.T. blanket in nature



LEGEND

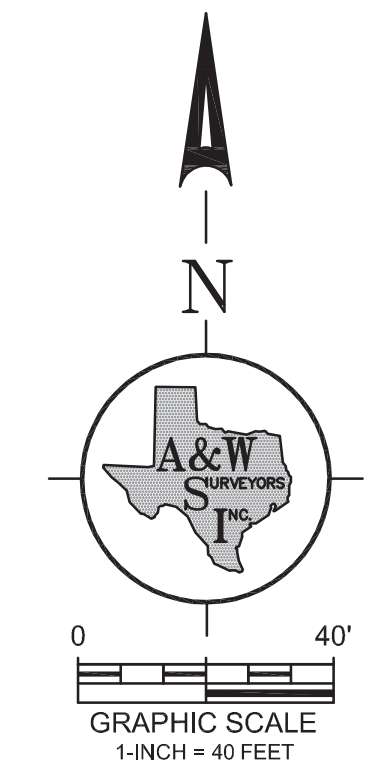
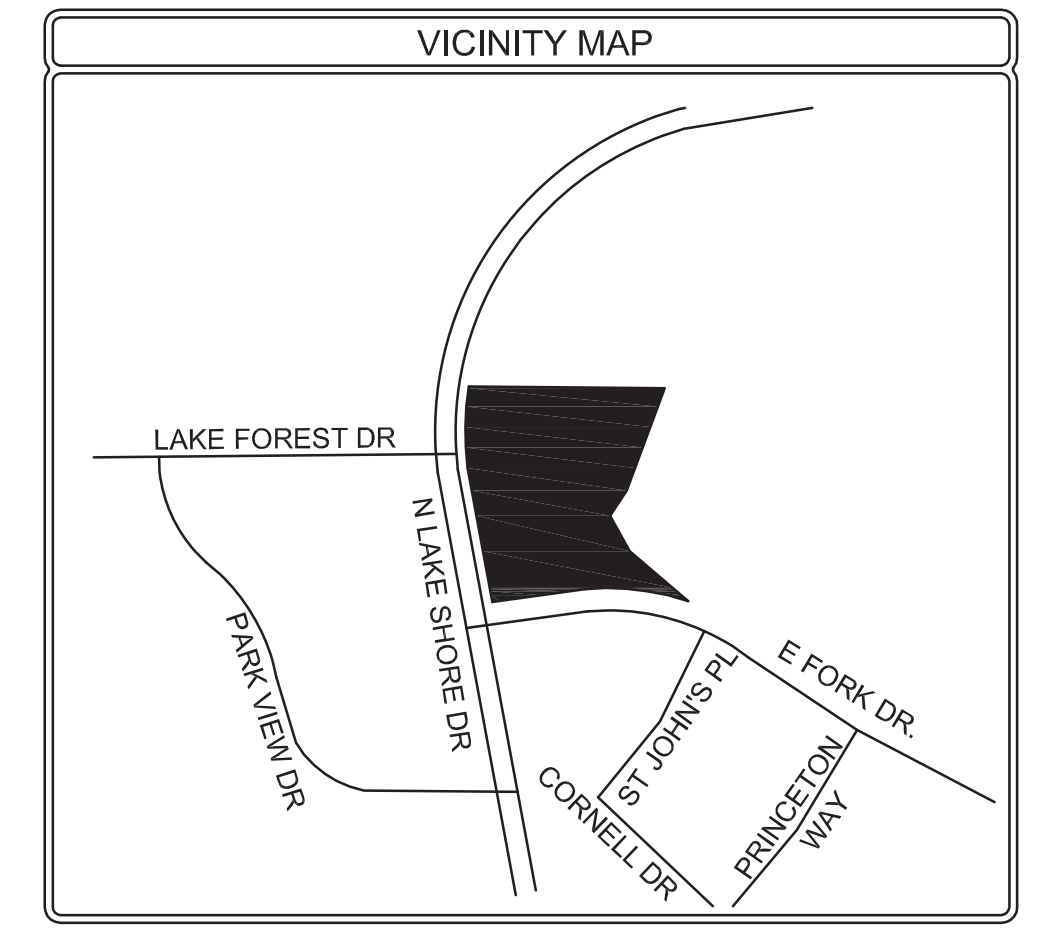
1/2" IR FOUND	4" FOUND	TELE. BOX	ESLAND POST	UTILITY POLE	OVERHEAD UTILITY LINE	PLASTIC FENCE	CONCRETE	BUILDING LINE
1/2" IR SET	X SET	CABLE BOX	LIGHT POLE	WATER METER	GLY WIRE ANCHOR	ASPHALT	GRAVEL	EASEMENT
5/8" IR FOUND	1" IR FOUND	ELECTRIC BOX	SAN SEW. MKL	GAS METER	BARBED WIRE FENCE	FIRE LINE STRIP	BRICK	BOUNDARY
3/8" IR FOUND	1" IR FOUND	BREK. COLUMN	STONE COLUMN	AC. PAD	IRON FENCE	BRICK RET. WALL	WOOD DECK	HIGHWAY LINE
5/8" IR FOUND	1" IR FOUND	STONE COLUMN	STONE COLUMN	TRANS. BOX	WOOD FENCE	STONE RET. WALL	WOOD DECK	PARKING STRIP
1/2" IR FOUND	3/4" IR FOUND	STONE COLUMN	STONE COLUMN	POOL EQUIP.	PIPE RAIL FENCE	WOOD FENCE	BUILDING WALL	PARKING SPACE
1/2" IR FOUND	3/4" IR FOUND	SAN SEW. CO.	BL. VALVE			WOOD FENCE	BUILDING WALL	

A&W SURVEYORS, INC.
Professional Land Surveyors
TEXAS REGISTRATION NO. 100174-00
P.O. BOX 870029, MESQUITE, TX. 75187
PHONE: (972) 681-4975 FAX: (972) 681-4954
WWW.AWSURVEY.COM

**N. LAKESHORE DRIVE &
E. FORK ROAD
ROCKWALL, TEXAS**

JOB# 18-0738 DRAWN BY: SJT

NOTE: All 1/2" IRs are 1/2-inch iron rods with yellow plastic caps stamped "RPLS 5310". Bearings and distances are derived from plat recorded in Cabinet G, Page 193, P.R.C.T.



- GENERAL NOTES**
- Any structure new or existing may not extend across new property lines.
 - The purpose of this plat is to create one (1) platted lot from from one (1) plat and two (2) tracts of land.
 - Basis of bearing determined by Texas State Plane Coordinate System, North Central Zone, North American Datum of 1983 (2011).
 - Coordinates shown are Texas State Plane Coordinate System, North Central Zone, North American Datum of 1983 on Grid Coordinate values, No Scale, No Projection
 - 16" Water lines shown are approximate location.
 - It shall be the policy of the City of Rockwall to withhold issuing building permits until all streets, water, sewer and storm drainage systems have been accepted by the City. The approval of a plat by the City does not constitute any representation, assurance or guarantee that any building within such plat shall be approved, authorized or permit therefore issued, nor shall such approval constitute any representation, assurance or guarantee by the City of the adequacy and availability for water for personal use and fire protection within such plat, as required under Ordinance 83-54.

LEGEND

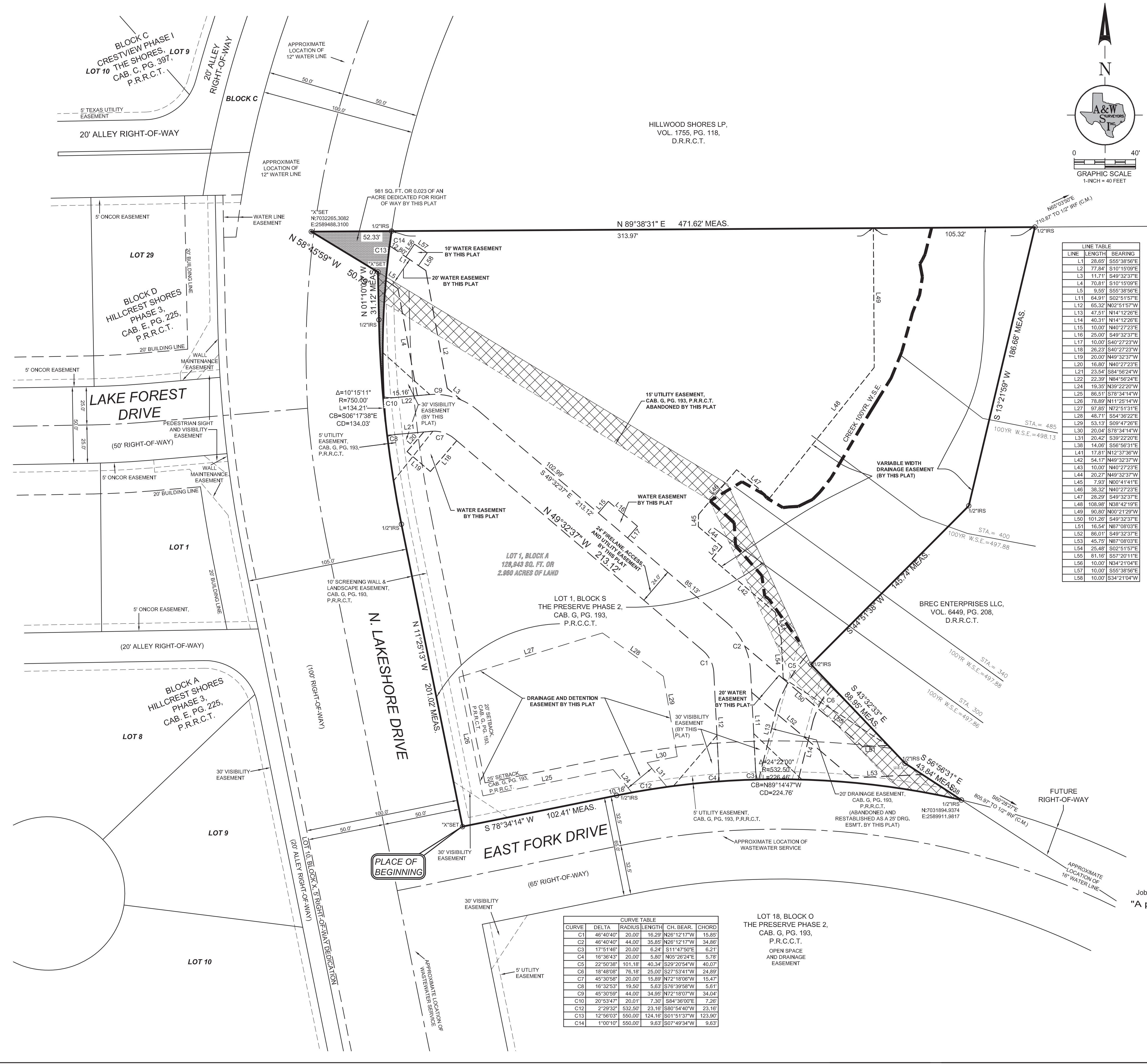
D.R.R.C.T.	Deed Records, Rockwall County, Texas
P.R.R.C.T.	Plat Records, Dallas County, Texas
O.P.R.R.C.T.	Official Public Records, Rockwall County, Texas
C.M.	Controlling Monument
VOL.	Volume
PG.	Page
INST. NO.	Instrument Number
IRF	iron rod found
IRS	1/2" iron rod with a yellow plastic cap stamped "RPLS 5310" set
SQ. FT.	square feet



A&W SURVEYORS, INC.
 Professional Land Surveyors
 TEXAS REGISTRATION NO. 100174-00
 P.O. BOX 870029, MESQUITE, TX. 75187
 PHONE: (972) 681-4975 FAX: (972) 681-4954
 WWW.AWSURVEY.COM

Owner: Dunkin Academy on Lakeshore LLC
 ~ 9628 Greensprint Dr. ~
 ~ Dallas, Texas, 75238 ~
 Job No: 16-0737 | Drawn by: 024 | Date: 09-09-2016 | Revised: 05-18-2017 / 06-30-2017
 "A professional company operating in your best interest!"

PAGE 1 OF 2
FINAL PLAT
LOT 1, BLOCK A
NORTH LAKE SHORE DAYCARE
 2.960 ACRES OF LAND
 BEING A REPLAT OF LOT 1, BLOCK S
 THE PRESERVE PHASE 3
 AN ADDITION TO THE CITY OF ROCKWALL,
 ROCKWALL COUNTY, TEXAS
 A. HANNA SURVEY ABSTRACT NO. 98
 CASE FILE NO. P2017-043



LINE TABLE

LINE	LENGTH	BEARING
L1	28.65	S55°38'56"E
L2	77.84	S10°15'09"E
L3	117.11	S49°32'37"E
L4	70.81	S10°15'09"E
L5	9.55	S55°38'56"E
L11	64.91	S02°51'57"E
L12	65.32	N02°51'57"W
L13	47.51	N14°12'26"E
L14	40.31	N14°12'26"E
L15	10.00	N40°27'23"E
L16	25.00	S49°32'37"E
L17	10.00	S40°27'23"W
L18	26.23	S40°27'23"W
L19	20.00	N49°32'37"W
L20	16.80	N40°27'23"E
L21	23.54	S34°56'24"W
L22	22.39	N84°56'24"E
L24	19.35	N39°22'20"W
L25	86.51	S78°34'14"W
L26	78.89	N11°25'14"W
L27	97.85	N72°51'31"E
L28	48.71	S54°36'22"E
L29	53.13	S09°47'26"E
L30	20.04	S78°34'14"W
L31	20.42	S38°22'20"E
L38	14.06	S56°56'31"E
L41	17.81	N12°37'36"W
L42	54.17	N49°32'37"W
L43	10.00	N40°27'23"E
L44	20.27	N49°32'37"W
L45	7.93	N00°41'41"E
L46	38.32	N40°27'23"E
L47	28.29	S49°32'37"E
L48	108.98	N38°42'19"E
L49	90.80	N00°21'29"W
L50	101.26	S49°32'37"E
L51	16.54	N87°08'03"E
L52	86.01	S49°32'37"E
L53	45.75	N87°08'03"E
L54	25.48	S02°51'57"E
L55	81.16	S57°20'11"E
L56	10.00	N34°21'04"E
L57	10.00	S55°38'56"E
L58	10.00	S34°21'04"W

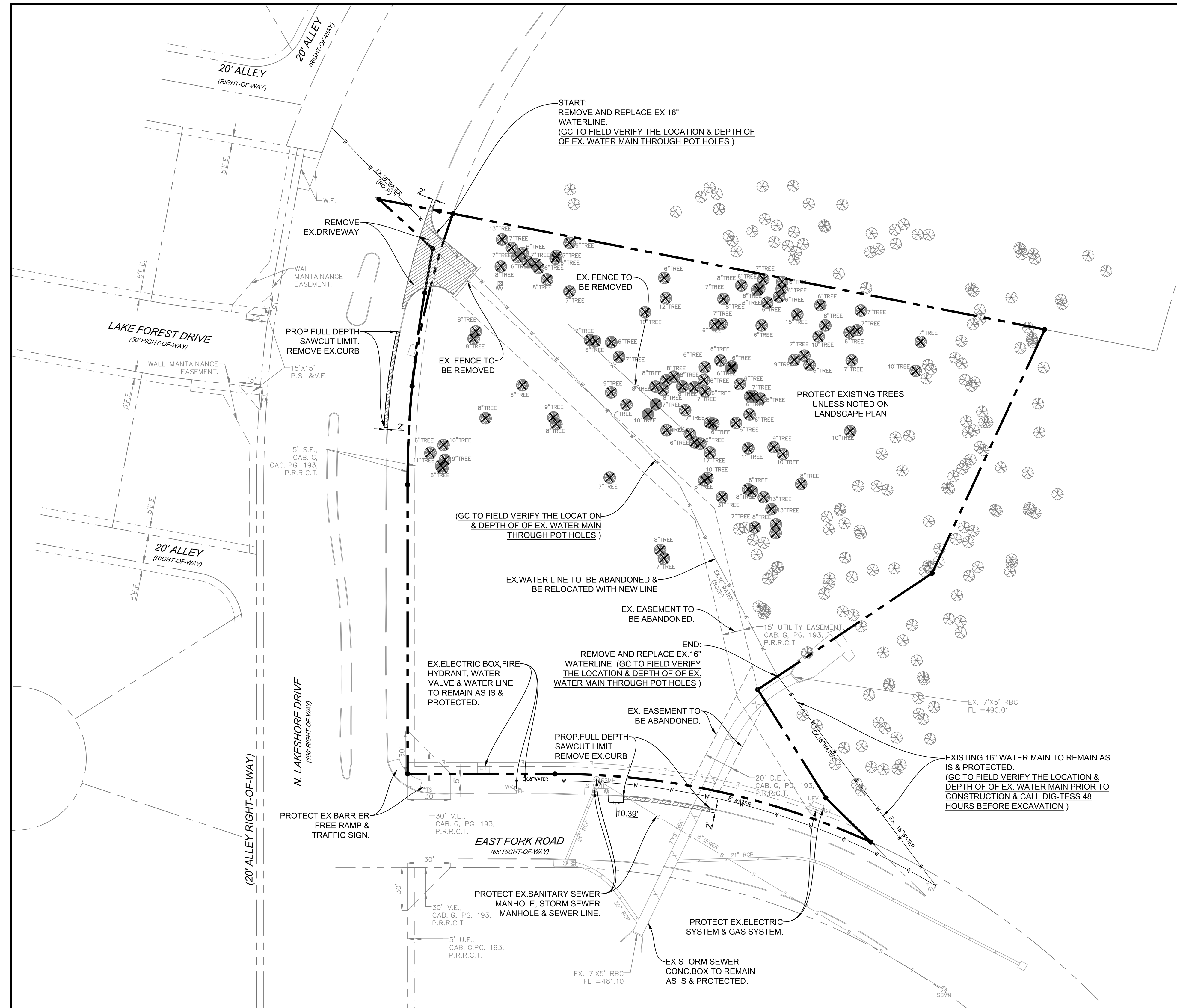
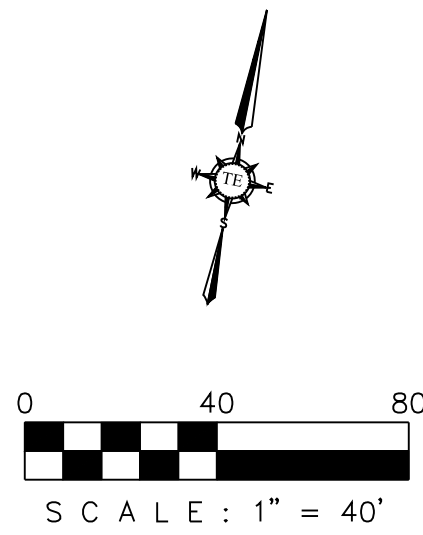
CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	CH. BEAR.	CHORD
C1	46°40'40"	20.00	16.29	N26°12'17"W	15.85
C2	46°40'40"	44.00	35.85	N26°12'17"W	34.86
C3	17°51'46"	20.00	6.24	S11°47'50"E	6.21
C4	16°36'43"	20.00	5.80	N05°26'24"E	5.78
C5	22°50'38"	101.18	40.34	S29°20'54"W	40.07
C6	18°48'08"	76.18	25.00	S27°53'41"W	24.89
C7	45°30'58"	20.00	15.89	N72°18'06"W	15.47
C8	16°32'53"	19.50	5.63	S76°39'58"W	5.61
C9	45°30'58"	44.00	34.85	N26°12'17"W	34.04
C10	20°53'47"	20.01	7.30	S84°36'00"E	7.26
C12	2°29'32"	532.50	23.16	S80°54'40"W	23.16
C13	12°56'03"	550.00	124.16	S01°51'37"W	123.90
C14	1°00'10"	550.00	9.63	S07°49'34"W	9.63

LOT 18, BLOCK O
 THE PRESERVE PHASE 2,
 CAB. G. PG. 193,
 P.R.R.C.T.
 OPEN SPACE
 AND DRAINAGE
 EASEMENT

KIDDIE ACADEMY SITE DEVELOPMENT

2.960 ACRES OF LAND BEING A REPLAT OF LOT 1, BLOCK S OF THE PRESERVE PHASE 3, AN ADDITION TO THE CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS



DEMOLITION GENERAL NOTES

- CONSTRUCTION SHALL PROCEED IN THE FOLLOWING MANNER:
1. INITIAL SITE STRIPPING, DEMOLITION AND HAUL DEBRIS OFFSITE.
 2. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
 3. PREPARE TEMPORARY PARKING AND STORAGE AREA.
 4. CONSTRUCT THE SILT FENCES ON THE SITE.
 5. BEGIN GRADING THE SITE.
 6. INSTALL/CONSTRUCT MAJOR DRAINAGE SYSTEM.
 7. INSTALL UTILITIES, UNDER DRAINS, CURBS, AND GUTTERS.
 8. START CONSTRUCTION OF BUILDING PADS AND STRUCTURES.
 9. TEMPORARILY SEED DENUDED AREAS.
 10. PREPARE SITE FOR PAVING.
 11. PAVE SITE.
 12. COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND PLANTING.
 13. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED). THIS SITE IS STABILIZED WHEN ALL SOIL-DISTURBING ACTIVITIES ARE COMPLETED AND UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70% OF THE COVER FOR UNPAVED AREAS AND AREAS NOT COVERED BY PERMANENT STRUCTURES HAVE BEEN EMPLOYED.

NOTE: EROSION CONTROL BMP'S SHALL BE IN PLACE PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES INCLUDING DEMOLITION.

LEGENDS	
	DEMOLITION AREA
	TREES TO REMAIN
	TREES TO BE REMOVED REFERENCE L1 FOR DETAILS FROM LANDSCAPE PLANS

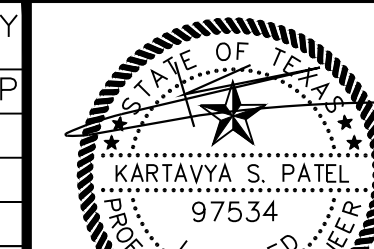
NOTE

1. ADJUST EXISTING SEWER MANHOLE TO NEW CITY STANDARD. MINIMUM 30" DIA. OPENING.

AS-BUILT DRAWINGS:
TO THE BEST OF OUR KNOWLEDGE TRIANGLE ENGINEERING LLC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

KARTAVYA S. PATEL, P.E. NO. 97534

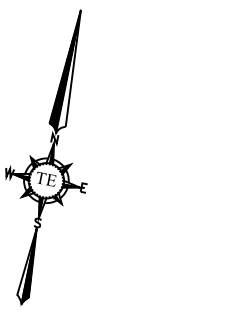
NO.	DATE	DESCRIPTION	BY
1	12/03/2019	AS-BUILT RECORD DRAWINGS	KP



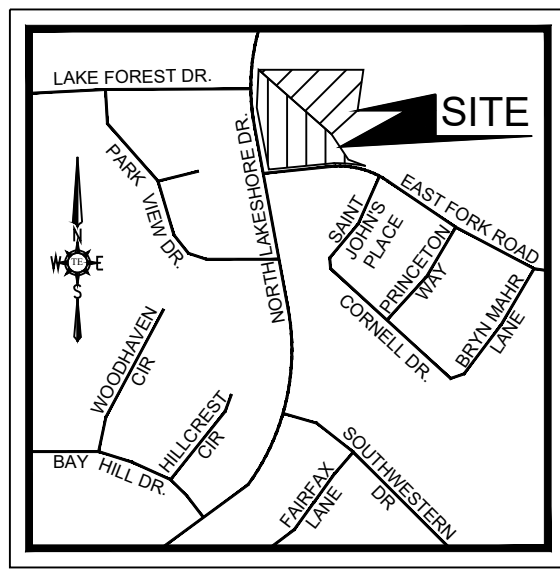
12/03/2019

RECORD DRAWING

DEMOLITION PLAN			
KIDDIE ACADEMY			
NEC OF N. LAKESHORE DRIVE & E. FORK ROAD			
CITY OF ROCKWALL			
ROCKWALL COUNTY, TEXAS			
T: 214.609.9271 F: 469.359.6709 E: kpatel@triangle-engr.com W: triangle-engr.com O: 1784 W. McDermott Drive, Suite 110, Allen, TX 75013			
Planning Civil Engineering Construction Management			
DESIGN/DRAWN	DATE	SCALE	PROJECT NO.
KP	DS	08/23/16	028-16
TX PE FIRM #11525			DM



0 40 80
SCALE: 1" = 40'



VICINITY MAP
NTS

LEGEND	
UTILITY EASEMENT	U.E.
SANITARY SEWER EASEMENT	S.S.E.
DETENTION & DRAINAGE EASEMENT	D.D.E.
WATERLINE EASEMENT	W.E.
VISIBILITY EASEMENT	V.E.
SIDEWALK EASEMENT	S.E.
ELECTRICAL EASEMENT	E.E.
CLEAN OUT	C.O.
GAS METER	GM
ELECTRICAL VAULT	EV
LIGHT POLE	LP
TRAFFIC SIGN	TS
ELECTRICAL TRANSFORMER	ET
FIRE HYDRANT	FH
SANITARY SEWER MANHOLE	SSMH
STORM SEWER MANHOLE	STMMH
BUILDING SET BACK	B.S.
LANDSCAPE BUFFER	L.B.
PRESSURE REDUCING VALVE	PRV
FIRE DEPARTMENT CONNECTION	F.D.C.
SCREENING WALL & LANDSCAPE EASEMENT	S.W.L.E.
BARRIER FREE RAMP	BFR
VISIBILITY EASEMENT	V.E.
VISIBILITY CLIP	

LEGEND	
	PROPERTY LINE
	EXISTING WATER LINE
	PROPOSED WATER LINE
	EX. SANITARY SEWER LINE
	PROP. SANITARY SEWER LINE
	PROPOSED STORM SEWER
	PROPOSED FIRE HYDRANT
	PROPOSED FIRE CONNECTION
	PROPOSED WATER METERS
	PROPOSED BACK FLOW PREVENTER
	PEDESTRIAN SIGN & VISIBILITY EASEMENT
	UTILITY EASEMENT
	WATER EASEMENT
	SANITARY SEWER EASEMENT
	DRAINAGE EASEMENT
	FIRE LANE, PUBLIC ACCESS & WATER EASEMENT
	VISIBILITY EASEMENT
	PROPOSED FIRE LANE
	FRONT SET BACK
	LANDSCAPE SET BACK
	BARRIER FREE RAMP
	EXISTING STORM SEWER
	EXISTING PAVEMENT/CURB
	EXISTING SEWER MANHOLE
	PROPOSED HANDICAP PARKING SPACE
	EXISTING POWER POLE
	EXISTING STORM INLETS
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	PROPOSED BOLLARDS
	PROPOSED CAR STACKING
	PROP. 6' HIGH WROUGHT IRON FENCE
	EXISTING TREE
	TRANSFORMER
	FIRE LANE, PUBLIC ACCESS & UTILITY EASEMENT
	GREASE TRAP
	SAMPLING WELL
	SINGLE CLEAN OUT
	DOUBLE CLEAN OUT
	MONUMENT/POLE SIGN
	PROPOSED WHEEL STOP
	PROPOSED HANDICAP SIGN

SITE DATA SUMMARY TABLE		
PHYSICAL ADDRESS	TO BE DETERMINED	
GROSS SITE AREA	2.960 ACRES (128,943 S.F.)	
R.O.W. DEDICATION	0.023 ACRES (981 S.F.)	
NET AREA	2,937 ACRES (127,962 S.F.)	
ZONING	PD-41	
CURRENT USE	VACANT	
PROPOSED USE	DAYCARE	
LOT COVERAGE DATA		
DAYCARE COVERAGE	10,005 S.F. (7.75%)	
OFFICE COVERAGE	6,000 S.F. (4.65%)	
TOTAL BLDG AREA	16,005 S.F. (12.40%)	
IMPERVIOUS COVERAGE	49,465 S.F. (38.65%)	
PERVIOUS COVERAGE	78,497 S.F. (61.35%)	
PARKING SUMMARY		
PARKING REQUIREMENT	REQUIRED	PROVIDED
1 SPACE PER 300 GFA	54	55
TOTAL PARKING	54	55
BUILDING DATA		
BUILDING	2	
PEAK HEIGHT	29'-0"	
TOTAL SQUARE FOOTAGE	16,005 S.F.	

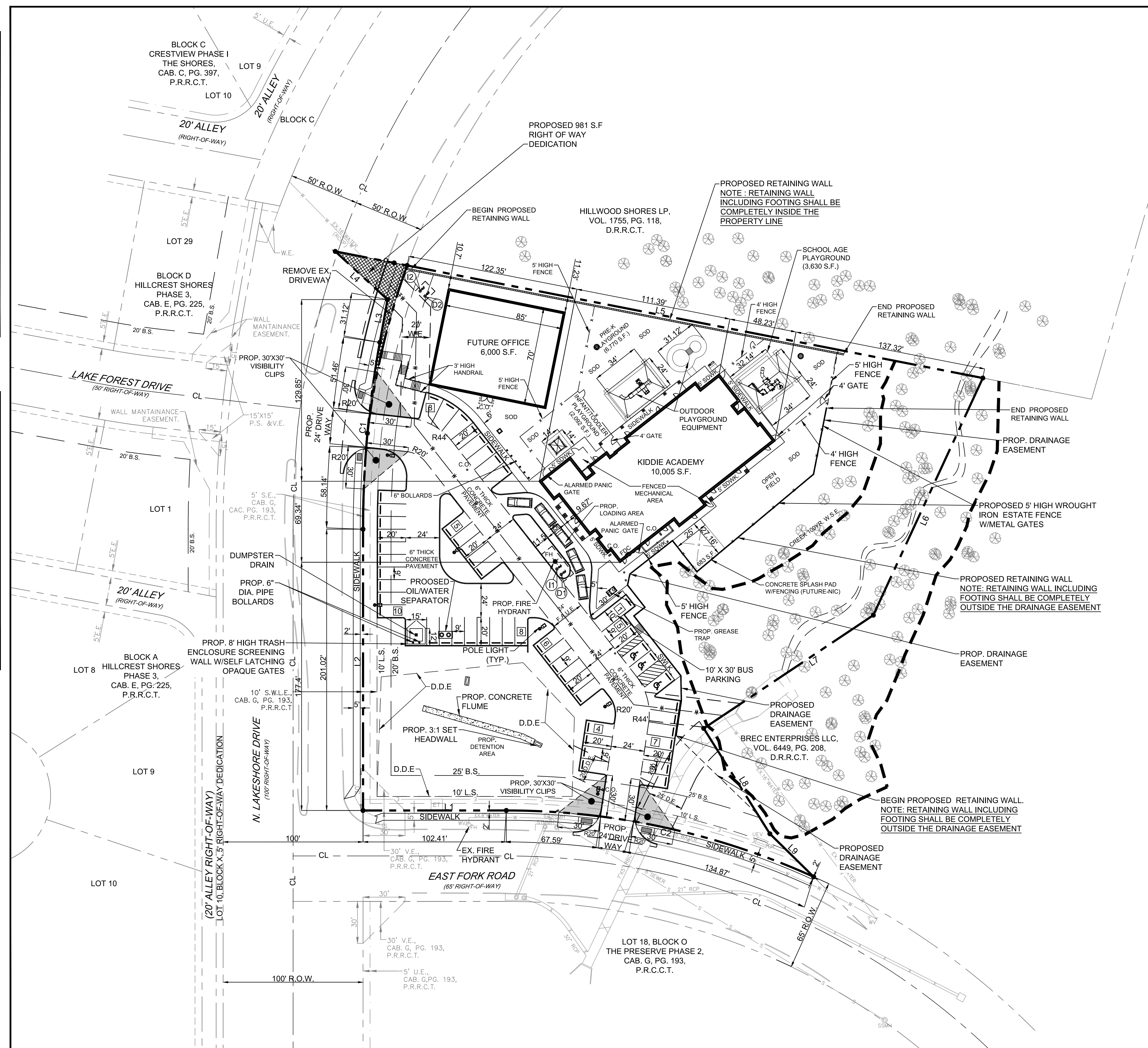
DETENTION NOTE
1. ONSITE DETENTION WILL BE PROVIDED.

WATER METER & SANITARY SEWER SCHEDULE				
ID	TYPE	SIZE	NO.	SAN. SEW.
D1	DOM.	1 1/2"	1	6"
I1	IRR.	1"	1	
D2	DOM.	1"	1	
I2	IRR.	1"	1	

BOUNDARY LINE DATA		
LINE NO.	BEARING	DISTANCE
L1	S 78°34'14" W	102.41'
L2	N 11°25'13" W	201.02'
L3	N 01°10'03" W	31.12'
L4	N 58°45'59" W	50.79'
L5	S 89°38'31" E	471.62'
L6	S 13°21'59" W	186.68'
L7	S 44°51'38" W	145.74'
L8	S 43°32'33" E	88.95'
L9	S 56°56'31" E	43.84'

CURVE DATA TABLE					
NO.	LENGTH	RADIUS	DELTA	CH BEARING	CH LENGTH
C1	134.21'	750.00'	10°15'10"	N 06°17'38" W	134.03'
C2	226.46'	532.50'	24°21'59"	N 89°14'47" W	224.76'

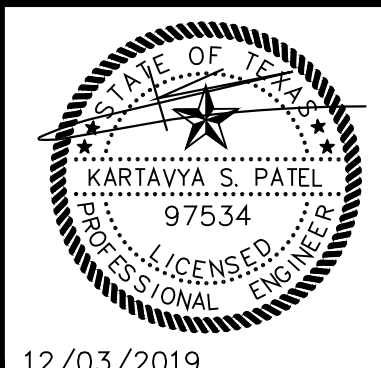
OWNER/DEVELOPER DUNKIN ACADEMY ROCKWALL LLC 320 N TOWN EAST BLVD SUNNYVALE, TEXAS 75182 CONTACT: JOHN DUNKIN TEL: (469) 358-5590	ENGINEER TRIANGLE ENGINEERING LLC 1784 W. McDERMOTT DR. SUITE 110 ALLEN, TEXAS 75013 CONTACT: KARTAVYA PATEL TEL: (214) 609-9271	SURVEYOR A&W SURVEYORS INC. P.O. BOX 870029 MESQUITE, TEXAS 75157 CONTACT: JOHN TURNER, R.P.L.S. TEL: (972) 881-4975	ARCHITECT GARY WOOD ARCHITECTS 4606 PARK SPRINGS BLVD. SUITE 110 ARLINGTON, TEXAS 76017 CONTACT: GRAY WOOD TEL: (817) 975-9767
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AS-BUILT DRAWINGS:
TO THE BEST OF OUR KNOWLEDGE TRIANGLE ENGINEERING LLC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

KARTAVYA S. PATEL, P.E. NO. 97534

NO.	DATE	DESCRIPTION	BY
1	12/03/2019	AS-BUILT RECORD DRAWINGS	KP



- GENERAL NOTES**
- ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE STANDARDS OF THE CITY OF ROCKWALL.
 - A PERMIT IS REQUIRED TO CUT A CITY STREET OR WORK WITHIN THE RIGHT-OF-WAY. THE PERMIT IS ISSUED BY THE PUBLIC WORKS DEPARTMENT.
 - THE LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS IS TAKEN FROM PUBLIC RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS WITH THE OWNERS OF SUCH UNDERGROUND UTILITIES PRIOR TO WORKING IN THE AREA TO CONFIRM THEIR EXACT LOCATION AND TO DETERMINE WHETHER ANY ADDITIONAL UTILITIES OTHER THAN THOSE SHOWN ON THE PLANS MAY BE PRESENT. THE CONTRACTOR SHALL PRESERVE AND PROTECT ALL UNDERGROUND UTILITIES. IF EXISTING UNDERGROUND UTILITIES ARE DAMAGED, THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPAIRING THE UTILITY.
 - WHERE EXISTING UTILITIES OR SERVICE LINES ARE CUT, BROKEN OR DAMAGED, THE CONTRACTOR SHALL REPLACE OR REPAIR THE UTILITIES OR SERVICE LINES WITH THE SAME TYPE OF ORIGINAL MATERIAL AND CONSTRUCTION, OR BETTER, UNLESS OTHERWISE SHOWN OR NOTED ON THE PLANS. AT HIS OWN COST AND EXPENSE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICTS IN GRADES AND ALIGNMENT.
 - ALL EXCAVATIONS, TRENCHING AND SHORING OPERATIONS SHALL COMPLY WITH THE REQUIREMENTS OF THE U. S. DEPARTMENT OF LABOR, OSHA, "CONST. SAFETY AND HEALTH REGULATIONS," VOL. 29, SUBPART P. PG. 128 - 137, AND ANY AMENDMENTS THERETO.
 - ADEQUATE MEASURES SHALL BE TAKEN TO PREVENT EROSION. IN THE EVENT THAT SIGNIFICANT EROSION OCCURS AS A RESULT OF CONSTRUCTION THE CONTRACTOR SHALL RESTORE THE ERODED AREA TO ORIGINAL CONDITION OR BETTER.
 - THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO ORIGINAL CONDITION OR BETTER. RESTORED AREAS INCLUDE, BUT ARE NOT LIMITED TO TRENCH BACKFILL, SIDE SLOPES, FENCES, CULVERT PIPES, DRAINAGE DITCHES, DRIVEWAYS, PRIVATE YARDS AND ROADWAYS.
 - ANY CHANGES NEEDED AFTER CONSTRUCTION PLANS HAVE BEEN RELEASED, SHALL BE APPROVED BY THE CITY ENGINEER. THESE CHANGES MUST BE RECEIVED IN WRITING FROM THE DESIGN ENGINEER. THE DIRECTOR OF PUBLIC WORKS SHALL APPROVE ANY DEVIATIONS FROM STATE REGULATIONS.
 - THE CONTRACTOR SHALL PROVIDE "RED LINED" MARKED PRINTS TO THE ENGINEER PRIOR TO FINAL INSPECTION INDICATING ALL CONSTRUCTION WHICH DEVIATED FROM THE PLANS OR WAS CONSTRUCTED IN ADDITION TO THAT INDICATED ON THE PLANS.

**CASE # SP2017-014
RECORD DRAWING**

REDESIGNED SITE PLAN
KIDDIE ACADEMY
NEC OF N. LAKESHORE DRIVE & E. FORK ROAD
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

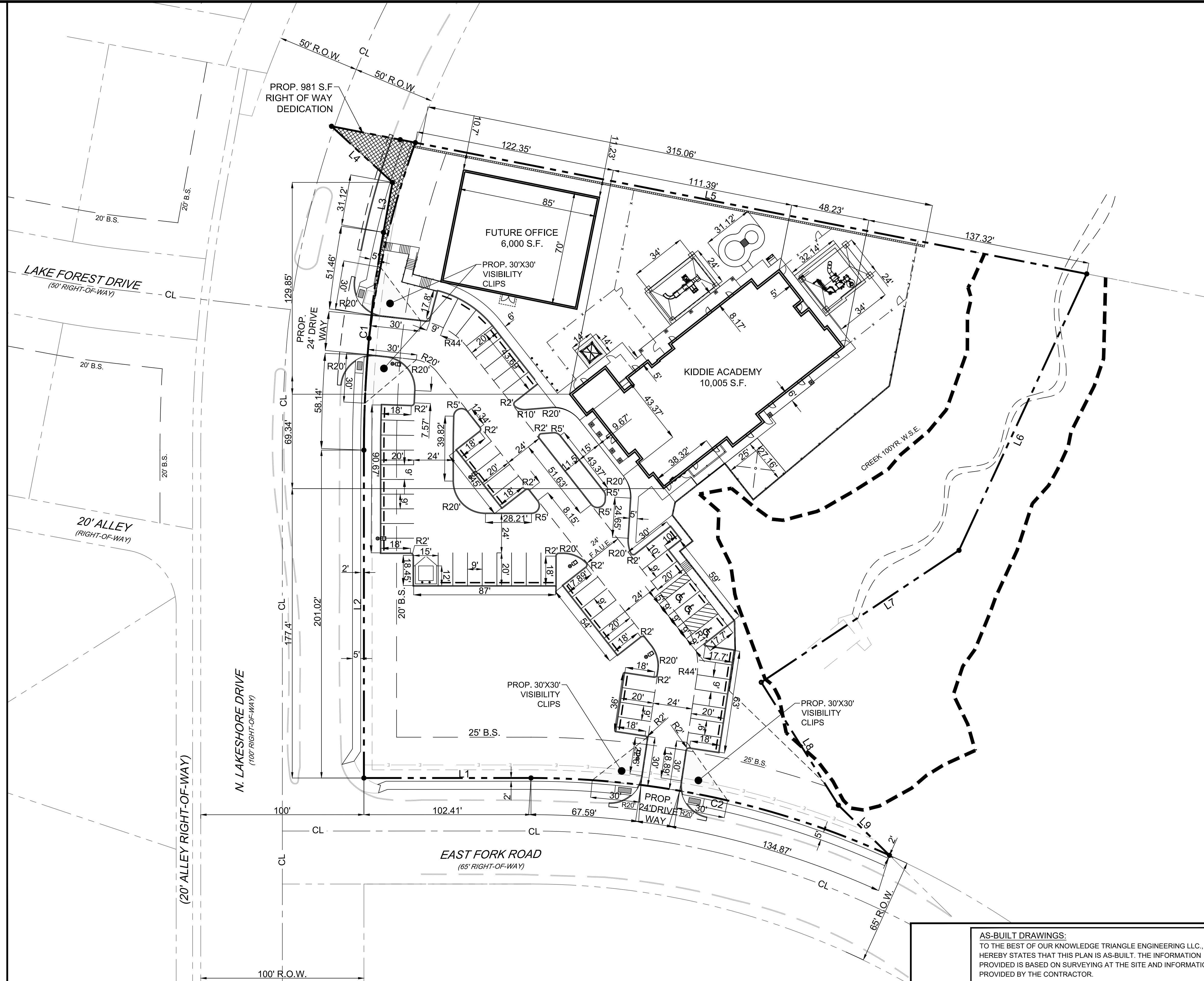
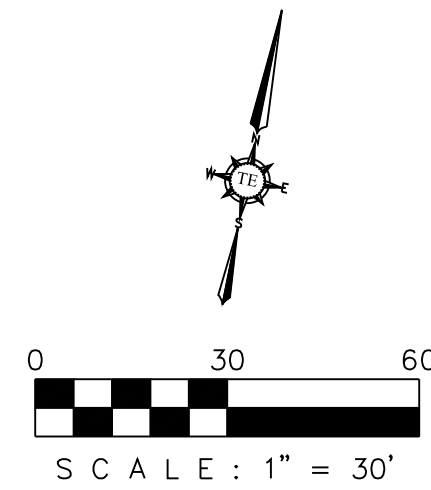
TRIANGLE ENGINEERING LLC
T: 214.609.9271 F: 469.358.6709 E: kpatel@triangle-engr.com
W: triangle-engr.com I: 1784 W. McDermott Drive, Suite 110, Allen, TX 75013

Planning | Civil Engineering | Construction Management

DESIGN/DRAWN	DATE	SCALE	PROJECT NO.	SHEET NO.
KP DS	08/23/16	SEE SCALE BAR	028-16	3

TX PE FIRM #11525

12/03/2019



- DIMENSION GENERAL NOTES:**
1. ALL DIMENSIONS ARE MEASURED TO FACE OF CURB AS SHOWN. CONTACT ENGINEER/ARCHITECT IF THERE IS ANY DISCREPANCIES IN THE DIMENSION.
 2. REFER TO ARCHITECTURAL FLOOR PLAN FOR EXACT BUILDING DIMENSIONS.
 3. POLE/MONUMENT SIGN SHALL BE BY SEPARATE PERMIT.

LEGEND

PUBLIC UTILITY EASEMENT	P.U.E.
SANITARY SEWER EASEMENT	S.E.
DETENTION & DRAINAGE EASEMENT	D.D.E.
WATERLINE EASEMENT	W.E.
CLEAN OUT	C.O.
GAS METER	GM
ELECTRICAL TRANSFORMER	ET
FIRE HYDRANT	FH
SANITARY SEWER MANHOLE	SSMH
STORM SEWER MANHOLE	STMMH
BUILDING SET BACK	B.S.
LANDSCAPE SETBACK	L.S.B.
PRESSURE REDUCING VALVE	PRV
24' FIRE LANE	F.L.
FIRE DEPARTMENT CONNECTION	F.D.C.
VISIBILITY CLIP	

BOUNDARY LINE DATA

LINE NO.	BEARING	DISTANCE
L1	S 78°34'14" W	102.41'
L2	N 11°25'13" W	201.02'
L3	N 01°10'03" W	31.12'
L4	N 58°45'59" W	50.79'
L5	S 89°38'31" E	471.62'
L6	S 13°21'59" W	186.68'
L7	S 44°51'38" W	145.74'
L8	S 43°32'33" E	88.95'
L9	S 56°56'31" E	43.84'

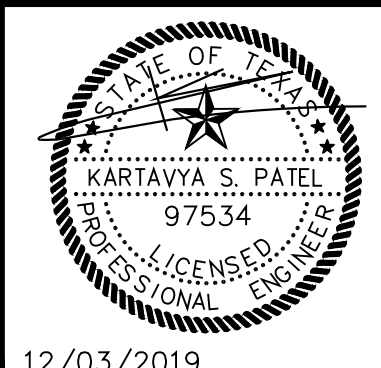
CURVE DATA TABLE

NO.	LENGTH	RADIUS	DELTA	CH BEARING	CH LENGTH
C1	134.21'	750.00'	10°15'10"	N 06°17'38" W	134.03'
C2	226.46'	532.50'	24°21'59"	N 89°14'47" W	224.76'

AS-BUILT DRAWINGS:
 TO THE BEST OF OUR KNOWLEDGE TRIANGLE ENGINEERING LLC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

KARTAVYA S. PATEL, P.E. NO. 97534

NO.	DATE	DESCRIPTION	BY
1	12/03/2019	AS-BUILT RECORD DRAWINGS	KP



RECORD DRAWING

DIMENSION CONTROL PLAN
 KIDDIE ACADEMY
 NEC OF N. LAKESHORE DRIVE & E. FORK ROAD
 CITY OF ROCKWALL
 ROCKWALL COUNTY, TEXAS



T: 214.609.9271 | F: 469.359.6709 | E: kpatel@triangle-engr.com
 W: triangle-engr.com | O: 1784 W. McDermott Drive, Suite 110, Allen, TX 75013

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DESIGN/DRAWN	DATE	SCALE	PROJECT NO.	SHEET NO.
KP DS	08/23/16	SEE SCALE BAR	028-16	4

TX PE FIRM #11525



ODA-2 = 0.31 AC
 Tc = 10 MIN
 C = 0.35
 I100 = 9.80
 Q100 = 0.310X0.35X9.80 = 1.06 CFS

ODA-1 = 0.70 AC
 Tc = 10 MIN
 C = 0.35
 I100 = 9.80
 Q100 = 0.70X0.35X9.80 = 2.40 CFS
 REFER SECTION D-D & E-E FOR WSE AND FREE BOARD CALCULATIONS

OUTSIDE GRADE (OG) OF THE PROPOSED WALL IS 0.5' BELOW THE TOP OF WALL (TW) ELEVATION ALONG THE ENTIRE LENGTH OF WALL SO THE OUTSIDE GRADE ITSELF ACTS AS A SWALE ALONG THE DIRECTION OF DECREASING CONTOUR. REFER SECTION C-C AND D-D FOR DETAILS

BUILDING WALL TO BE DESIGNED AS RETAINING WALL

BUILDING WALL TO BE DESIGNED AS RETAINING WALL

F.F.E. = 508.00

F.F.E. = 505.75

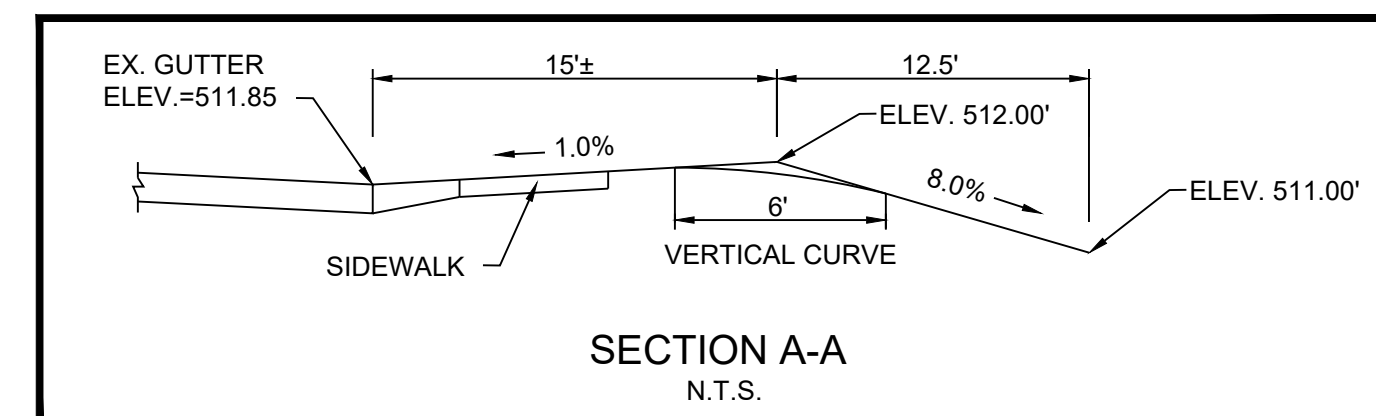
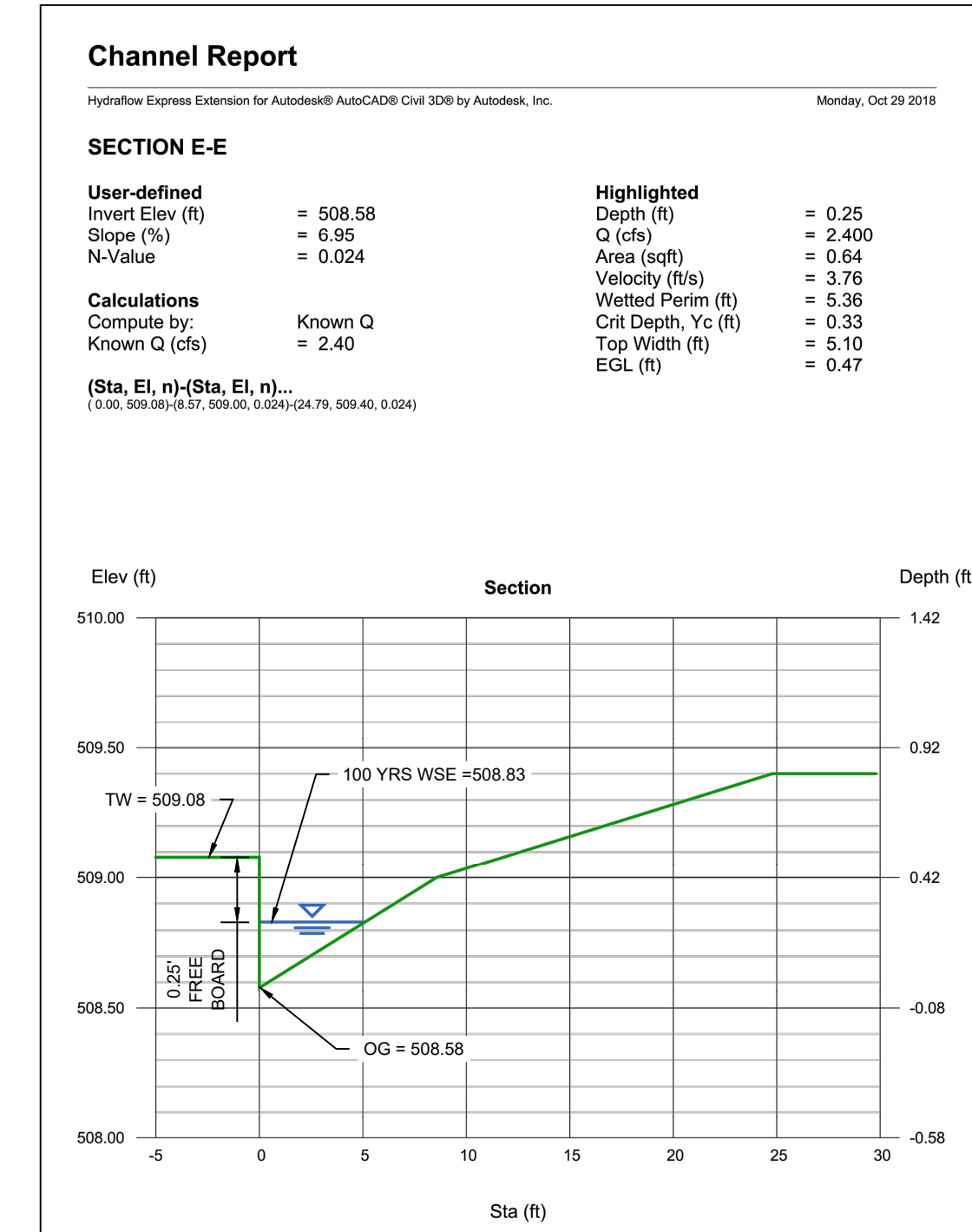
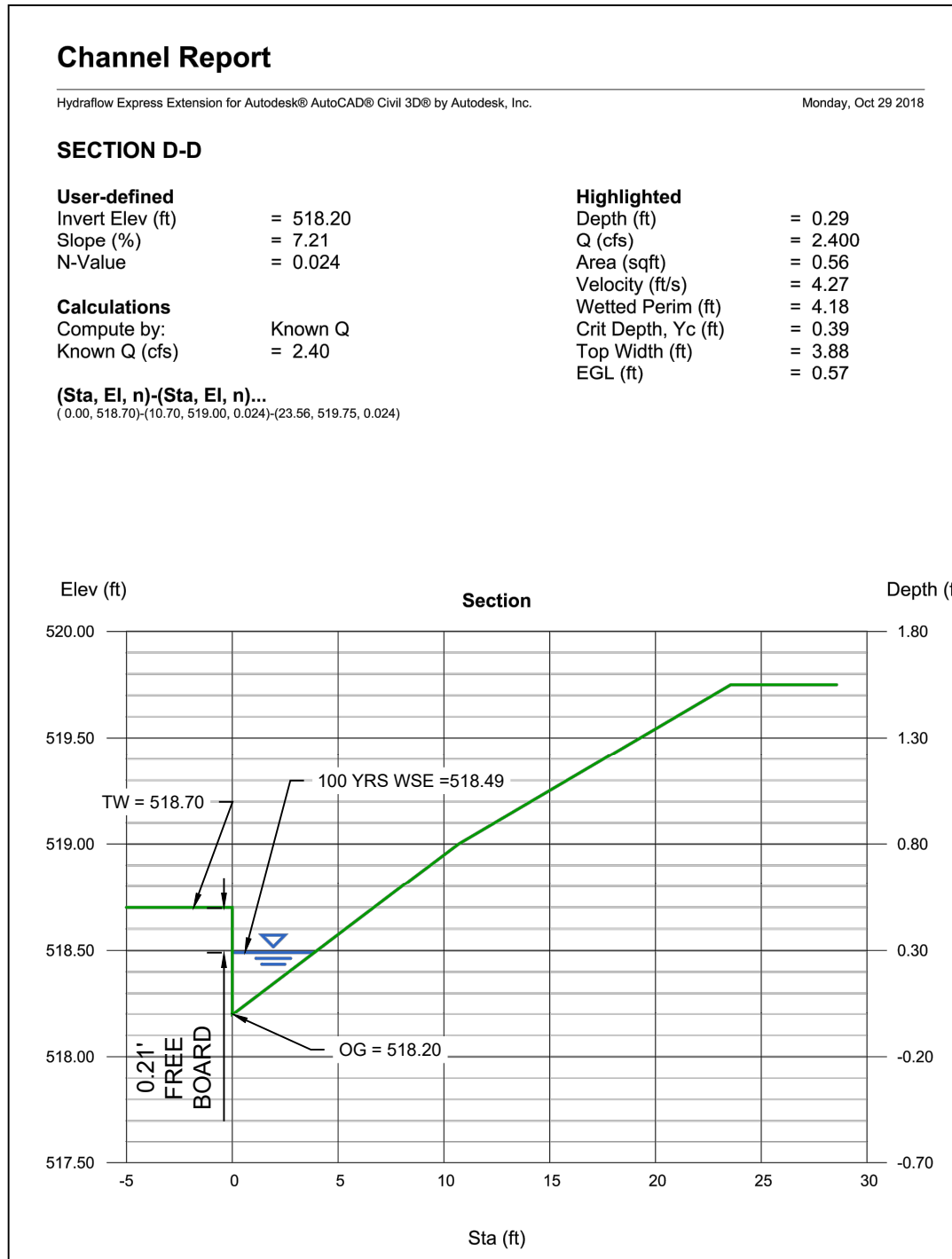
CREEK 100YR W.S.E.

GRADING GENERAL NOTE

- ALL SURPLUS EXCAVATION AND WASTE MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND IT SHALL BE HIS SOLE RESPONSIBILITY TO REMOVE SUCH SURPLUS EXCAVATION AND WASTE MATERIAL FROM THE SITE TO A PUBLIC DUMP SITE APPROVED FOR THE DISPOSAL OF SUCH MATERIALS. IF SURPLUS EXCAVATION IS REMOVED FROM THIS SITE TO ANOTHER PROPERTY, IT SHALL BE PLACED ON SUCH PROPERTY WITH THE WRITTEN CONSENT OF THE OWNER(S) OF SUCH PROPERTY. A COPY OF SUCH WRITTEN CONSENT SHALL BE PROVIDED TO THE OWNER. IF THE CONTRACTOR WISHES TO DISPOSE OF SURPLUS EXCAVATION ON-SITE, IT SHALL BE ONLY WITH THE PRIOR APPROVAL OF THE OWNERS PROJECT REPRESENTATIVE AND CARE SHOULD BE TAKEN TO AVOID BLOCKING NATURAL DRAINAGE AND INCREASING STEEP SLOPES. IF ANY OF THE HAULED EXCAVATION MATERIAL IS TAKEN TO ANOTHER LOCATION WITHIN THE CITY OF ROCKWALL LIMITS, THE OWNER OF THE PROPERTY IS REQUIRED TO OBTAIN A LOT GRADING PERMIT BEFORE MATERIAL IS DELIVERED.
- THE CONTRACTOR IS REQUIRED TO PROVIDE HIS OWN STAKING AND TO VERIFY PROJECT ELEVATIONS. "MATCH EXISTING" SHALL BE UNDERSTOOD TO APPLY TO BOTH VERTICAL ELEVATION AND HORIZONTAL ALIGNMENT.
- THE CONTRACTOR SHALL PREPARE ALL LANDSCAPE AREAS INCLUDING STREET RIGHT-OF-WAY AREAS TO AN ACCEPTABLE SUBGRADE CONDITION IN ACCORDANCE WITH THE LANDSCAPE PLANS. IF THE CONTRACTOR IS NOT EMPLOYED TO PROVIDE AND INSTALL LANDSCAPING, HE SHALL PREPARE A FINISHED AND COMPACTED SUBGRADE IN THE LANDSCAPING AREAS 4" BELOW NOMINAL FINISH GRADE AS SHOWN ON THE PLANS AND SHALL ADD 2" OF TOPSOIL TO BRING LANDSCAPING SUB-GRADE AS PROVIDED TO THE LANDSCAPING CONTRACTOR, TO 2" BELOW NOMINAL FINISH GRADE.
- NO SLOPES TO EXCEED 4H:1V WITHOUT SLOPE STABILIZATION.
- ALL FILL TO BE COMPACTED TO A MINIMUM 95% OF STANDARD DENSITY USING A SHEEP'S FOOT ROLLER.
- CONTRACTOR TO ADJUST TO PROPOSED AND EXISTING UTILITIES TO FINISHED GRADE.
- THE DETENTION SYSTEM TO BE FULLY INSTALLED AND FUNCTIONAL PRIOR TO ANY PLACEMENT OF CONCRETE INCLUDING SLABS. THIS INCLUDES THE SIDES AND BOTTOM TO HAVE EITHER SODD OR SEEDS ANCHORED CURLEX ALONG WITH THE CONCRETE FULME.

BENCHMARK

SQUARE-CUT ON TOP OF CURB. @ E. FORK ROAD. ELEVATION = 495.40'



LEGEND

SPOT ELEVATION AT FINISHED GRADE	SS03.80
TOP OF CURB	TC504.14
GUTTER ELEVATION	G 503.65
TOP OF THE WALL	TW 518.65
INSIDE GRADE	IG 505.90
OUTSIDE GRADE	OG 518.15
EX. SPOT ELEVATION AT GRADE	XS501.00
EXISTING CONTOURS	---506---
PROPOSED CONTOURS	---502---
PROPOSED SWALE	---
PROPOSED DETENTION & DRAINAGE EASEMENT	D.D.E.
PROPOSED VISIBILITY CLIP	---

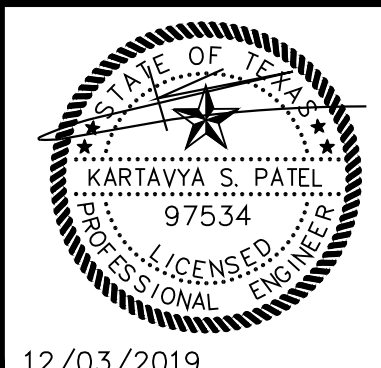
NOTE:
 PROPOSED RETAINING WALL INCLUDING FOOTING TO BE COMPLETELY OUTSIDE THE PROP. DRAINAGE EASEMENT

NOTE:
 REFER ARCH. / STRUCTURAL PLANS FOR FUTURE OFFICE BUILDING WALLS TO BE DESIGNED AS RETAINING WALL

AS-BUILT DRAWINGS:
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KARTAVYA S. PATEL, P.E. NO. 97534

NO.	DATE	DESCRIPTION	BY
1	12/03/2019	AS-BUILT RECORD DRAWINGS	KP



RECORD DRAWING

GRADING PLAN
KIDDIE ACADEMY
 NEC OF N. LAKESHORE DRIVE & E. FORK ROAD
 CITY OF ROCKWALL
 ROCKWALL COUNTY, TEXAS

T: 214.609.9271 | F: 469.359.6709 | E: kpatel@triangle-engr.com
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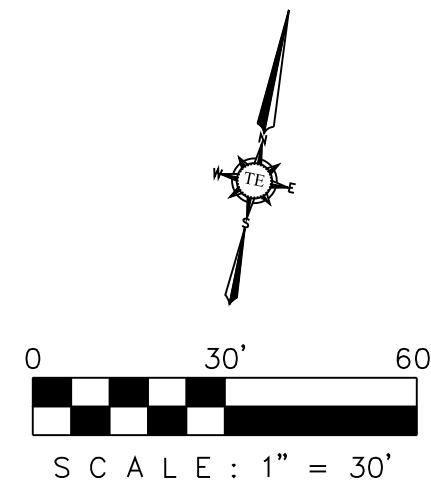
Planning | Civil Engineering | Construction Management

DESIGN/DRAWN	DATE	SCALE	PROJECT NO.	SHEET NO.
KP	DS	08/23/16	SEE SCALE BAR	028-16

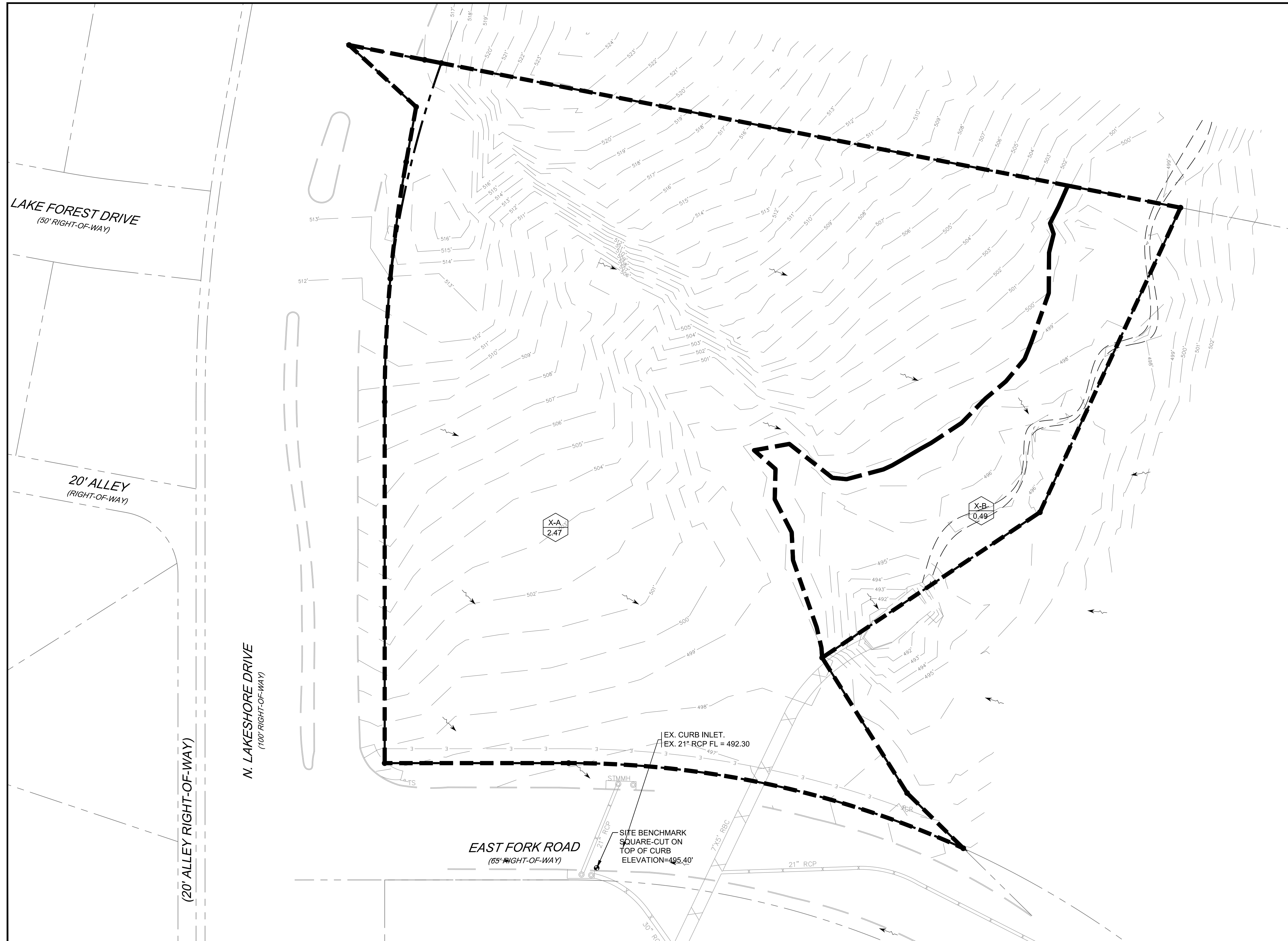
TX PE FIRM #11525

KIDDIE ACADEMY SITE DEVELOPMENT

2.960 ACRES OF LAND BEING A REPLAT OF LOT 1, BLOCK S OF THE PRESERVE PHASE 3, AN ADDITION TO THE CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS



BENCHMARK
SQUARE - CUT ON TOP OF CURB AT EAST FORK ROAD.
ELEVATION = 495.40'



DRAINAGE LEGEND

- AREA NO.
AREA ACREAGE
- DRAINAGE DIVIDE
- EXISTING CONTOURS

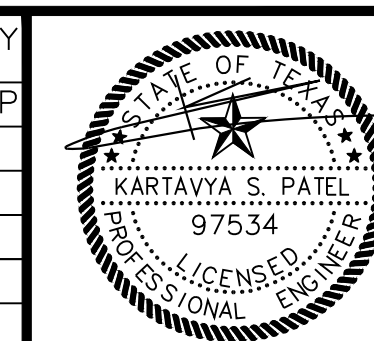
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KARTAVYA S. PATEL, P.E. NO. 97534

PRE-DEVELOPED DRAINAGE CALCULATIONS

Drainage Area	C	Tc (min)	A (acres)	I-5 (in/hr)	I-10 (in/hr)	I-25 (in/hr)	I-50 (in/hr)	I-100 (in/hr)	Q-5yr (cfs)	Q-10yr (cfs)	Q-25yr (cfs)	Q-50yr (cfs)	Q-100yr (cfs)
X-A	0.35	20	2.47	5.00	5.70	6.75	7.50	8.30	4.32	4.93	5.84	6.48	7.18
X-B	0.35	20	0.49	5.00	5.70	6.75	7.50	8.30	0.86	0.98	1.16	1.29	1.42

NO.	DATE	DESCRIPTION	BY
1	12/03/2019	AS-BUILT RECORD DRAWINGS	KP



12/03/2019

RECORD DRAWING

EXISTING DRAINAGE AREA MAP
KIDDIE ACADEMY
NEC OF N. LAKESHORE DRIVE & E. FORK ROAD
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

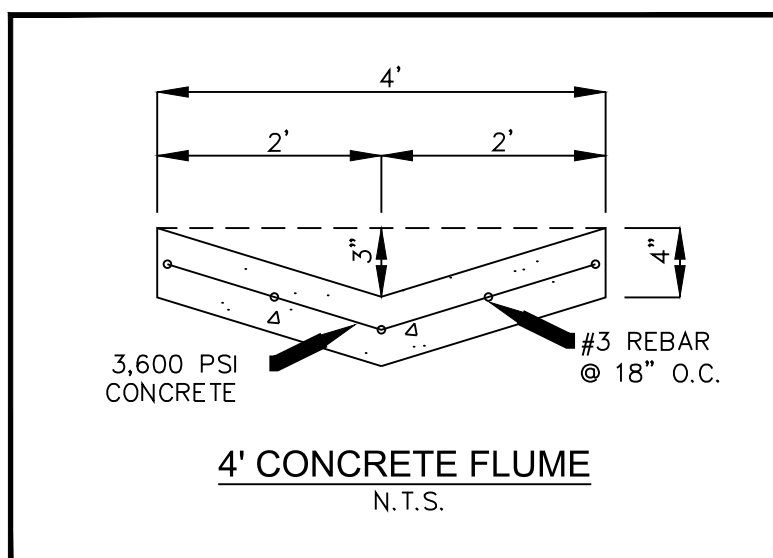
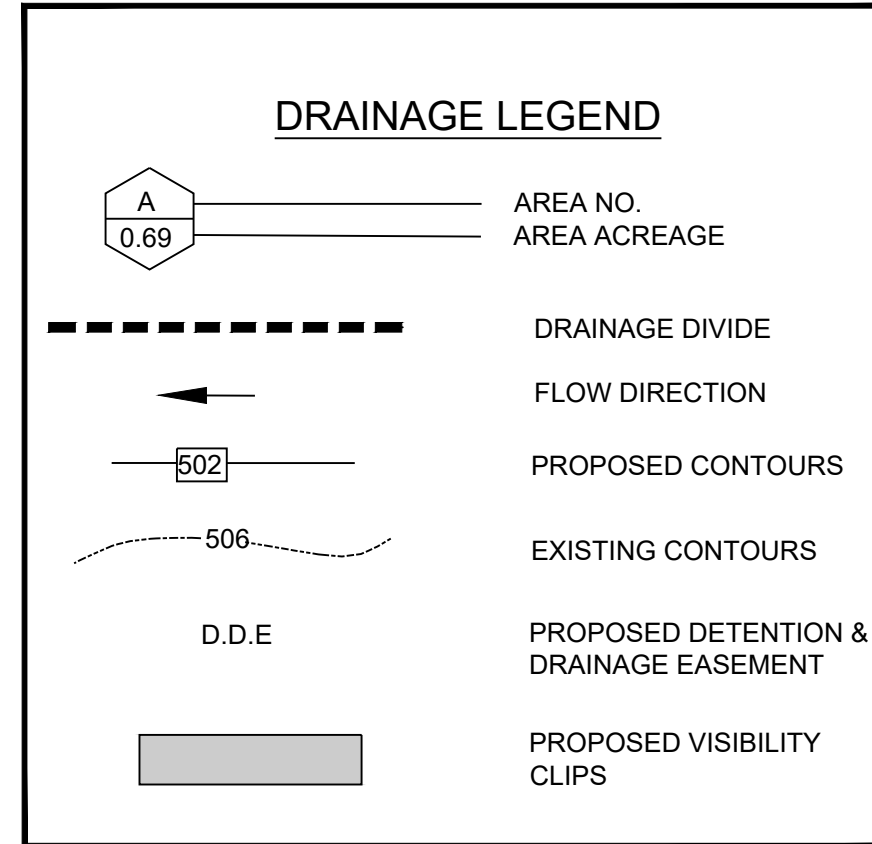
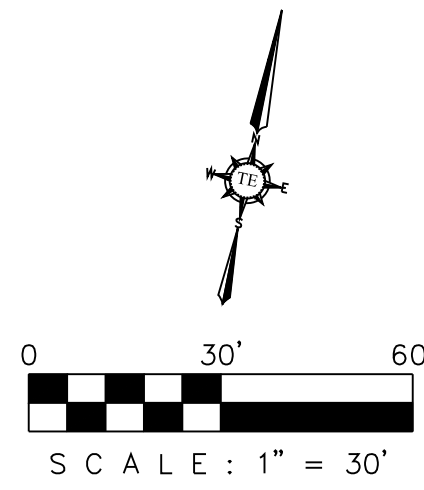


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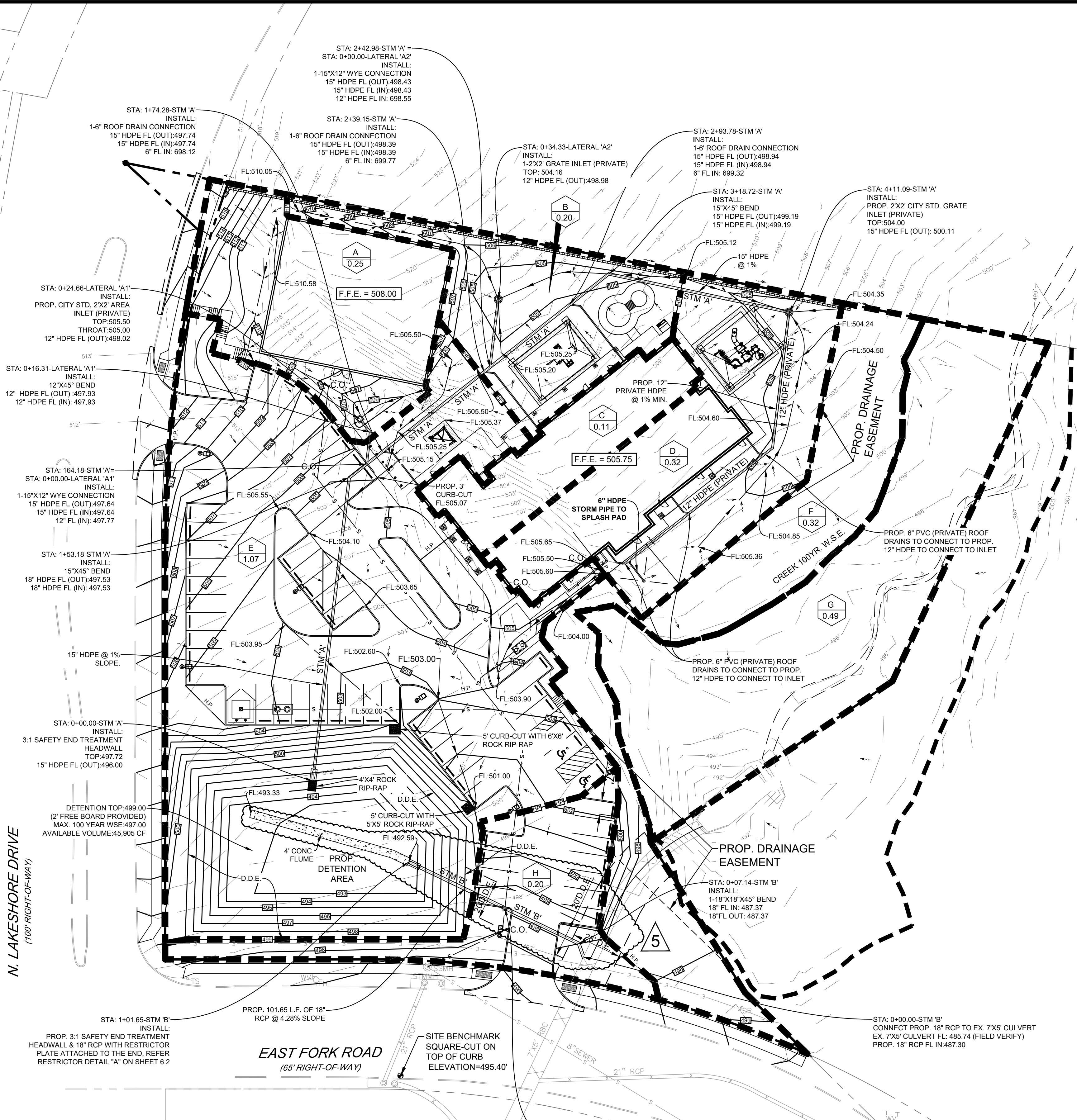
Planning | Civil Engineering | Construction Management

DESIGN/DRAWN	DATE	SCALE	PROJECT NO.	SHEET NO.
KP DS	08/23/16	SEE SCALE BAR	028-16	6

TX PE FIRM #11525



BENCHMARK
 SQUARE-CUT ON TOP OF CURB AT EAST FORK ROAD
 ELEVATION = 495.40'



DEVELOPED DRAINAGE CALCULATION (100 YEAR STORM)

DRAINAGE AREA	C	A	Tc	I-100	Q-100	REMARKS
		(ACRES)	(MINUTES)	(IN/HR)	(CFS)	
A	0.90	0.25	10	9.8	2.21	FLOW TO DETENTION
B	0.90	0.20	10	9.8	1.76	FLOW TO DETENTION
C	0.90	0.11	10	9.8	0.97	FLOW TO DETENTION
D	0.90	0.32	10	9.8	2.82	FLOW TO DETENTION
E	0.90	1.07	10	9.8	9.44	FLOW TO DETENTION
F	0.90	0.32	10	9.8	2.82	BY PASS RUNOFF TO CREEK
G	0.35	0.49	20	8.3	1.42	EX. CREEK / BY PASS RUNOFF
H	0.90	0.20	10	9.8	1.76	BY PASS RUNOFF TO EAST FORK DRIVE

DEVELOPED DRAINAGE CALCULATION (50 YEAR STORM)

DRAINAGE AREA	C	A	Tc	I-100	Q-100	REMARKS
		(ACRES)	(MINUTES)	(IN/HR)	(CFS)	
A	0.90	0.25	10	9.0	2.03	FLOW TO DETENTION
B	0.90	0.20	10	9.0	1.62	FLOW TO DETENTION
C	0.90	0.11	10	9	0.89	FLOW TO DETENTION
D	0.90	0.32	10	9.0	2.59	FLOW TO DETENTION
E	0.90	1.07	10	9.0	8.67	FLOW TO DETENTION
F	0.90	0.32	10	9.0	2.59	BY PASS RUNOFF TO CREEK
G	0.35	0.49	20	7.5	1.29	EX. CREEK / BY PASS RUNOFF
H	0.90	0.20	10	9.0	1.62	BY PASS RUNOFF TO EAST FORK DRIVE

DEVELOPED DRAINAGE CALCULATION (25 YEAR STORM)

DRAINAGE AREA	C	A	Tc	I-100	Q-100	REMARKS
		(ACRES)	(MINUTES)	(IN/HR)	(CFS)	
A	0.90	0.25	10	8.3	1.87	FLOW TO DETENTION
B	0.90	0.20	10	8.3	1.49	FLOW TO DETENTION
C	0.90	0.11	10	8.3	0.82	FLOW TO DETENTION
D	0.90	0.32	10	8.3	2.39	FLOW TO DETENTION
E	0.90	1.07	10	8.3	7.99	FLOW TO DETENTION
F	0.90	0.32	10	8.3	2.39	BY PASS RUNOFF TO CREEK
G	0.35	0.49	20	6.75	1.16	EX. CREEK / BY PASS RUNOFF
H	0.90	0.20	10	8.3	1.49	BY PASS RUNOFF TO EAST FORK DRIVE

DEVELOPED DRAINAGE CALCULATION (10 YEAR STORM)

DRAINAGE AREA	C	A	Tc	I-100	Q-100	REMARKS
		(ACRES)	(MINUTES)	(IN/HR)	(CFS)	
A	0.90	0.25	10	8.0	1.80	FLOW TO DETENTION
B	0.90	0.20	10	8.0	1.44	FLOW TO DETENTION
C	0.90	0.11	10	8.0	0.79	FLOW TO DETENTION
D	0.90	0.32	10	8.0	2.30	FLOW TO DETENTION
E	0.90	1.07	10	8.0	7.70	FLOW TO DETENTION
F	0.90	0.32	10	8.0	2.30	BY PASS RUNOFF TO CREEK
G	0.35	0.49	20	5.7	0.98	EX. CREEK / BY PASS RUNOFF
H	0.90	0.20	10	8.0	1.44	BY PASS RUNOFF TO EAST FORK DRIVE

DEVELOPED DRAINAGE CALCULATION (5 YEAR STORM)

DRAINAGE AREA	C	A	Tc	I-100	Q-100	REMARKS
		(ACRES)	(MINUTES)	(IN/HR)	(CFS)	
A	0.90	0.25	10	6.9	1.55	FLOW TO DETENTION
B	0.90	0.20	10	6.9	1.24	FLOW TO DETENTION
C	0.90	0.11	10	6.9	0.68	FLOW TO DETENTION
D	0.90	0.32	10	6.9	1.99	FLOW TO DETENTION
E	0.90	1.07	10	6.9	6.64	FLOW TO DETENTION
F	0.90	0.32	10	6.9	1.99	BY PASS RUNOFF TO CREEK
G	0.35	0.49	20	5.0	0.86	EX. CREEK / BY PASS RUNOFF
H	0.90	0.20	10	6.9	1.24	BY PASS RUNOFF TO EAST FORK DRIVE

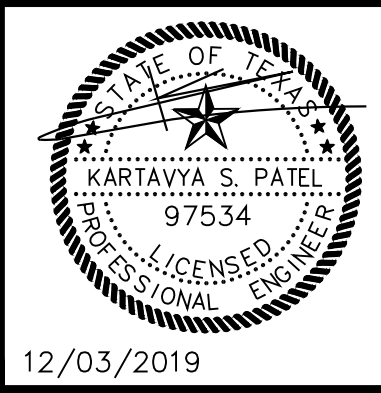
RAINFALL EVENT	ALLOWABLE DISCHARGE (X-A OF EX.)	BYPASS RUNOFF (DA-E+DA-G)	MAXIMUM DISCHARGE FROM DETENTION POND
100-YEAR	7.18 CFS	4.58 CFS	2.60 CFS
50-YEAR	6.48 CFS	4.21 CFS	2.27 CFS
25-YEAR	5.84 CFS	3.88 CFS	1.95 CFS
10-YEAR	4.93 CFS	3.74 CFS	1.18 CFS
5-YEAR	4.32 CFS	3.23 CFS	1.09 CFS

- NOTE**
- VERIFY ROOF DRAIN LOCATION WITH ARCHITECTURAL PLANS.
 - ALL ROOF DRAINS TO CONNECT TO STORM SEWER SYSTEM.
 - POSITIVE DRAINAGE SHALL BE ALLOWED AROUND THE BUILDING FOUNDATION TO PREVENT WATER GOING TO BUILDING.

AS-BUILT DRAWINGS:
 TO THE BEST OF OUR KNOWLEDGE TRIANGLE ENGINEERING LLC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

KARTAVYA S. PATEL, P.E. NO. 97534

NO.	DATE	DESCRIPTION	BY
1	12/03/2019	AS-BUILT RECORD DRAWINGS	KP



RECORD DRAWING

PROP. DRAINAGE AREA MAP
 KIDDIE ACADEMY
 NEC OF N. LAKESHORE DRIVE & E. FORK ROAD
 CITY OF ROCKWALL
 ROCKWALL COUNTY, TEXAS

TRIANGLE ENGINEERING LLC

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Planning | Civil Engineering | Construction Management

DESIGN/DRAWN	DATE	SCALE	PROJECT NO.	SHEET NO.
KP DS	08/23/16	SEE SCALE BAR	028-16	6.1

TX PE FIRM #11525

STORAGE CALCULATIONS (100 YR RAINFALL EVENT)
STORM DATA REFERENCE: CITY STANDARD RAINFALL INTENSITY-FIGURE 1 FOR 100 YEAR STORM FREQUENCY

ALLOWABLE DISCHARGE FROM SURFACE DETENTION POND = 7.18-4.59 = 2.59 CFS
(REFER ORIFICE CALCULATIONS THIS SHEET)
TOTAL DETAINED AREA= 1.95 ACRES (DRAINAGE AREAS "DA-A", "DA-B", "DA-C", "DA-D" & "DA-E")

TIME (Min)	C x Cf	I100 (100-Year)	TOTAL AREA (Acres)	Q (CFS)	INFLOW (CF)	OUTFLOW (CF)	STORAGE (CF)
10	0.90	9.80	1.95	17.20	10319.40	1,554.00	8,765
20	0.90	8.30	1.95	14.57	17479.80	2,331.00	15,149
30	0.90	6.90	1.95	12.11	21797.10	3,108.00	18,689
40	0.90	5.80	1.95	10.18	24429.60	3,885.00	20,545
50	0.90	5.00	1.95	8.78	26325.00	4,662.00	21,663
60	0.90	4.50	1.95	7.90	28431.00	5,439.00	22,992
70	0.90	4.00	1.95	7.02	29484.00	6,216.00	23,268
80	0.90	3.70	1.95	6.49	31168.80	6,993.00	24,176
90	0.90	3.50	1.95	6.14	33169.50	7,770.00	25,400
100	0.90	3.40	1.95	5.97	35820.00	8,547.00	27,255
110	0.90	3.20	1.95	5.62	37065.60	9,324.00	27,742

REQUIRED STORAGE VOLUME SUMMARY:
REQUIRED STORAGE VOLUME= INFLOW-OUTFLOW
INFLOW= STORM DURATION X RESPECTIVE PEAK DISCHARGE X 60 SEC./MIN
OUTFLOW= HALF OF THE RESPECTIVE INFLOW DURATION X CONTROL RELEASE DISCHARGE X 60 SEC./MIN

100 YEAR STORM EVENT @ 110 MIN.
INFLOW = 37065.60 CF
OUTFLOW = 9324.00 CF
REQUIRED DETENTION SYSTEM STORAGE = INFLOW-OUTFLOW= 27,742 CF
PROVIDED VOLUME (WITH 2' FREE BOARD): 45,905 CF

STORAGE CALCULATIONS (50 YR RAINFALL EVENT)
STORM DATA REFERENCE: CITY STANDARD RAINFALL INTENSITY-FIGURE 1 FOR 50 YEAR STORM FREQUENCY

ALLOWABLE DISCHARGE FROM SURFACE DETENTION POND = 6.48-4.21 = 2.27 CFS
(REFER ORIFICE CALCULATIONS THIS SHEET)
TOTAL DETAINED AREA= 1.95 ACRES (DRAINAGE AREAS "DA-A", "DA-B", "DA-C", "DA-D" & "DA-E")

TIME (Min)	C x Cf	I50 (50-Year)	TOTAL AREA (Acres)	Q (CFS)	INFLOW (CF)	OUTFLOW (CF)	STORAGE (CF)
10	0.90	9.00	1.95	15.80	9477.00	1,362.00	8,115
20	0.90	7.50	1.95	13.16	15795.00	2,043.00	13,752
30	0.90	6.20	1.95	10.88	19685.80	2,724.00	16,862
40	0.90	5.25	1.95	9.21	22113.00	3,405.00	18,708
50	0.90	4.50	1.95	7.90	23692.50	4,086.00	19,607
60	0.90	3.90	1.95	6.84	24640.20	4,767.00	19,873
70	0.90	3.48	1.95	6.11	25651.08	5,448.00	20,203
80	0.90	3.17	1.95	5.56	26704.08	6,129.00	20,575
90	0.90	2.90	1.95	5.09	27483.30	6,810.00	20,673
100	0.90	2.60	1.95	4.56	27378.00	7,491.00	19,887

REQUIRED STORAGE VOLUME SUMMARY:
REQUIRED STORAGE VOLUME= INFLOW-OUTFLOW
INFLOW= STORM DURATION X RESPECTIVE PEAK DISCHARGE X 60 SEC./MIN
OUTFLOW= HALF OF THE RESPECTIVE INFLOW DURATION X CONTROL RELEASE DISCHARGE X 60 SEC./MIN

50 YEAR STORM EVENT @ 90 MIN.
INFLOW = 27483.30 CF
OUTFLOW = 6810.00 CF
REQUIRED DETENTION SYSTEM STORAGE = INFLOW-OUTFLOW= 20,673 CF
PROVIDED VOLUME (WITH 2' FREE BOARD): 45,905 CF

STORAGE CALCULATIONS (25 YR RAINFALL EVENT)
STORM DATA REFERENCE: CITY STANDARD RAINFALL INTENSITY-FIGURE 1 FOR 25 YEAR STORM FREQUENCY

ALLOWABLE DISCHARGE FROM SURFACE DETENTION POND = 5.84-3.88 = 1.96 CFS
(REFER ORIFICE CALCULATIONS THIS SHEET)
TOTAL DETAINED AREA= 1.95 ACRES (DRAINAGE AREAS "DA-A", "DA-B", "DA-C", "DA-D" & "DA-E")

TIME (Min)	C x Cf	I25 (25-Year)	TOTAL AREA (Acres)	Q (CFS)	INFLOW (CF)	OUTFLOW (CF)	STORAGE (CF)
10	0.90	8.30	1.95	14.57	8739.90	1,176.00	7,564
20	0.90	6.75	1.95	11.85	14215.50	1,764.00	12,452
30	0.90	5.50	1.95	9.65	17374.50	2,352.00	15,023
40	0.90	4.50	1.95	7.90	19654.00	2,940.00	16,714
50	0.90	4.00	1.95	7.02	21060.00	3,528.00	17,532
60	0.90	3.50	1.95	6.14	22113.00	4,116.00	17,997
70	0.90	3.25	1.95	5.70	23655.80	4,704.00	18,952
80	0.90	2.95	1.95	5.18	24850.80	5,292.00	19,559
90	0.90	2.60	1.95	4.56	24640.20	5,880.00	18,760
100	0.90	2.30	1.95	4.04	24219.00	6,468.00	17,751
110	0.90	2.10	1.95	3.69	24324.30	7,056.00	17,268

REQUIRED STORAGE VOLUME SUMMARY:
REQUIRED STORAGE VOLUME= INFLOW-OUTFLOW
INFLOW= STORM DURATION X RESPECTIVE PEAK DISCHARGE X 60 SEC./MIN
OUTFLOW= HALF OF THE RESPECTIVE INFLOW DURATION X CONTROL RELEASE DISCHARGE X 60 SEC./MIN

25 YEAR STORM EVENT @ 80 MIN.
INFLOW = 24850.80 CF
OUTFLOW = 5292.00 CF
REQUIRED DETENTION SYSTEM STORAGE = INFLOW-OUTFLOW= 19,559 CF
PROVIDED VOLUME (WITH 2' FREE BOARD): 45,905 CF

STORAGE CALCULATIONS (10 YR RAINFALL EVENT)
STORM DATA REFERENCE: CITY STANDARD RAINFALL INTENSITY-FIGURE 1 FOR 10 YEAR STORM FREQUENCY

ALLOWABLE DISCHARGE FROM SURFACE DETENTION POND = 4.93-3.74 = 1.19 CFS
(REFER ORIFICE CALCULATIONS THIS SHEET)
TOTAL DETAINED AREA= 1.95 ACRES (DRAINAGE AREAS "DA-A", "DA-B", "DA-C", "DA-D" & "DA-E")

TIME (Min)	C x Cf	I10 (10-Year)	TOTAL AREA (Acres)	Q (CFS)	INFLOW (CF)	OUTFLOW (CF)	STORAGE (CF)
10	0.90	8.00	1.95	14.04	8424.00	714.00	7,710
20	0.90	5.70	1.95	10.00	12004.20	1,071.00	10,933
30	0.90	4.50	1.95	7.90	14215.50	1,428.00	12,788
40	0.90	3.80	1.95	6.67	16005.60	1,785.00	14,221
50	0.90	3.30	1.95	5.79	17374.50	2,142.00	15,233
60	0.90	2.90	1.95	5.08	18322.20	2,499.00	15,823
70	0.90	2.60	1.95	4.56	19164.60	2,856.00	16,309
80	0.90	2.40	1.95	4.21	20217.60	3,213.00	17,005
90	0.90	2.20	1.95	3.86	20849.40	3,570.00	17,279
100	0.90	2.00	1.95	3.51	21060.00	3,927.00	17,133
110	0.90	1.80	1.95	3.16	20849.40	4,284.00	16,565

REQUIRED STORAGE VOLUME SUMMARY:
REQUIRED STORAGE VOLUME= INFLOW-OUTFLOW
INFLOW= STORM DURATION X RESPECTIVE PEAK DISCHARGE X 60 SEC./MIN
OUTFLOW= HALF OF THE RESPECTIVE INFLOW DURATION X CONTROL RELEASE DISCHARGE X 60 SEC./MIN

10 YEAR STORM EVENT @ 90 MIN.
INFLOW = 20849.40 CF
OUTFLOW = 3570.00 CF
REQUIRED DETENTION SYSTEM STORAGE = INFLOW-OUTFLOW= 17,279 CF
PROVIDED VOLUME (WITH 2' FREE BOARD): 45,905 CF

STORAGE CALCULATIONS (5 YR RAINFALL EVENT)
STORM DATA REFERENCE: CITY STANDARD RAINFALL INTENSITY-FIGURE 1 FOR 5 YEAR STORM FREQUENCY

ALLOWABLE DISCHARGE FROM SURFACE DETENTION POND = 4.32-3.23 = 1.09 CFS
(REFER ORIFICE CALCULATIONS THIS SHEET)
TOTAL DETAINED AREA= 1.95 ACRES (DRAINAGE AREAS "DA-A", "DA-B", "DA-C", "DA-D" & "DA-E")

TIME (Min)	C x Cf	I5 (5-Year)	TOTAL AREA (Acres)	Q (CFS)	INFLOW (CF)	OUTFLOW (CF)	STORAGE (CF)
10	0.90	6.90	1.95	12.11	7265.70	654.00	6,612
20	0.90	5.00	1.95	8.78	10530.00	981.00	9,549
30	0.90	3.90	1.95	6.84	12320.10	1,308.00	11,012
40	0.90	3.30	1.95	5.79	13899.60	1,635.00	12,265
50	0.90	2.90	1.95	4.91	14742.00	1,962.00	12,780
60	0.90	2.50	1.95	4.39	15795.00	2,289.00	13,506
70	0.90	2.20	1.95	3.86	16216.20	2,616.00	13,600
80	0.90	2.00	1.95	3.51	16848.00	2,943.00	13,905
90	0.90	1.90	1.95	3.33	18006.30	3,270.00	14,736
100	0.90	1.70	1.95	2.98	17901.00	3,597.00	14,304
110	0.90	1.50	1.95	2.63	17374.50	3,924.00	13,451

REQUIRED STORAGE VOLUME SUMMARY:
REQUIRED STORAGE VOLUME= INFLOW-OUTFLOW
INFLOW= STORM DURATION X RESPECTIVE PEAK DISCHARGE X 60 SEC./MIN
OUTFLOW= HALF OF THE RESPECTIVE INFLOW DURATION X CONTROL RELEASE DISCHARGE X 60 SEC./MIN

5 YEAR STORM EVENT @ 110 MIN.
INFLOW = 18006.30 CF
OUTFLOW = 3270.00 CF
REQUIRED DETENTION SYSTEM STORAGE = INFLOW-OUTFLOW= 14,736 CF
PROVIDED VOLUME (WITH 2' FREE BOARD): 45,905 CF

ORIFICE EQUATION
 $Q = C_x A_x (2xg x H)^{1/2}$
WHERE
Q = RATE OF DISCHARGE (FT³/S)
A = ORIFICE AREA (FT²)
C = ORIFICE COEFFICIENT (USUALLY ABOUT 0.6)
g = GRAVITATIONAL CONSTANT (32.2 FT/S²)
H = DEPTH OF WATER ABOVE THE CENTROID OF THE ORIFICE (FT)

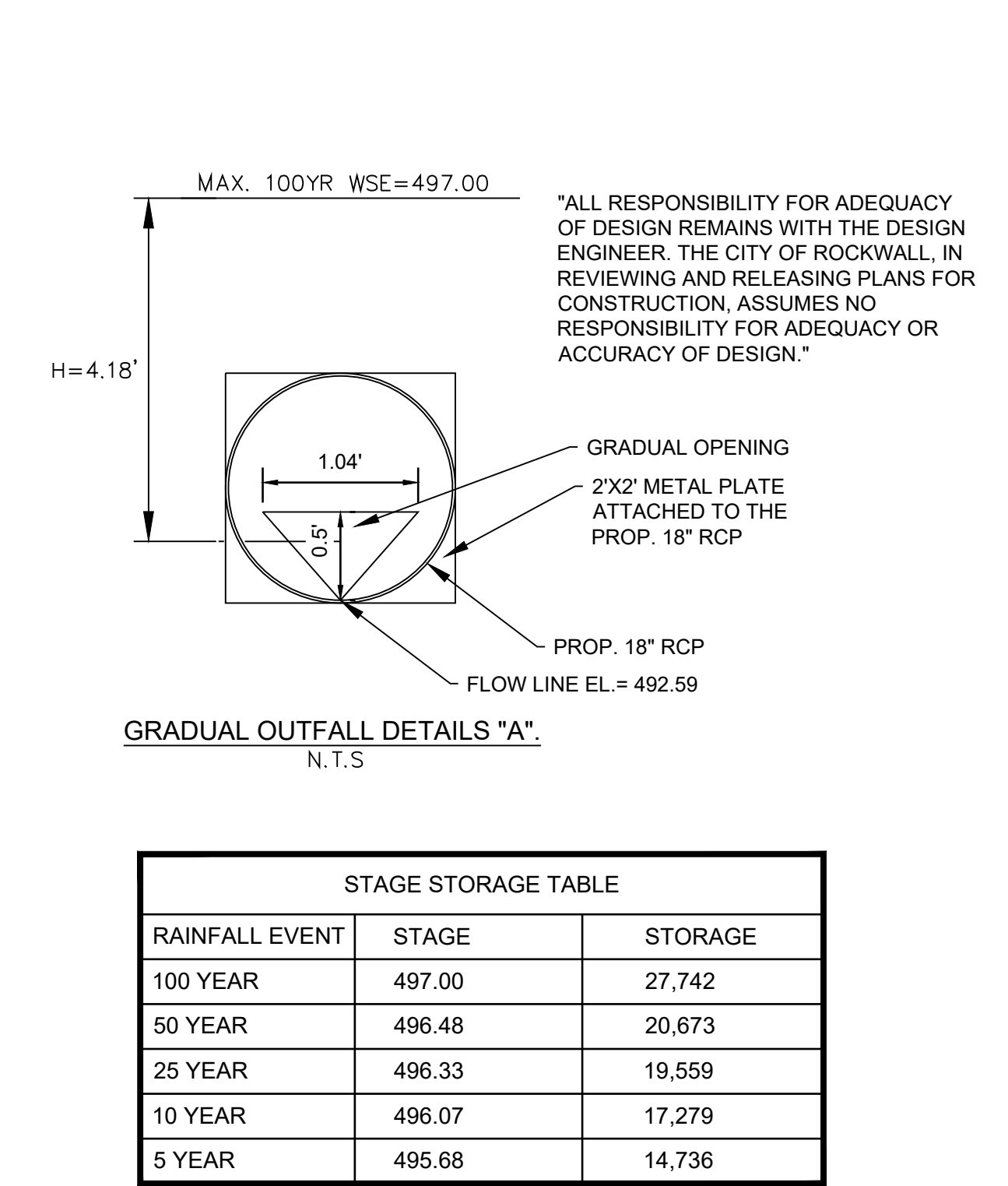
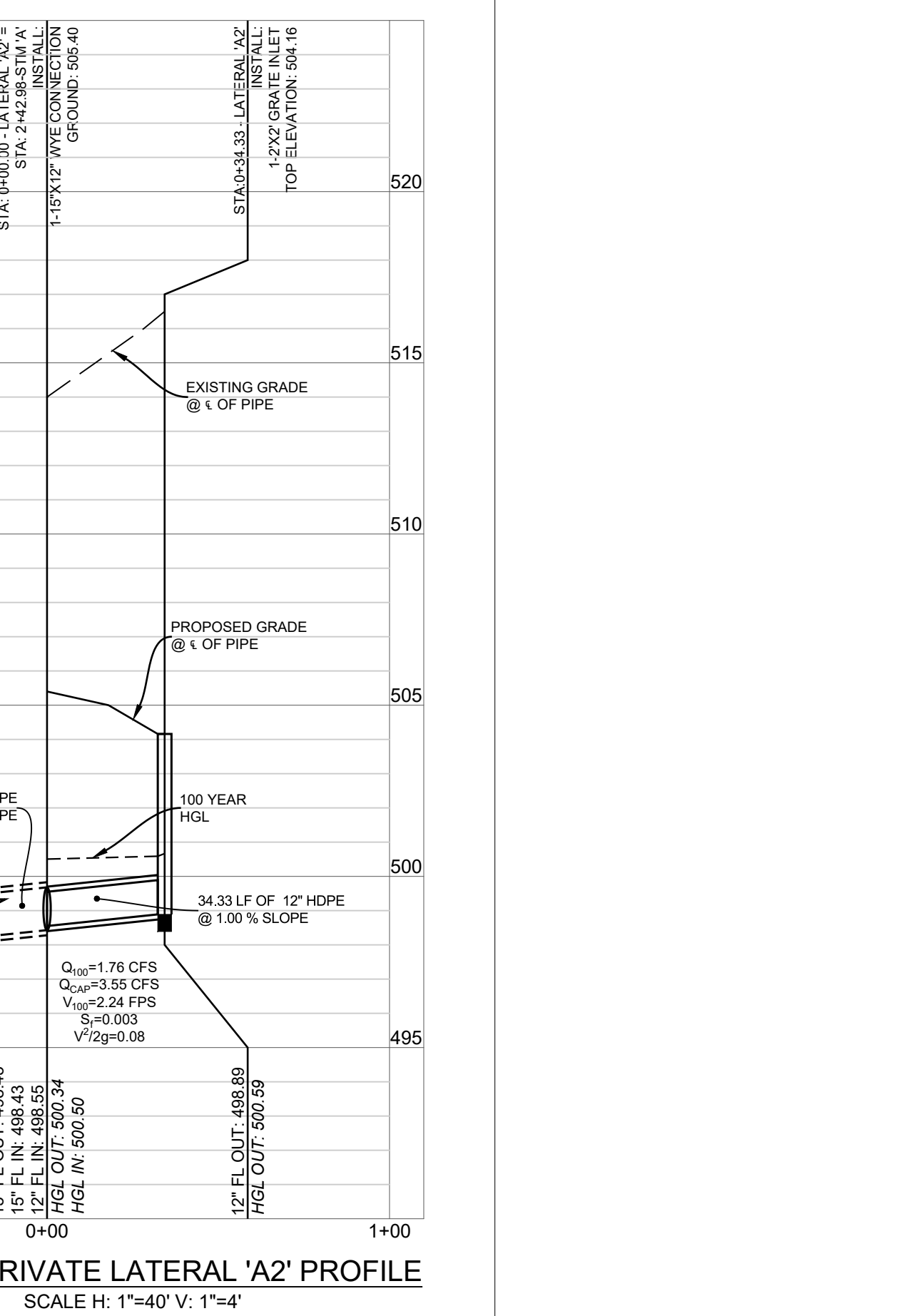
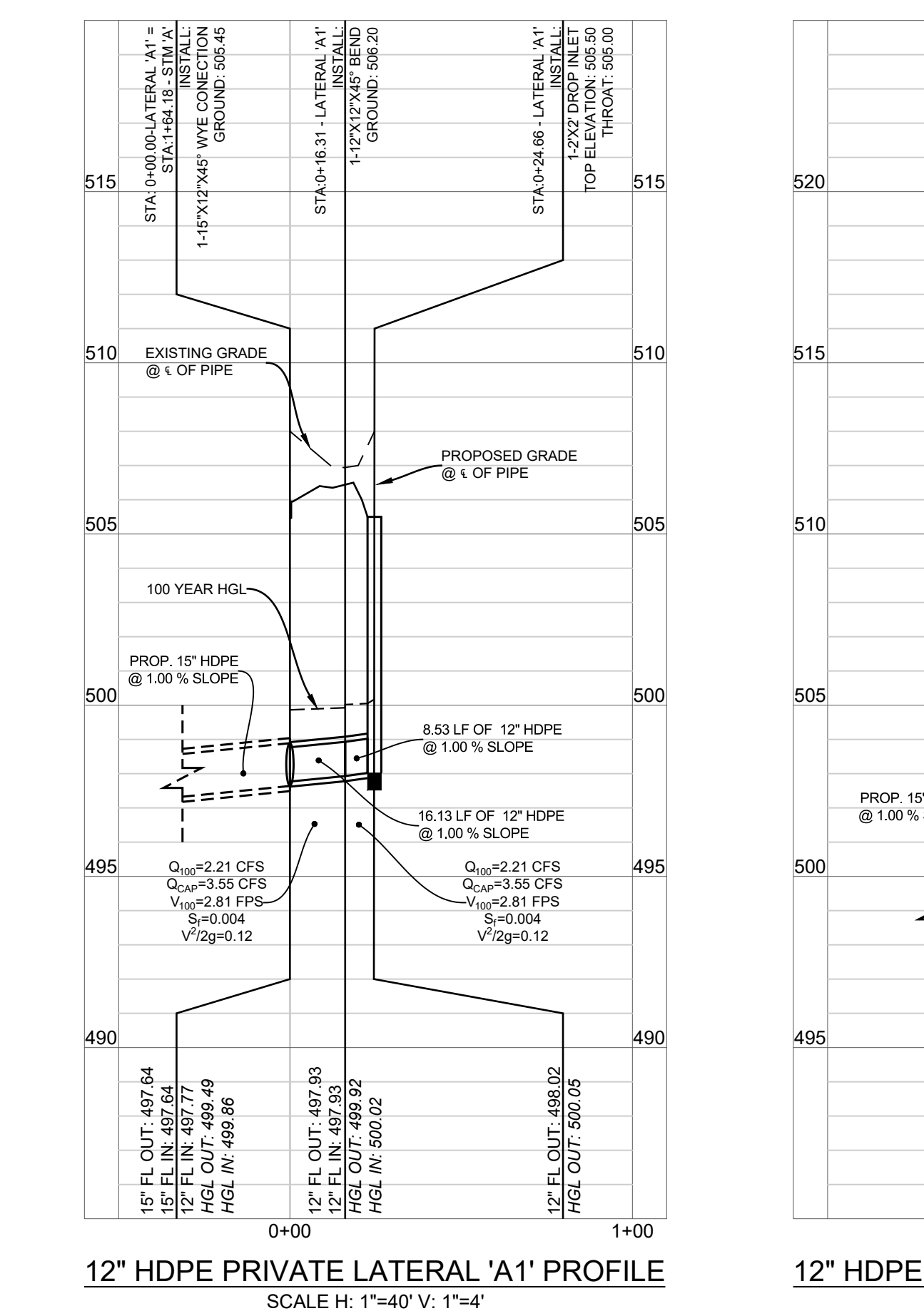
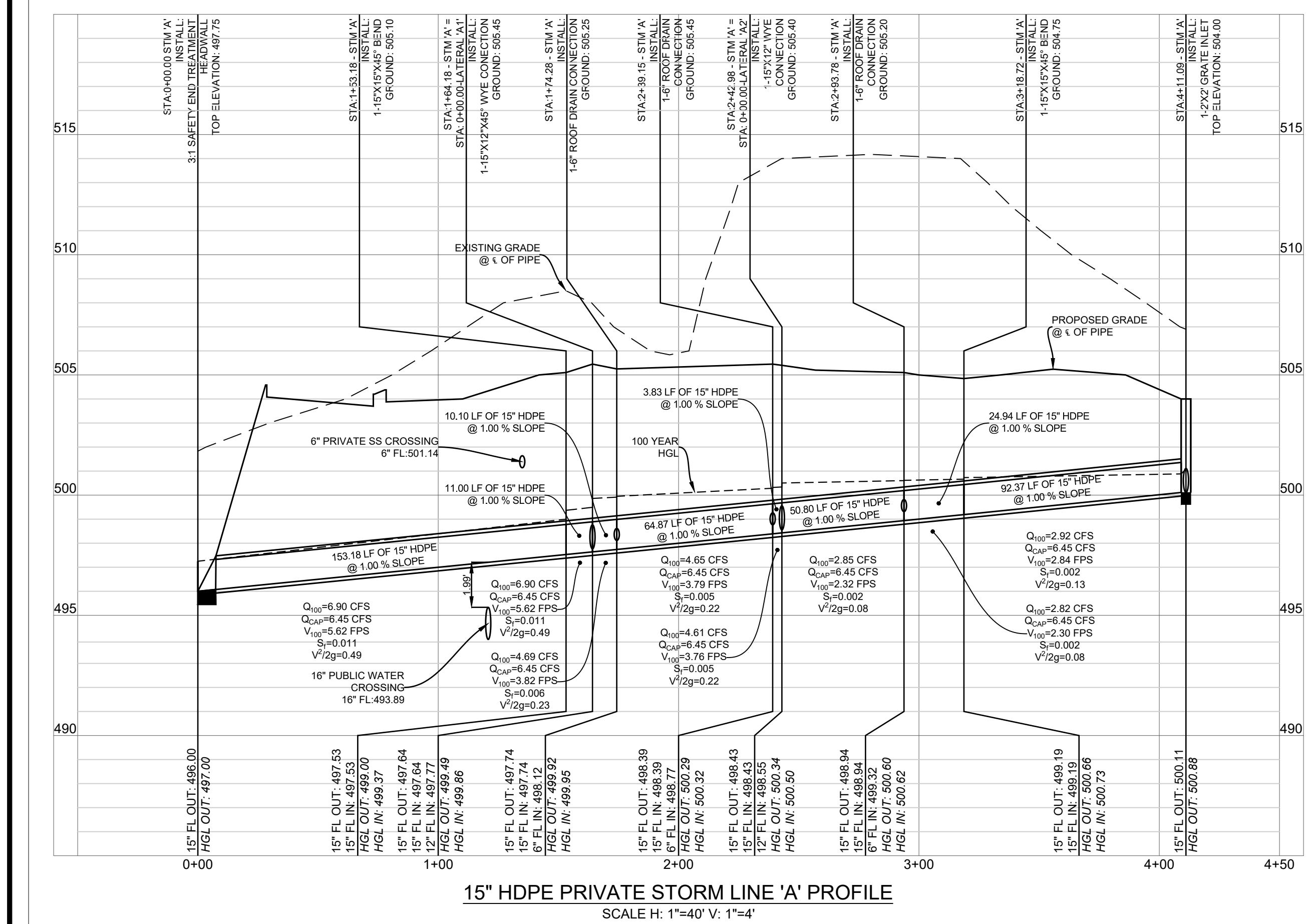
100 YRS ORIFICE CALCULATIONS FOR SURFACE DETENTION POND
USING ORIFICE EQUATION:
Q=2.59 CFS
H (AVG. DEPTH OF WATER)= 4.18 FT
 $A = \frac{Q}{C_x(2xg x H)^{1/2}} = \frac{2.59}{0.6 \times (2 \times 32.2 \times 4.18)^{1/2}} = 0.26 \text{ FT}^2$
AREA PROVIDED= 0.26 S.F.

50 YRS ORIFICE CALCULATIONS FOR SURFACE DETENTION POND
USING ORIFICE EQUATION:
H (AVG. DEPTH OF WATER)= 3.3 FT
 $Q = \frac{C_x A_x (2xg x H)^{1/2}}{60} = \frac{0.6 \times 0.26 \times (2 \times 32.2 \times 3.3)^{1/2}}{60} = 2.27 \text{ CFS}$

25 YRS ORIFICE CALCULATIONS FOR SURFACE DETENTION POND
USING ORIFICE EQUATION:
H (AVG. DEPTH OF WATER)= 2.45 FT
 $Q = \frac{C_x A_x (2xg x H)^{1/2}}{60} = \frac{0.6 \times 0.26 \times (2 \times 32.2 \times 2.45)^{1/2}}{60} = 1.96 \text{ CFS}$

10 YRS ORIFICE CALCULATIONS FOR SURFACE DETENTION POND
USING ORIFICE EQUATION:
H (AVG. DEPTH OF WATER)= 0.90 FT
 $Q = \frac{C_x A_x (2xg x H)^{1/2}}{60} = \frac{0.6 \times 0.26 \times (2 \times 32.2 \times 0.90)^{1/2}}{60} = 1.19 \text{ CFS}$

5 YRS ORIFICE CALCULATIONS FOR SURFACE DETENTION POND
USING ORIFICE EQUATION:
H (AVG. DEPTH OF WATER)= 0.76 FT
 $Q = \frac{C_x A_x (2xg x H)^{1/2}}{60} = \frac{0.6 \times 0.26 \times (2 \times 32.2 \times 0.76)^{1/2}}{60} = 1.09 \text{ CFS}$



RAINFALL EVENT	STAGE	STORAGE
100 YEAR	497.00	27,742
50 YEAR	496.48	20,673
25 YEAR	496.33	19,559
10 YEAR	496.07	17,279
5 YEAR	495.68	14,736

HYDRAULIC CALCULATION FOR PRIVATE STORMLINE 'A'												
STATION	LENGTH	TOTAL FLOW	CAPACITY	VELOCITY	PIPE SIZE	PIPE SLOPE	INVERT ELEVATION (DS)	INVERT ELEVATION (US)	HGL (DS)	HGL (US)	GROUND RIM (DS)	GROUND RIM (UP)
1+53.18	0+00.00	153.18	6.90	6.45	5.62	15.00	1.00	496.00	497.53	497.25	499.00	497.72
1+64.18	1+53.18	11.00	6.90	6.45	5.62	15.00	1.00	497.53	497.64	499.37	499.49	505.10
1+74.28	1+64.18	10.10	4.69	6.45	3.82	15.00	0.99	497.64	497.74	499.86	499.92	505.45
2+39.15	1+74.28	64.87	4.65	6.45	3.79	15.00	1.00	497.74	498.39	499.95	500.29	505.45
2+42.98	2+39.15	3.83	4.61	6.45	3.76	15.00	1.01	498.39	498.43	500.32	500.34	505.45
2+93.78	2+42.98	50.80	2.85	6.45	2.32	15.00	1.00	498.43	498.94	500.50	500.60	505.20
3+18.72	2+93.78	24.94	2.82	6.45	2.30	15.00	1.00	498.94	499.19	500.62	500.66	504.75
4+11.09	3+18.72	92.37	2.82	6.45	2.92	15.00	1.00	499.19	500.11	500.73	500.88	504.75
0+16.13	0+00.00	16.13	2.21	3.55	2.81	12.00	0.99	497.77	497.93	499.86	499.92	505.45
0+24.66	0+16.13	8.53	2.21	3.55	2.81	12.00	1.06	497.93	498.02	500.05	500.20	505.50
0+34.33	0+00.00	34.33	1.76	3.55	2.24	12.00	0.99	498.55	498.89	500.50	500.59	504.16

AS-BUILT DRAWINGS:
TO THE BEST OF OUR KNOWLEDGE TRIANGLE ENGINEERING LLC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.
KARTAVYA S. PATEL, P.E. NO. 97534

DETENTION CALCS & STORM PROFILE
KIDDIE ACADEMY
NEC OF N. LAKESHORE DRIVE & E. FORK ROAD
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS

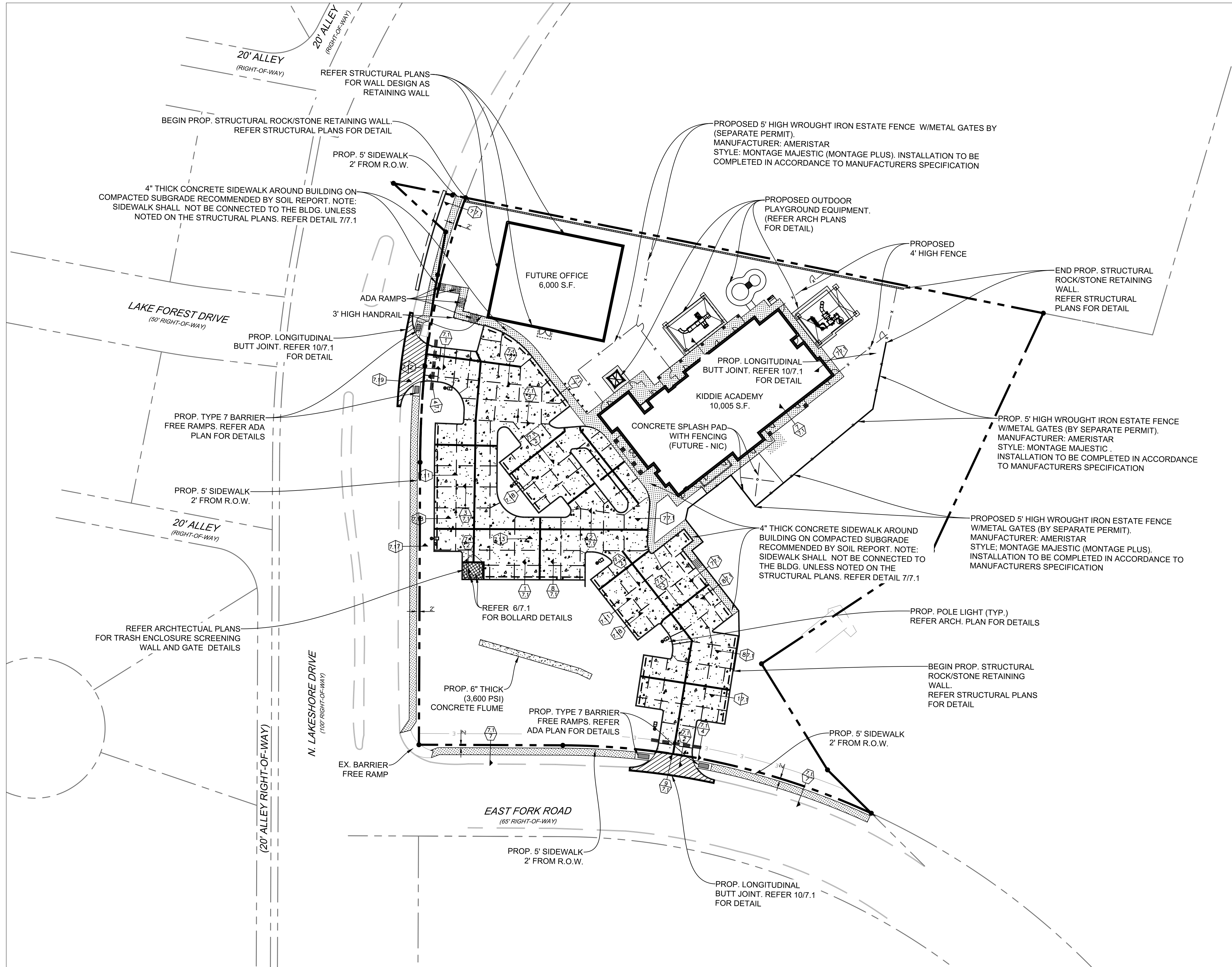
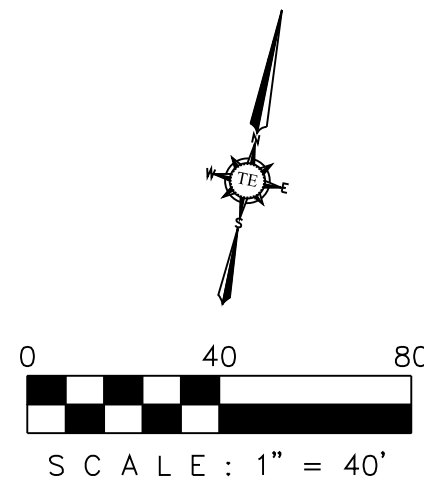
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12/03/2019 TX PE FIRM #11525

NO.	DATE	DESCRIPTION	BY
1	12/03/2019	AS-BUILT RECORD DRAWINGS	KP

KIDDIE ACADEMY SITE DEVELOPMENT

2.960 ACRES OF LAND BEING A REPLAT OF LOT 1, BLOCK S OF THE PRESERVE PHASE 3, AN ADDITION TO THE CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS



GENERAL NOTES - PAVING IMPROVEMENTS

- STRIP & REMOVE FROM THE CONSTRUCTION AREA ALL TOPSOIL, ORGANICS & VEGETATION TO A MINIMUM DEPTH OF 6 INCHES.
- SOFT SOILS SHOULD BE REMOVED UNTIL FIRM SOIL IS REACHED. THE SOFT SOILS CAN BE AERATED AND PLACED BACK IN EIGHT-INCH LOOSE LIFTS AND COMPACTED TO 95% AS SPECIFIED BY ASTM D-698. TREE STUMPS, TREE ROOTS, OLD SLABS, OLD FOUNDATIONS AND EXISTING PAVEMENTS SHOULD BE REMOVED FROM THE STRUCTURE AREA. IF THE TREE STUMPS AND ROOTS ARE LEFT IN PLACE, SETTLEMENT AND TERMITE INFESTATION MAY OCCUR. ONCE A ROOT SYSTEM IS REMOVED, A VOID IS CREATED IN THE SUBSOIL. IT IS RECOMMENDED TO FILL THESE VOIDS WITH STRUCTURAL FILL OR CEMENT-STABILIZED SAND AND COMPACT TO 95% AS SPECIFIED BY ASTM D-698. ANY LOW-LYING AREAS INCLUDING RAVINES, DITCHES, SWAMPS, ETC. SHOULD BE FILLED WITH STRUCTURAL FILL AND PLACED IN EIGHT-INCH LIFTS. EACH LIFT SHOULD BE COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY AS SPECIFIED BY ASTM D-698.
- THE EXPOSED SUBGRADE SHOULD BE SCARIFIED TO A MINIMUM DEPTH OF SIX (6) INCHES. THE SUBGRADE SHOULD THEN BE COMPACTED TO 95% OF THE MAXIMUM DENSITY AS DETERMINED BY THE STANDARD MOISTURE DENSITY RELATIONSHIP (ASTM D-698). IN THE EVENT THAT THE UPPER SIX (6) INCHES CANNOT BE COMPACTED DUE TO EXCESSIVE MOISTURE, WE RECOMMEND THAT THESE SOILS BE EXCAVATED AND REMOVED OR CHEMICALLY STABILIZED TO PROVIDE A FIRM BASE FOR FILL PLACEMENT.
- THE LOW SWELL POTENTIAL SELECT FILL SHOULD BE CLEANED AND FREE OF ORGANIC MATTER OR OTHER DELETERIOUS MATERIAL. THE FILL SHOULD BE PLACED IN MAXIMUM 9-INCH LOOSE LIFTS AND COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS DETERMINED BY ASTM D 698 (STANDARD PROCTOR). THE MOISTURE CONTENT AT THE TIME OF COMPACTION SHOULD BE AT, OR ABOVE THE OPTIMUM VALUE AS DEFINED BY ASTM D 698. THE REFERED MOISTURE CONTENT AND DENSITY SHOULD BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
- PROOF-ROLL THE SUBGRAE IN ACCORDANCE WITH CITY OF ROCKWALL'S CURRENT "STANDARD SPECIFICATION" TO REVEAL SOFT SPOTS. SOFT AREAS SHOULD BE REWORKED & COMPACTED UNTIL THEY CAN BE SUCCESSFULLY PROOF-ROLLED.
- THE SUBGRADE CAN ALSO BE STABILIZED WITH 2% LIME AND 8% FLY-ASH BY DRY WEIGHT INSTEAD OF CEMENT. THE STABILIZED CLAYS SHOULD BE COMPACTED TO A MINIMUM OF NINETY-FIVE (95) PERCENT OF THE MAXIMUM DENSITY IN A MOISTURE CONTENT RANGE OF -1% TO +4% OF THE SOIL LIME MIXTURE'S OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D-698 NO SAND ALLOWED UNDER PAVING.
- A MINIMUM STABILIZED SUBGRADE DEPTH OF 6 INCHES IS RECOMMENDED BELOW THE BOTTOM OF THE PROPOSED PAVEMENT. WE RECOMMEND THAT THE DEPTH OF STABILIZED SUBGRADE BE INCREASED TO 8-INCH FOR HEAVY TRAFFIC AREAS. IT IS TO BE NOTED THAT THE ACTUAL AMOUNT OF LIME REQUIRED BE DETERMINED AFTER STRIPPING OF THE SUBGRADE.
- A FULL THICKNESS OF THE BASE COURSE SHOULD BE EXTENDED 5 FEET BEYOND THE BACK OF CURB LINE.
- THE FILL SOILS SHOULD EXTEND AT LEAST FIVE FEET BEYOND THE PERIMETER OF THE STRUCTURE.
- THE CONCRETE IN LIGHT DUTY PAVEMENT AREAS SHOULD HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3,600 POUNDS PER SQUARE INCH AND IN HEAVY DUTY PAVEMENT AREAS, A 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI IS RECOMMENDED. ASSUMING A NOMINAL MAXIMUM AGGREGATE SIZE OF 1 TO 1 1/2 INCHES, IT IS RECOMMENDED THAT THE CONCRETE HAVE ENTRAINMENT AIR OF 5 PERCENT (+1%) WITH A MAXIMUM WATER CEMENT RATIO OF 0.50.
- THE EXPANSION JOINT SPACING SHALL BE AT 60' MAX.
- CONTROL JOINTS FORMED BY SAWING ARE RECOMMENDED AT MAX. 12' IN BOTH LONGITUDINAL AND TRANSVERSE DIRECTIONS. CONTROL JOINT SHALL BE SAWED WITHIN 3 HOURS AFTER PLACING CONCRETE. JOINTS SHALL BE PROPERLY CLEANED AND SEALED AS SOON AS POSSIBLE AFTER JOINTS ARE CUT.
- DRAINAGE SHOULD BE MAINTAINED AWAY FROM THE FOUNDATION, BOTH DURING AND AFTER CONSTRUCTION. WATER SHOULD NOT BE ALLOWED TO POND NEAR THE FOUNDATION. THE FOLLOWING ITEMS SHOULD PROVIDE FOR POSITIVE DRAINAGE OF WATER AWAY FROM THE FOUNDATION: SIDEWALKS AND OTHER CONCRETE FLAT WORK, PARKING AREAS, DRIVEWAYS AND OTHER SURFACE DRAINAGE FEATURES, AND LANDSCAPING.
- FRENCH DRAINS ARE RECOMMENDED AROUND ANY SLABS WHERE SEEPING GROUND WATER IS ENCOUNTERED DURING CONSTRUCTION.
- SIDEWALK AROUND THE BUILDING SHALL NOT BE STRUCTURALLY CONNECTED TO THE BUILDING FOUNDATION UNLESS IT'S NOTED ON THE STRUCTURAL PLANS.
- ANY STAGE IN THE CONSTRUCTION OF THE PAVEMENT A NON-STABLE OR WEAVING CONDITION OF THE SUBGRADE OR BASE COURSE BE NOTED UNDER THE WHEEL LOADS OF CONSTRUCTION EQUIPMENT, SUCH AREAS SHOULD BE DELINEATED AND GEOTECHNICAL ENGINEER CONSULTED FOR REMEDIATION BEFORE COMPLETING THE PAVEMENT SECTION.
- ALL EXPANSION JOINTS AND CRACK CONTROL JOINTS SHOULD BE SEALED TO PREVENT THE INFILTRATION OF WATER INTO THE SUBSURFACE. THIS IS PARTICULARLY IMPORTANT AROUND IRRIGATED LANDSCAPING AND ALONG THE DRAINAGE PATH OF ROOF DOWNSPOUTS.
- LANDSCAPE ISLANDS SHOULD BE BACK-FILLED WITH LOW PLASTICITY CLAYS TO REDUCE WATER INTRUSION INTO THE SUBSURFACE PAVEMENT STRUCTURES. CURBS SHOULD BE PROVIDED WITH WEEP HOLES IN LANDSCAPE AREAS TO REDUCE THE BUILD UP OF HYDROSTATIC PRESSURE AND TO REDUCE THE INTRUSION OF WATER INTO THE SUBSURFACE MATERIAL.
- CURB AND GUTTER SHALL CONSIST OF STEEL REINFORCED CONCRETE AND SHALL BE SIX (6") INCHES HIGH AND TWENTY FOUR (24") INCHES WIDE.
- THE PARKWAYS AND STREETS SHALL BE ROUGH CUT TO A PLUS OR MINUS ONE-TENTH (0.1) FEET OF THEIR RESPECTIVE FINAL GRADES.
- CONSTRUCTION OF WHEEL CHAIR RAMPS WILL BE THE RESPONSIBILITY OF THE PAVING CONTRACTOR AT THE TIME OF PUBLIC IMPROVEMENTS.
- THE CONTRACTOR SHALL PROCEED WITH PAVING NO MORE THAN SEVENTY-TWO (72) HOURS AFTER DENSITY / MOISTURE TESTS HAVE BEEN TAKEN AND PASSED BY A REGULAR TESTING FIRM. COPIES OF THE TEST RESULTS SHALL BE FURNISHED TO THE CITY. IN THE EVENT PAVING OPERATIONS HAVE NOT COMMENCED WITHIN THE SEVENTY-TWO-(72) HOUR LIMIT, A RETEST SHALL BE REQUIRED AT THE CONTRACTOR'S EXPENSE.
- MANHOLE RIM ELEVATIONS, CLEAN-OUTS, VALVE BOXES, FIRE HYDRANTS, ETC. SHALL BE ADJUSTED TO FINISHED GRADE BY THE PAVING CONTRACTOR AT THE TIME OF PAVING.
- THE PAVING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL "PERMANENT SURVEY REFER MONUMENTS" AS DESCRIBED IN THE SUBDIVISION ORDINANCE INCLUDING CONCRETE MONUMENTS AT ALL BOUNDARY CORNERS.
- THE SURFACE OF THE SUBGRADE SHALL BE THOROUGHLY WETTED IMMEDIATELY PRIOR TO CONCRETE PLACEMENT.

LEGEND

- EXPANSION JOINT (@ 120' MAX.)
- SAWCUT (@ 15' MAX.)
- DETAIL NUMBER
- SHEET NUMBER

NOTE:

- SIDEWALK SHALL NOT BE STRUCTURALLY CONNECTED TO THE BUILDING FOUNDATION UNLESS IT'S NOTED ON THE PLANS. PLEASE REFER STRUCTURAL PLANS FOR BUILDING FOUNDATION DETAILS.
- THIRD PARTY INSPECTION WILL BE REQUIRED ON FIRE LANE CONSTRUCTION. A LETTER SHALL BE PROVIDED (BY A TESTING LAB OR DESIGN ENGINEER) THAT CERTIFIES THAT THE FIRE LANE HAS BEEN CONSTRUCTED IN ACCORDANCE WITH CITY STANDARDS AND CONSTRUCTION PLANS. THE LETTER SHALL BE SPECIFIC TO DEPTH, STRENGTH AND REBAR PLACEMENT.

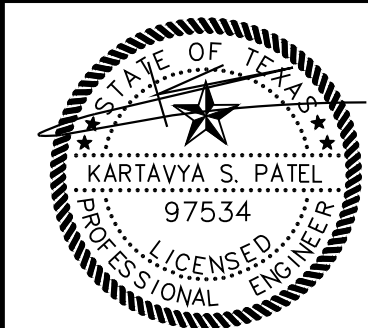
PROPOSED RIGID PAVEMENT

PAVEMENT THICKNESS	LEGEND	SUBGRADE	PROP. REINFORCEMENT	PROP. USE
4" THICK CONC. PAVEMENT 3000 P.S.I. (5.5 SACK)	[Symbol]	6" THICK STABILIZED SUBGRADE	NO. 3 REBAR @ 18" O.C. EACH WAY	SIDEWALK
6" THICK CONC. PAVEMENT 3,600 P.S.I. (6.0 SACK MACHINE PLACED) (6.5 SACK HAND PLACED)	[Symbol]	6" THICK STABILIZED SUBGRADE	NO. 3 REBAR @ 18" O.C. EACH WAY	PARKING AREA
8" THICK CONC. PAVEMENT 3,600 P.S.I. (6.0 SACK MACHINE PLACED) (6.5 SACK HAND PLACED)	[Symbol]	6" THICK STABILIZED SUBGRADE	NO. 3 REBAR @ 18" O.C. EACH WAY	TRASH ENCLOSURE AREA
8" THICK CONC. PAVEMENT 4,200 P.S.I. (6.0 SACK MACHINE PLACED) (6.5 SACK HAND PLACED)	[Symbol]	6" THICK STABILIZED SUBGRADE	NO. 3 REBAR @ 18" O.C. EACH WAY	FIRE LANE
10" THICK CONC. PAVEMENT 4,200 P.S.I. (7.0 SACK MACHINE PLACED) (7.5 SACK HAND PLACED)	[Symbol]	14" LIME TREATED STABILIZED SUBGRADE	NO. 3 REBAR @ 18" O.C. EACH WAY	DRIVEWAY

AS-BUILT DRAWINGS:
TO THE BEST OF OUR KNOWLEDGE TRIANGLE ENGINEERING LLC., HEREBY STATES THAT THIS PLAN IS AS-BUILT. THE INFORMATION PROVIDED IS BASED ON SURVEYING AT THE SITE AND INFORMATION PROVIDED BY THE CONTRACTOR.

KARTAVYA S. PATEL, P.E. NO. 97534

NO.	DATE	DESCRIPTION	BY
1	12/03/2019	AS-BUILT RECORD DRAWINGS	KP



RECORD DRAWING

PAVING PLAN
KIDDIE ACADEMY
NEC OF N. LAKESHORE DRIVE & E. FORK ROAD
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS



T: 214.609.9271 | F: 469.359.6709 | E: kpatel@triangle-engr.com
W: triangle-engr.com | O: 1784 W. McDermott Drive, Suite 110, Allen, TX 75013

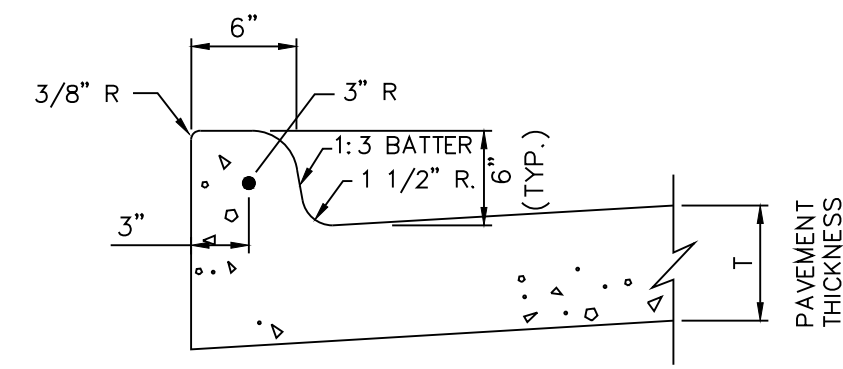
DESIGN/DRAWN	DATE	SCALE	PROJECT NO.	SHEET NO.
KP DS	08/23/16	SEE SCALE BAR	028-16	7

12/03/2019

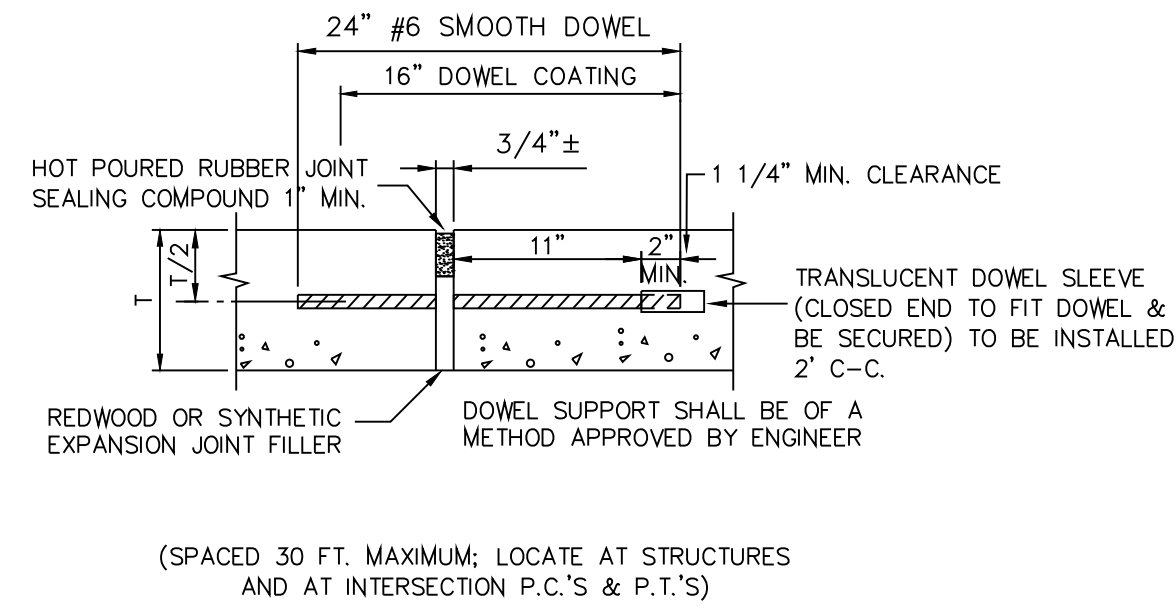
TX PE FIRM #11525

KIDDIE ACADEMY SITE DEVELOPMENT

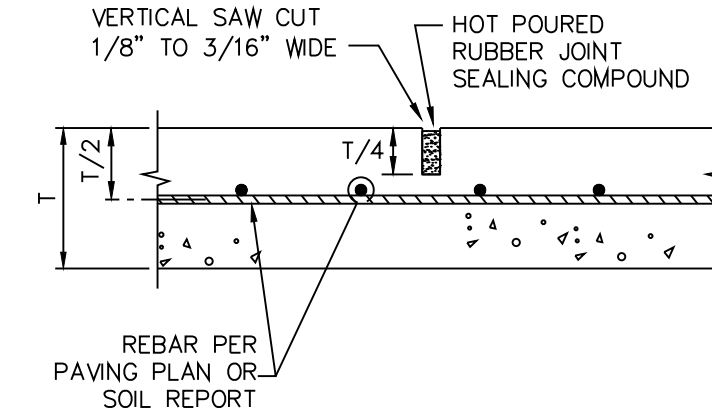
2.960 ACRES OF LAND BEING A REPLAT OF LOT 1, BLOCK S OF THE PRESERVE PHASE 3, AN ADDITION TO THE CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS



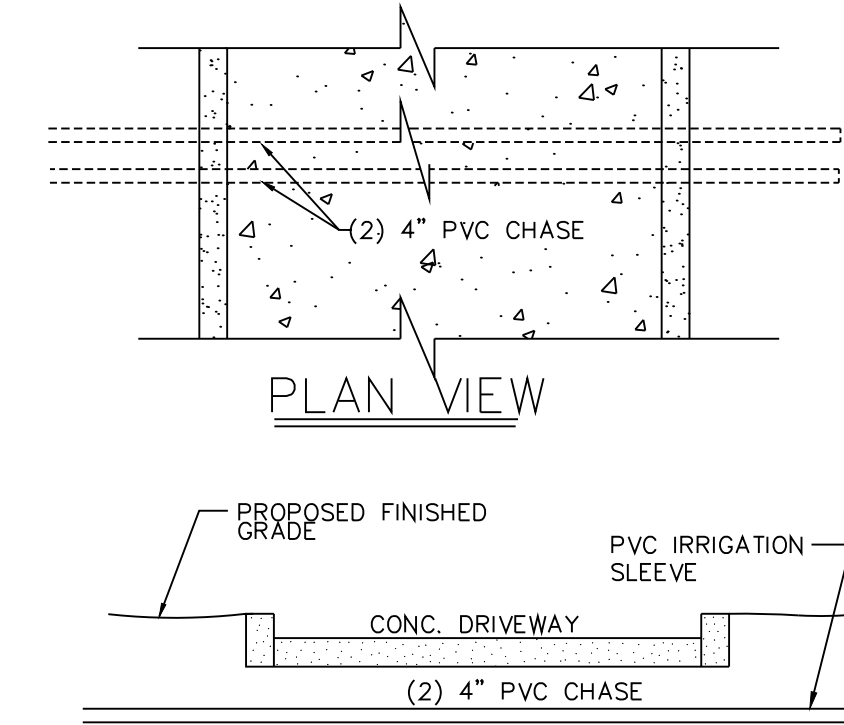
1 TYP. CURB DETAIL
7.1 N.T.S.



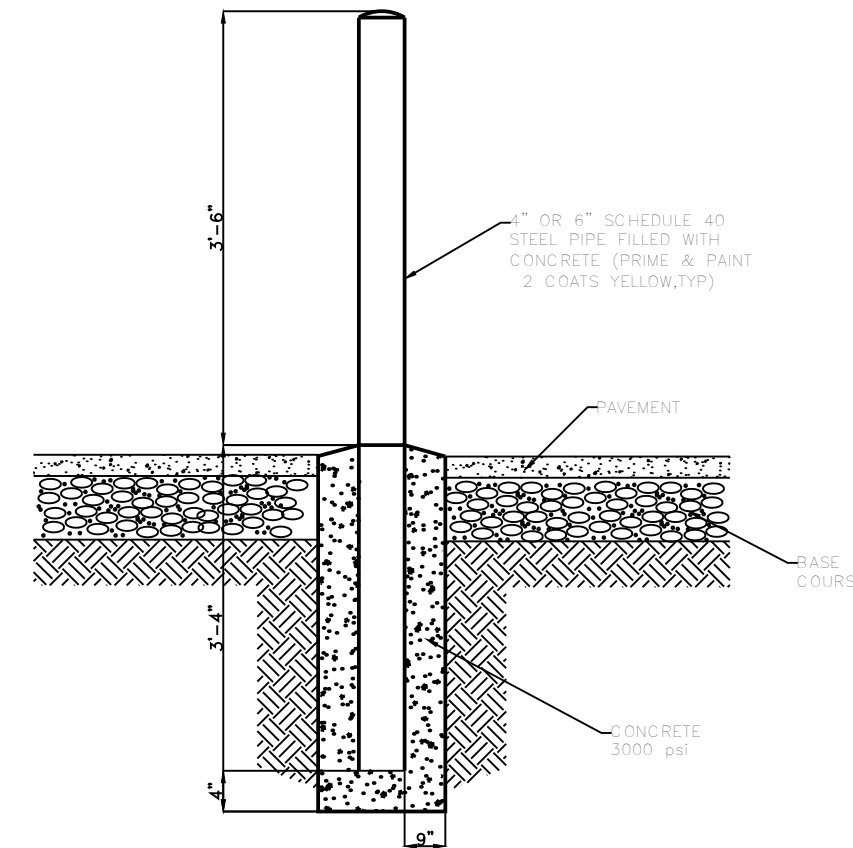
2 TYP. EXPANSION JOINT DETAIL
7.1 N.T.S.



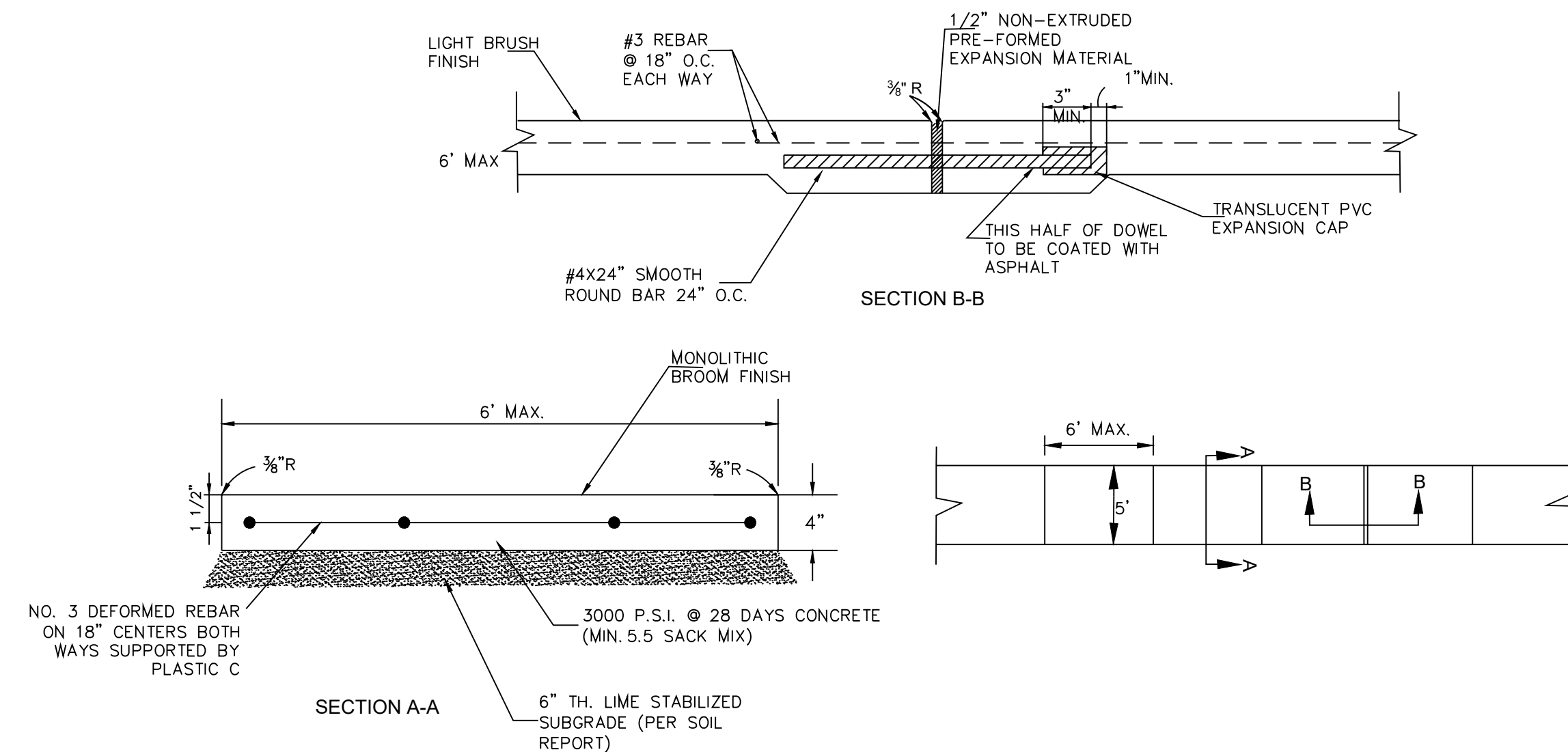
3 TYPICAL SAW CUT DETAIL
7.1 N.T.S.



4 IRRIGATION SLEEVES
7.1 N.T.S.



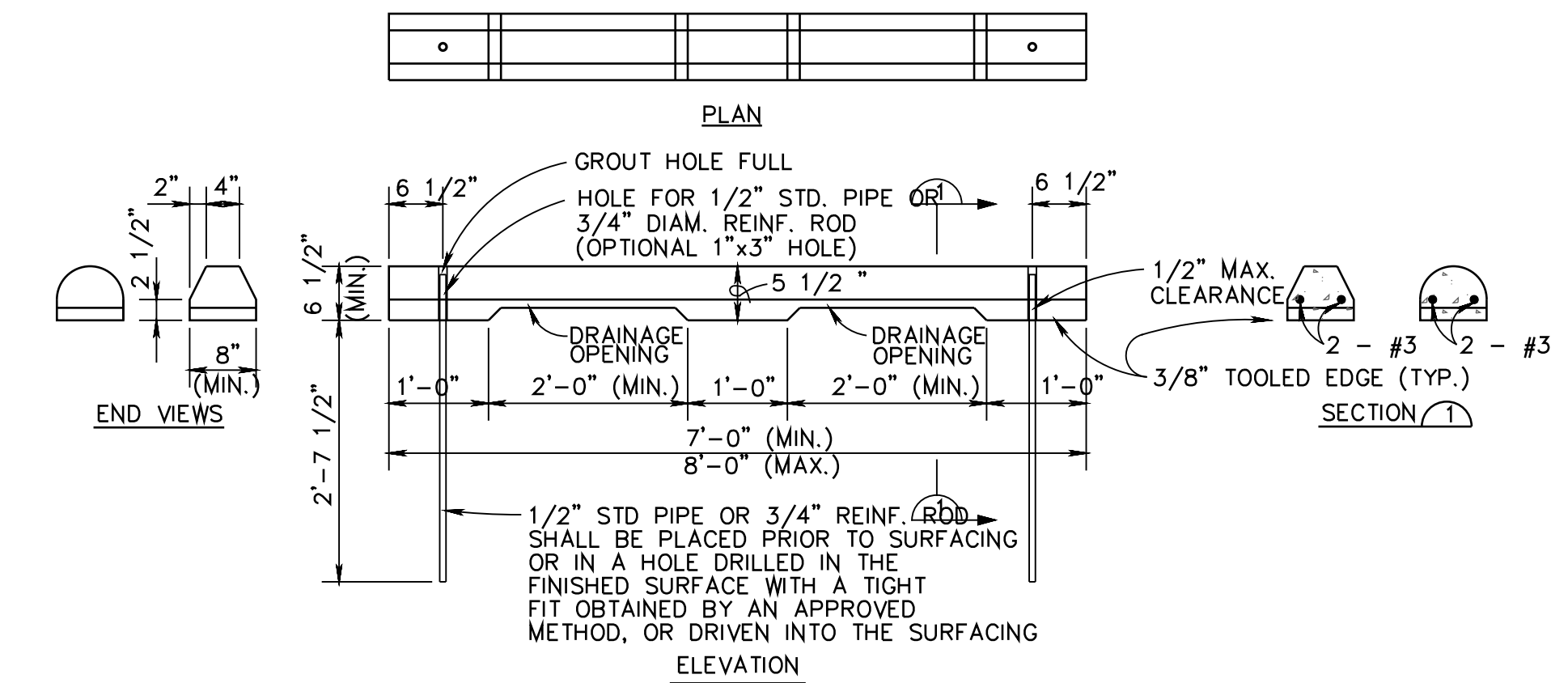
6 6" DIA. BOLLARD DETAILS
7.1 N.T.S.



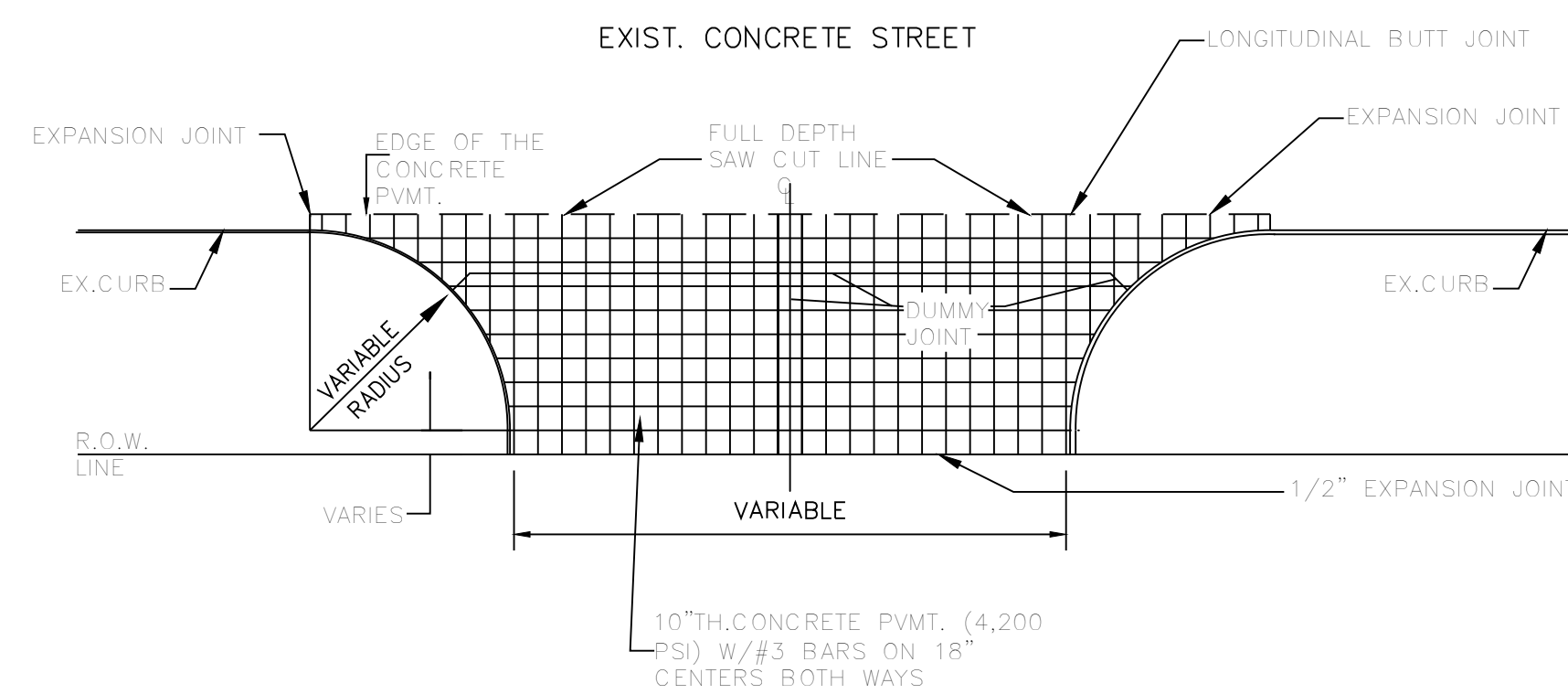
7 SIDEWALK DETAILS
7.1 N.T.S.

File: LONGITUDINAL BUTT JOINT.pdf
Missing for invalid reference

5 LONGITUDINAL BUTT JOINT
7.1 N.T.S.



8 PRECAST CONCRETE WHEEL STOP DETAILS
7.1 N.T.S.



10 CONCRETE DRIVEWAY DETAIL
7.1 N.T.S.

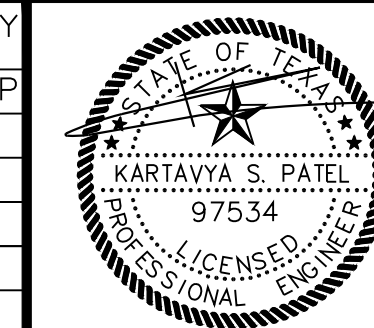
REFER MEP PLAN FOR DETAILS

9 TYPICAL SITE LIGHTING SECTIONS
7.1 N.T.S.

AS-BUILT DRAWINGS:
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KARTAVYA S. PATEL, P.E. NO. 97534

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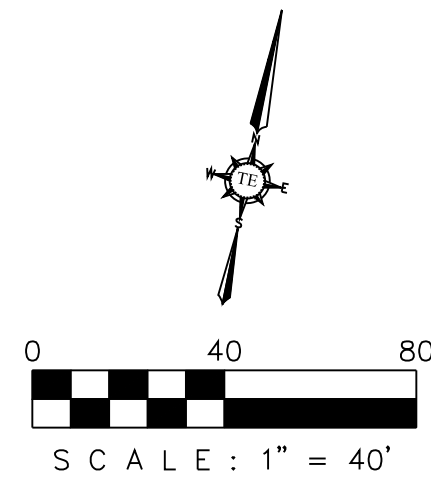
12/03/2019

RECORD DRAWING

PAVING DETAILS			
KIDDIE ACADEMY			
NEC OF N. LAKESHORE DRIVE & E. FORK ROAD			
CITY OF ROCKWALL			
ROCKWALL COUNTY, TEXAS			
T: 214.609.9271 F: 469.359.6709 E: kpatel@triangle-engr.com W: triangle-engr.com O: 1784 W. McDermott Drive, Suite 110, Allen, TX 75013			
Planning Civil Engineering Construction Management		DESIGN/DRAWN	
KP	DS	DATE	SCALE
		08/23/16	SEE SCALE BAR
		PROJECT NO.	SHEET NO.
		028-16	7.1
TX PE FIRM #11525			

KIDDIE ACADEMY SITE DEVELOPMENT

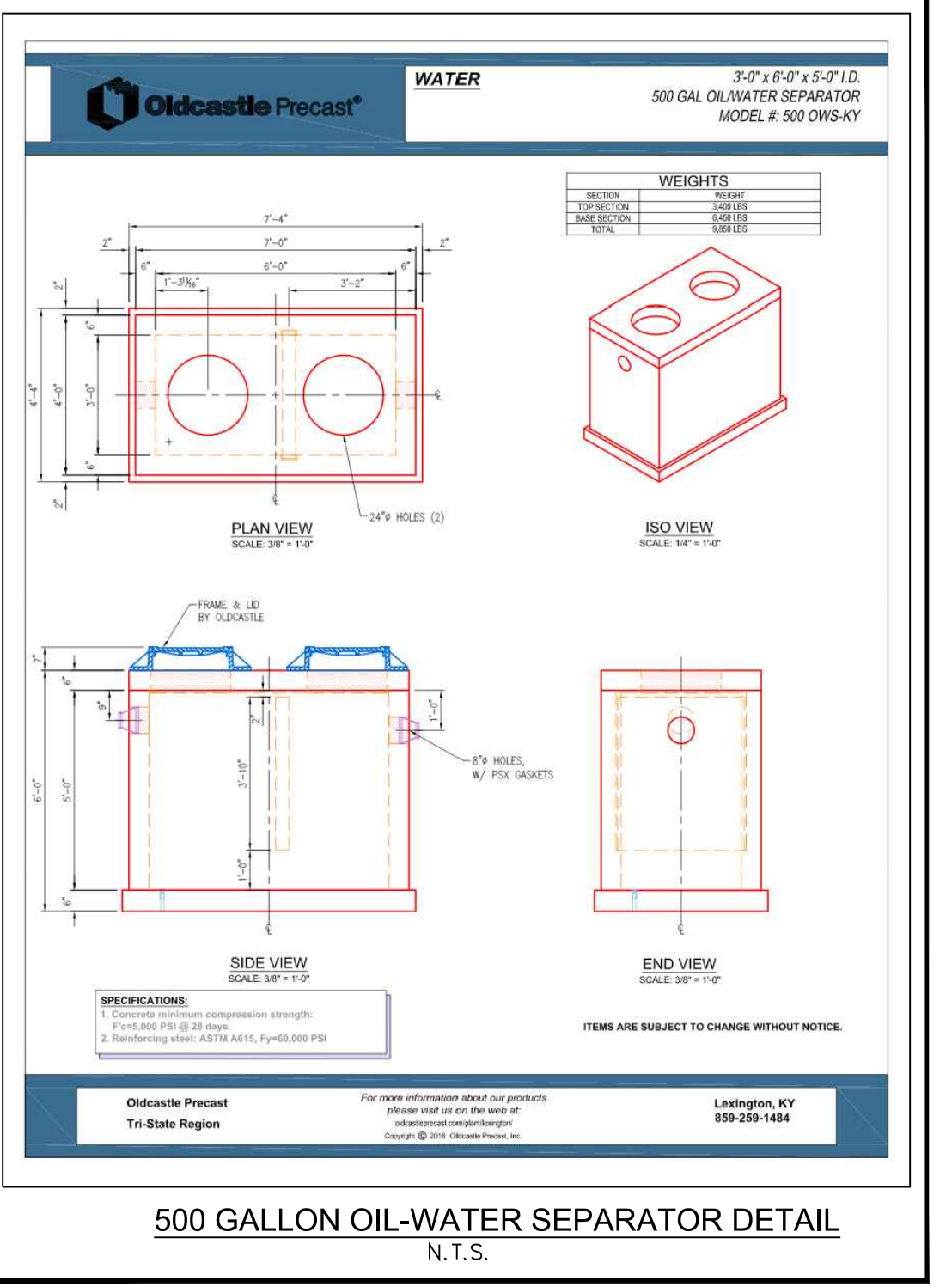
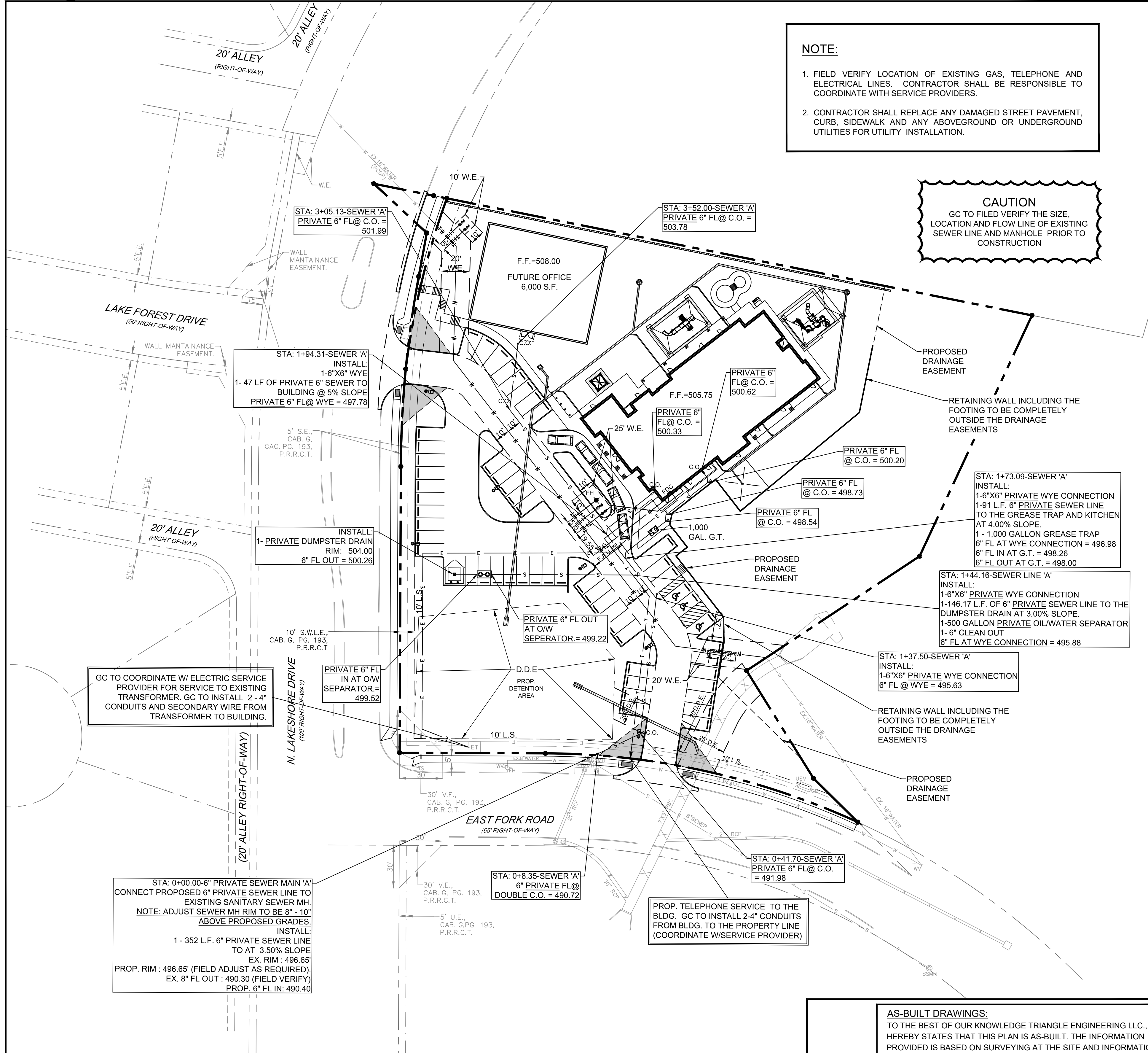
2.960 ACRES OF LAND BEING A REPLAT OF LOT 1, BLOCK S OF THE PRESERVE PHASE 3, AN ADDITION TO THE CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS



NOTE:

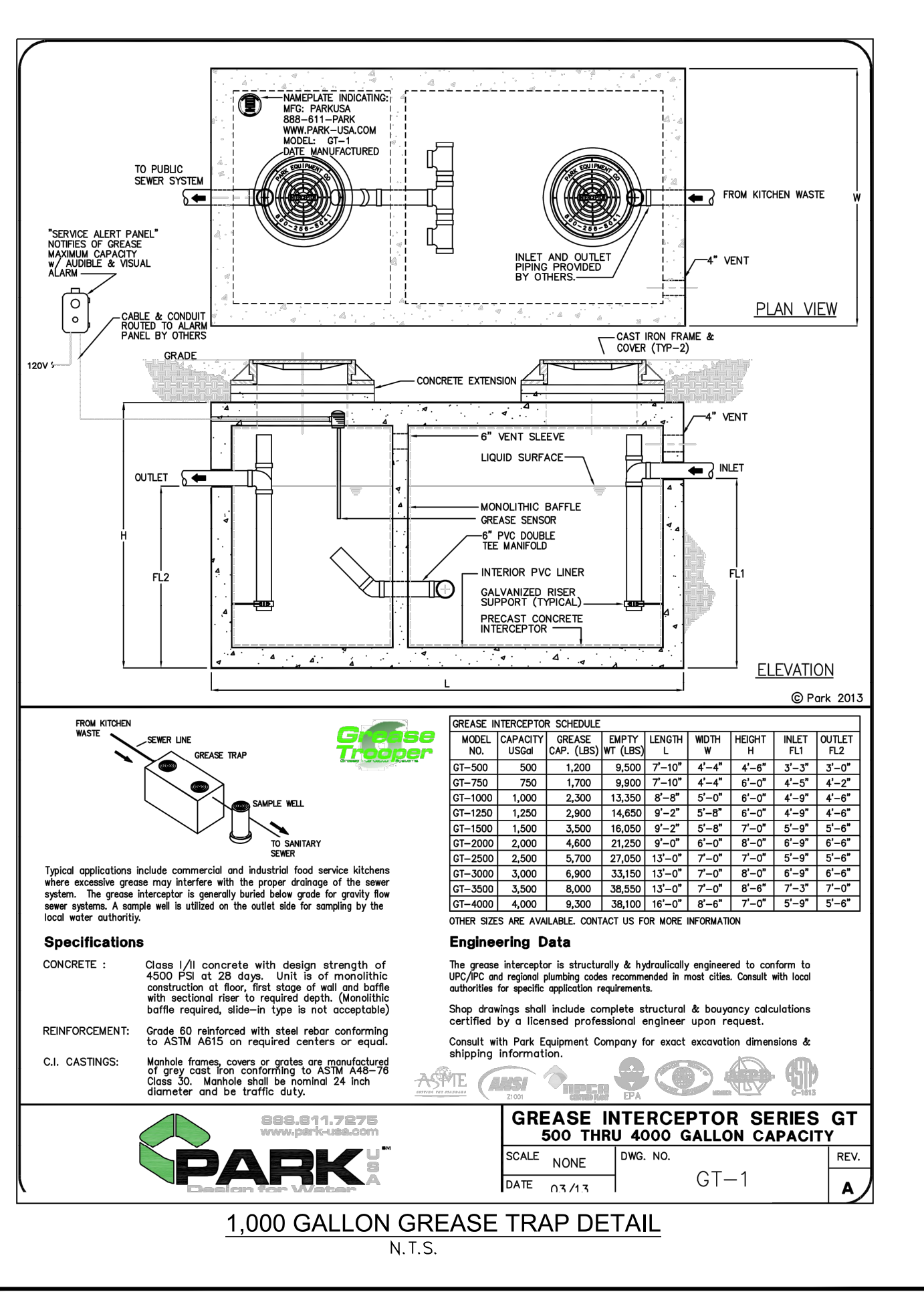
- FIELD VERIFY LOCATION OF EXISTING GAS, TELEPHONE AND ELECTRICAL LINES. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH SERVICE PROVIDERS.
- CONTRACTOR SHALL REPLACE ANY DAMAGED STREET PAVEMENT, CURB, SIDEWALK AND ANY ABOVEGROUND OR UNDERGROUND UTILITIES FOR UTILITY INSTALLATION.

CAUTION
GC TO FIELD VERIFY THE SIZE, LOCATION AND FLOW LINE OF EXISTING SEWER LINE AND MANHOLE PRIOR TO CONSTRUCTION



LEGEND

PUBLIC UTILITY EASEMENT	P.U.E.
SANITARY SEWER EASEMENT	S.E.
DRAINAGE & DETENTION EASEMENT	D.E.
WATERLINE EASEMENT	W.E.
CLEAN OUT	C.O.
GAS METER	GM
ELECTRICAL TRANSFORMER	ET
FH	FH
SANITARY SEWER MANHOLE	SSMH
STORM SEWER MANHOLE	STMHM
BUILDING SET BACK	B.S.
LANDSCAPE SETBACK	L.B.
PRESSURE REDUCING VALVE	PRV
FIRE DEPARTMENT CONNECTION	F.D.C.
GAS MARKER	GMA



STA: 0+00.00-6" PRIVATE SEWER MAIN 'A' CONNECT PROPOSED 6" PRIVATE SEWER LINE TO EXISTING SANITARY SEWER MH.
NOTE: ADJUST SEWER MH RIM TO BE 8" - 10" ABOVE PROPOSED GRADES.
INSTALL:
1 - 352 L.F. 6" PRIVATE SEWER LINE TO AT 3.50% SLOPE
EX. RIM : 496.65'
PROP. RIM : 496.65' (FIELD ADJUST AS REQUIRED).
EX. 8" FL OUT : 490.30' (FIELD VERIFY)
PROP. 6" FL IN : 490.40'

NOTE:
ALL SEWER ON SITE IS PRIVATE.

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KARTAVYA S. PATEL, P.E. NO. 97534

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RECORD DRAWING

UTILITY PLAN
KIDDIE ACADEMY
NEC OF N. LAKESHORE DRIVE & E. FORK ROAD
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS



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Planning | Civil Engineering | Construction Management

DESIGN/DRAWN	DATE	SCALE	PROJECT NO.	SHEET NO.
KP	DS	08/23/16	SEE SCALE BAR	028-16

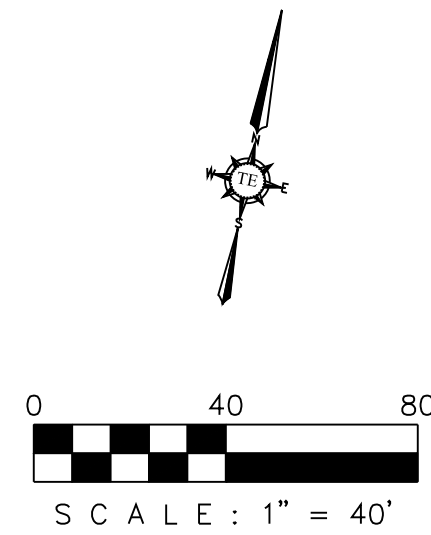
TX PE FIRM #11525

12/03/2019

8

KIDDIE ACADEMY SITE DEVELOPMENT

2.960 ACRES OF LAND BEING A REPLAT OF LOT 1, BLOCK S OF THE PRESERVE PHASE 3, AN ADDITION TO THE CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS

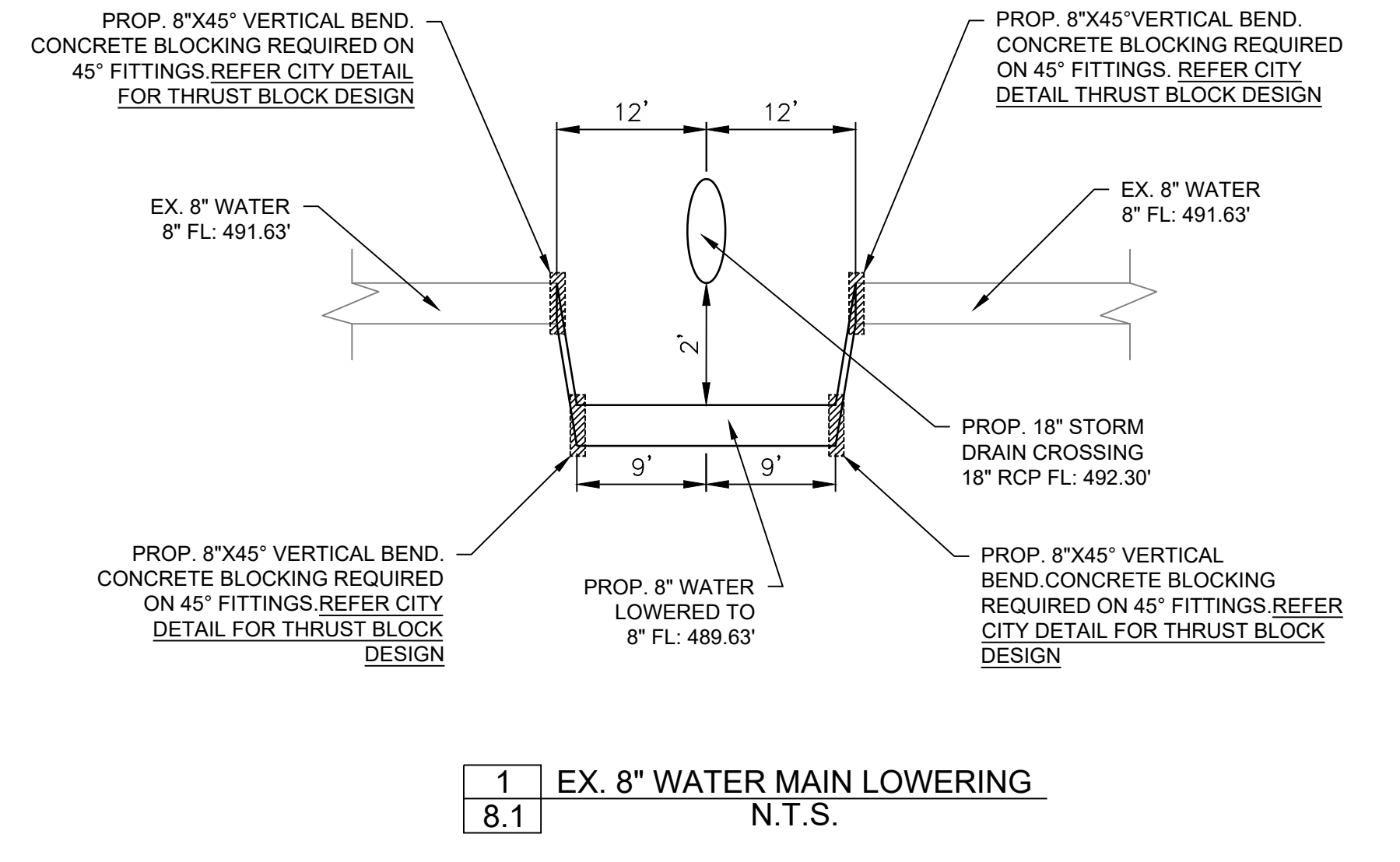
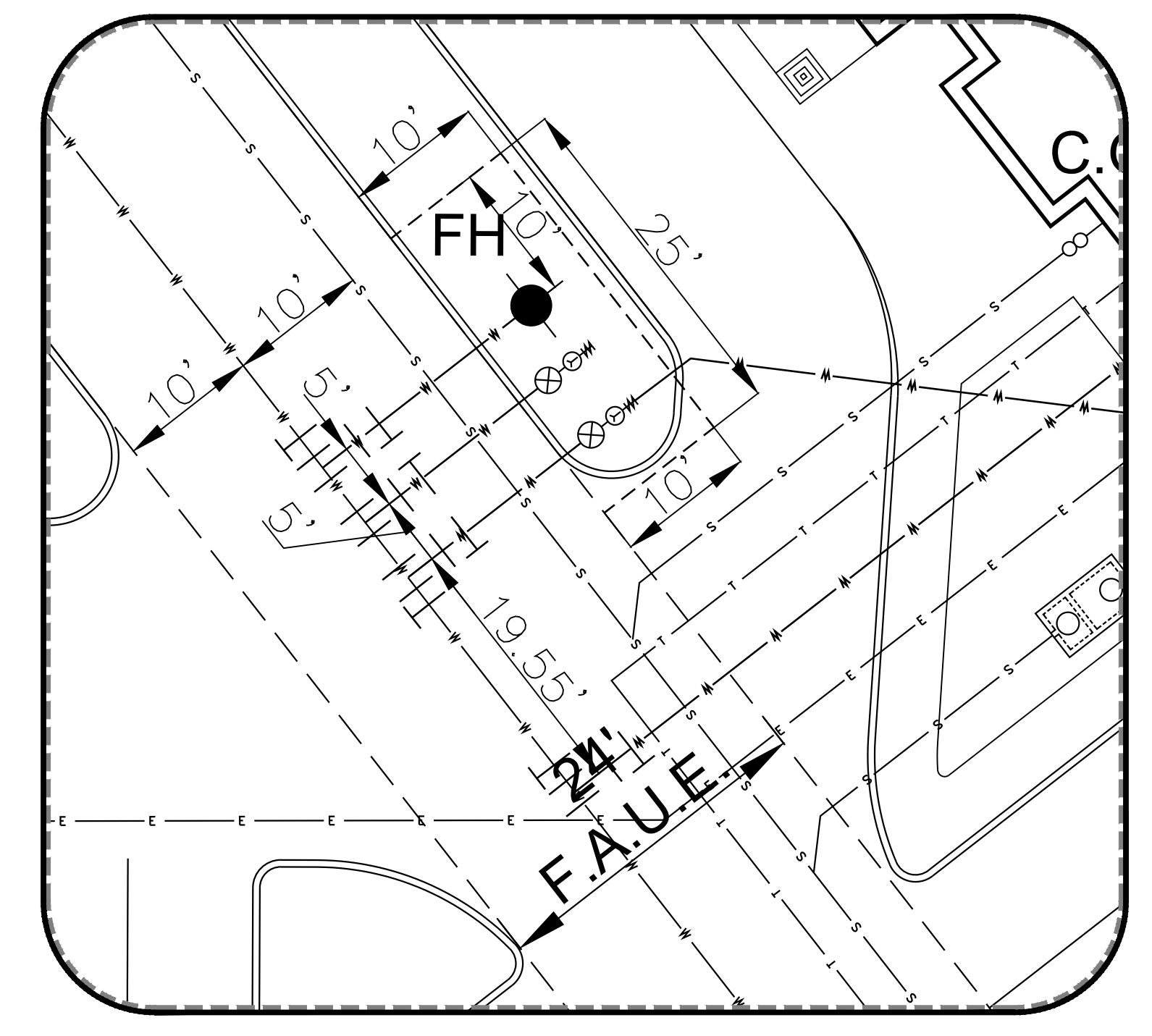
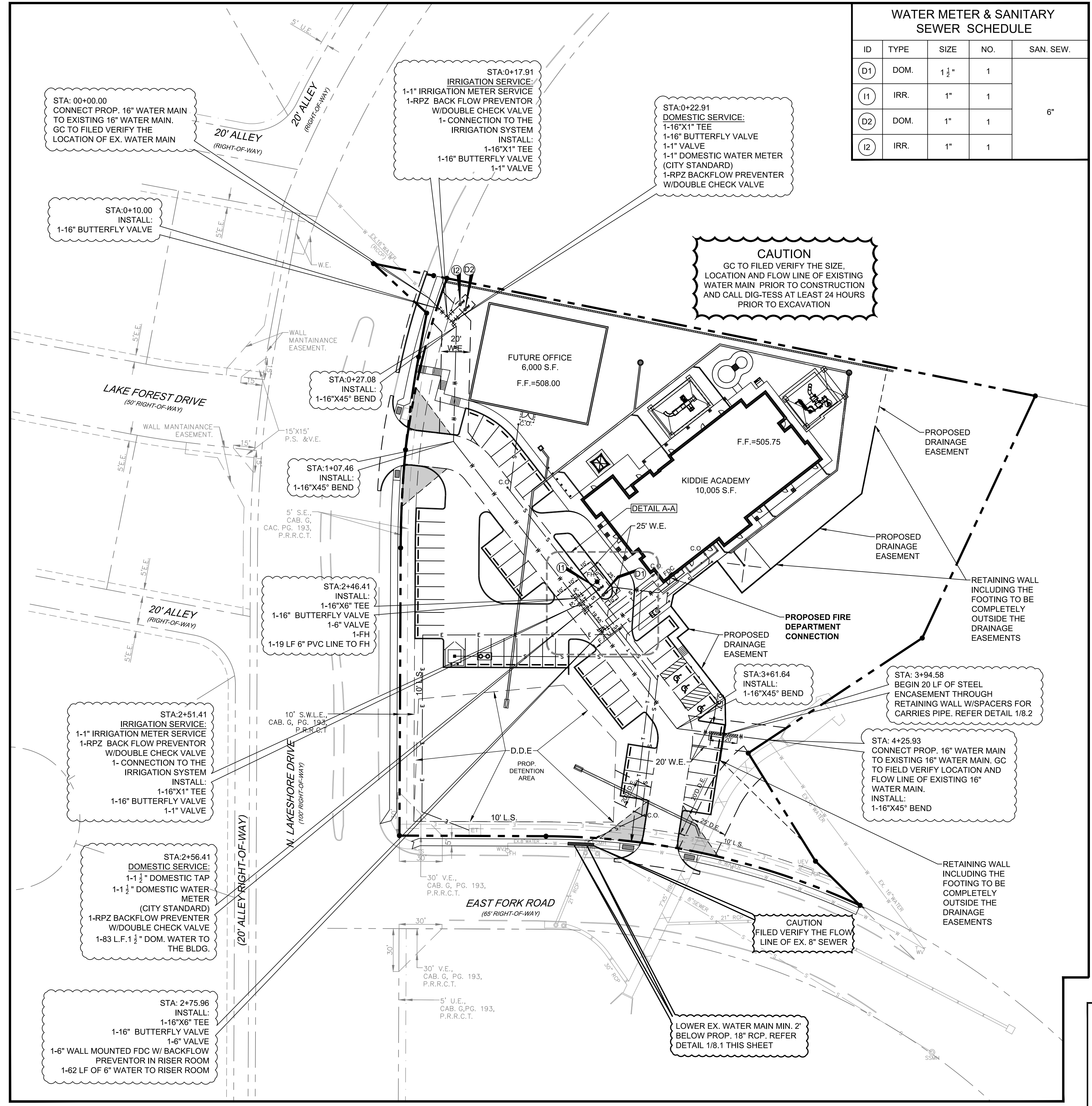


WATER METER & SANITARY SEWER SCHEDULE				
ID	TYPE	SIZE	NO.	SAN. SEW.
D1	DOM.	1 1/2"	1	6"
I1	IRR.	1"	1	
D2	DOM.	1"	1	
I2	IRR.	1"	1	

NOTE:

- FIELD VERIFY LOCATION OF EXISTING GAS, TELEPHONE AND ELECTRICAL LINES. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH SERVICE PROVIDER.
- CONTRACTOR SHALL REPLACE ANY DAMAGED STREET PAVEMENT, CURB, SIDEWALK AND ANY ABOVEGROUND OR UNDERGROUND UTILITIES FOR UTILITY INSTALLATION.

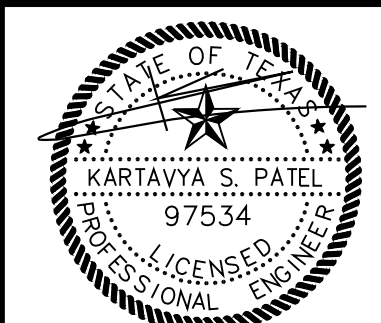
LEGEND	
PUBLIC UTILITY EASEMENT	P.U.E.
SANITARY SEWER EASEMENT	S.E.
DRAINAGE & DETENTION EASEMENT	D.E.
WATERLINE EASEMENT	W.E.
CLEAN OUT	C.O.
GAS METER	GM
ELECTRICAL TRANSFORMER	ET
FH	FH
SANITARY SEWER MANHOLE	SSMH
STORM SEWER MANHOLE	STMMH
BUILDING SET BACK	B.S.
LANDSCAPE SETBACK	L.B.
PRESSURE REDUCING VALVE	PRV
FIRE DEPARTMENT CONNECTION	F.D.C.
GAS MARKER	GMA



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RECORD DRAWING

WATER PLAN
KIDDIE ACADEMY
NEC OF N. LAKESHORE DRIVE & E. FORK ROAD
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS



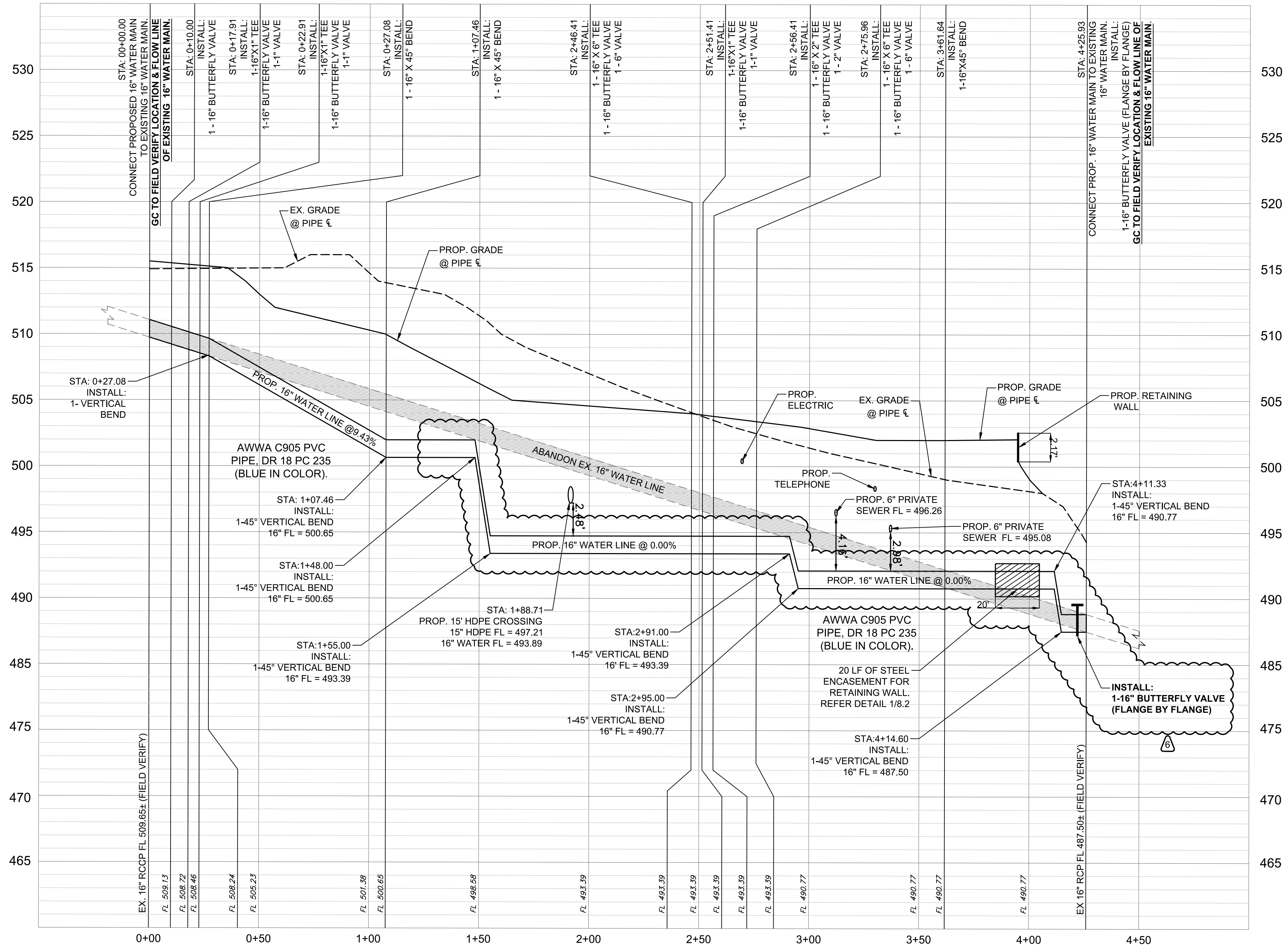
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DESIGN/DRAWN	DATE	SCALE	PROJECT NO.	SHEET NO.
KP	DS	08/23/16	028-16	8.1

TX PE FIRM #11525

12/03/2019



16" WATER LINE PROFILE
SCALE: H~1"=30' V~1"=5'

PIPE SIZE - CARRIER (DIAMETER)	PIPE SIZE - CASING (DIAMETER) (MIN.)	MINIMUM PIPE THICKNESS (INCHES)
6"	16"	1/4 0.2500
8"	18"	1/4 0.2500
10"	20"	5/16 0.3125
12" ~ 14"	24"	3/8 0.3750
16" ~ 18"	30"	7/16 0.4375
20"	36"	1/2 0.5000
24"	42"	1/2 0.5000
30"	48"	1/2 0.5000

NOTES:
 1. CASING SPACER CONFIGURATION AND SPACING SHALL BE AS SHOWN ON MANUFACTURER'S DRAWINGS FOR SPECIFIC WORK; THESE MUST BE ACCEPTABLE TO THE CITY OF ROCKWALL.
 2. CASING SPACER SHALL BE AS MANUFACTURED BY CASCADE WATERWORKS MANUFACTURING COMPANY, MODEL CCS, OR APPROVED EQUAL.

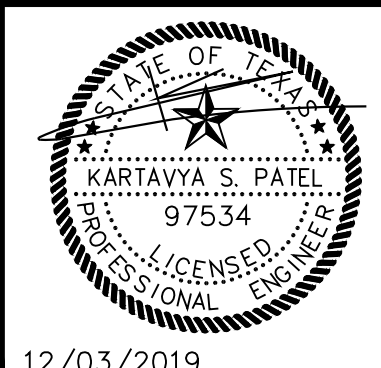
1 STEEL CASING BY BORE DETAIL
 8.2 N.T.S.

NOTE:
 GC TO FIELD VERIFY THE LOCATION AND DEPTH OF EXISTING 16" WATER MAIN BY POTHOLE BEFORE CARRYING OUT HIS OPERATIONS. GC TO CALL-DIG TEST AT LEAST 48 HOURS PRIOR TO EXCAVATION

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RECORD DRAWING

16" WATER LINE PROFILE
 KIDDIE ACADEMY
 NEC OF N. LAKESHORE DRIVE & E. FORK ROAD
 CITY OF ROCKWALL
 ROCKWALL COUNTY, TEXAS

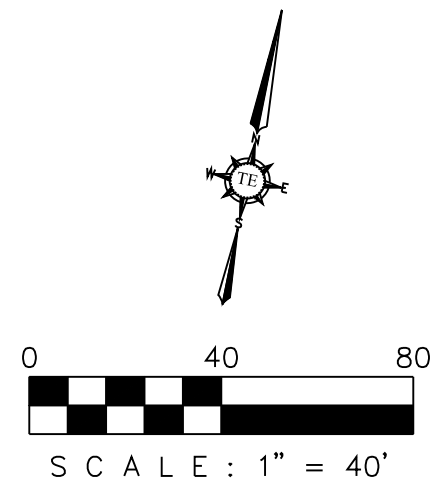


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DESIGN/DRAWN	DATE	SCALE	PROJECT NO.	SHEET NO.
KP	DS	08/23/16	SEE SCALE BAR	028-16

KIDDIE ACADEMY SITE DEVELOPMENT

2.960 ACRES OF LAND BEING A REPLAT OF LOT 1, BLOCK S OF THE PRESERVE PHASE 3, AN ADDITION TO THE CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS



EROSION & SEDIMENT CONTROLS

1. SOIL STABILIZATION PRACTICES:

(Select T = Temporary or P = Permanent, as applicable)

- | | | | |
|---|-------------------------|---|-----------------------------------|
| T | TEMPORARY SEEDING | — | PRESERVATION OF NATURAL RESOURCES |
| — | MULCHING (Hay or Straw) | — | FLEXIBLE CHANNEL LINER |
| — | BUFFER ZONES | — | RIGID CHANNEL LINER |
| P | PLANTING | — | SOIL RETENTION BLANKET |
| — | SEEDING | — | COMPOST MANUFACTURED TOPSOIL |
| P | SODDING | — | EROSION CONTROL BLANKET |

2. STRUCTURAL PRACTICES:

(Select T = Temporary or P = Permanent, as applicable)

- | | | | |
|---|-------------------|---|---|
| T | SILT FENCES | — | DIVERSION, INTERCEPTOR, OR PERIMETER DIKES |
| — | HAY BALES | — | DIVERSION, INTERCEPTOR, OR PERIMETER SWALES |
| — | ROCK FILTER DAMS | — | DIVERSION DIKE AND SWALE COMBINATIONS |
| — | PIPE SLOPE DRAINS | — | ROCK BEDDING AT CONSTRUCTION EXIT |
| — | PAVED FLUMES | — | TIMBER MATTING AT CONSTRUCTION EXIT |
| — | CHANNEL LINERS | — | STONE OUTLET STRUCTURES |
| — | SEDIMENT TRAPS | — | VELOCITY CONTROL DEVICES |
| — | SEDIMENT BASINS | P | CURBS AND GUTTERS |
| P | STORM SEWERS | — | STORM INLET SEDIMENT TRAP |
| T | INLET PROTECTION | T | CONSTRUCTION ENTRANCE |

SITE EROSION CONTROL SUMMARY

PROJECT NAME & LOCATION: DUNKIN ACADEMY
NEC OF N. LAKESHORE DRIVE @ EAST FORK ROAD
ROCKWALL, TEXAS

OWNER NAME & ADDRESS: DUNKIN ACADEMY ROCKWALL LLC
320 N. TOWN EAST BLVD
SUNNYVALE, TEXAS 75013

PROJECT DESCRIPTION: SITE GRADING OF 2.96 +/- ACRES OUT OF CONSTRUCTION OF PARKING LOT, UNDERGROUND AND ABOVE GROUND UTILITIES, & PROPOSED 13,342 SF +/- BUILDING.

SEQUENCE OF MAJOR ACTIVITIES: THE CONTRACTOR WILL SCHEDULE THE PROJECT IN A SERIES OF PHASES. IN GENERAL, THE SEQUENCE OF THESE PHASES WILL CONSIST OF 1. INSTALL EROSION CONTROL BMP 2. EARTHWORK 3. UTILITIES 4. SITE GRADING 5. TEMPORARY/PERMANENT DRIVEWAY, PARKING LOT 6. BUILDING FOUNDATION PAD 7. VERTICAL BUILDING CONSTRUCTION 8. FINALIZE UTILITIES 9. REMOVAL OF EXISTING EROSION CONTROL BMP & INSTALLATION OF PERMANENT EROSION CONTROL BMP.

SOIL DISTURBING ACTIVITIES: SOIL DISTURBING ACTIVITIES WILL INCLUDE CLEARING & GRUBBING, GRADING, TRENCHING IN PREPARATION FOR INSTALLING UTILITIES, BUILDING PAD, PARKING LOT, EROSION & SEDIMENTATION CONTROLS AND TOPSOIL WORK FOR FINAL PLANTING AND SEEDING.

PRE-DEVELOPMENT RUNOFF COEFFICIENT: 0.30
POST-DEVELOPMENT RUNOFF COEFFICIENT: 0.90
TOTAL PROJECT AREA: 2.96 ACRES
TOTAL AREA TO BE DISTURBED: 2.4 ACRES
ESTIMATED PROJECT START DATE: 5/15/2019
ESTIMATED PROJECT END DATE: 5/15/2020



EROSION CONTROL NOTES:

- EVERY SOIL DISTURBING ACTIVITY SHALL HAVE AN ACCOMPANYING EROSION CONTROL PLAN (ECP) AND EITHER CONSTRUCTION SITE NOTICE (CSN) FOR THOSE ACTIVITIES DISTURBING MORE THAN 1 BUT LESS THAN 5 ACRES, OR NOTICE OF INTENT (NOI) FOR THOSE ACTIVITIES DISTURBING 5 OR MORE ACRES INCLUDING THOSE ACTIVITIES LESS THAN 5 ACRES, BUT A PART OF A COMMON PLAN OF DEVELOPMENT TOTALING 5 OR MORE ACRES. A COPY OF THE APPROPRIATE CSN OR NOI SHALL BE PROVIDED TO THE CITY OF ROCKWALL PRIOR TO ISSUANCE OF A GRADING PERMIT. THE ECP SHALL BE PROVIDED TO CITY OF ROCKWALL'S EROSION CONTROL OFFICER (ECO) PRIOR TO GRADING.
- THE CSN OR NOI SHALL BE POSTED IN A LOCATION VIEWABLE TO THE PUBLIC UNTIL CONSTRUCTION IS COMPLETE AND NOTICE OF TERMINATION (NOT) SUBMITTED. THE STORM WATER POLLUTION PREVENTION PLAN (SWPP3) SHALL BE READILY AVAILABLE FOR REVIEW BY FEDERAL, STATE, OR LOCAL OFFICIALS.
- NO SOIL DISTURBING ACTIVITIES WILL OCCUR PRIOR TO THE SWPP3, ECP, AND ASSOCIATED BEST MANAGEMENT PRACTICES (BMP) BEING FULLY IMPLEMENTED, AND THEN INSPECTED BY CITY OF ROCKWALL'S ECO.
- THE CONTRACTOR SHALL COMPLY WITH THE CITY OF ROCKWALL'S STORM WATER ORDINANCE, THE TPDES GENERAL CONSTRUCTION PERMIT TXR150000 AND ANY OTHER STATE AND/OR LOCAL REGULATIONS.
- THE SITE SHALL BE REVIEWED BY THE OPERATOR OR HIS REPRESENTATIVE WEEKLY, AND AFTER ANY MAJOR STORM, ADJUSTMENTS/REPAIRS TO THE EROSION CONTROL MEASURES WILL BE MADE AS NEEDED. THE CONTRACTOR SHALL NOTIFY CITY OF ROCKWALL ECO OF ADJUSTMENTS/REPAIRS SUCH THAT THE ADJUSTMENTS/REPAIRS MAY BE INSPECTED AND APPROVED BY THE ECO.
- CONTRACTOR SHALL VEGETATE ALL DISTURBED AREAS IMMEDIATELY UPON COMPLETION OF GRADING ACTIVITIES. FINAL ACCEPTANCE OF A SITE SHALL BE CONTINGENT UPON VEGETATION BEING ESTABLISHED IN ALL DISTURBED AREAS, AND PROPER NOT SUBMITTED TO THE STATE. A COPY OF THE NOT SHALL BE PROVIDED TO THE CITY OF ROCKWALL.
- ALL NON-IMPERVIOUS AREAS AFTER CONSTRUCTION SHALL BE COVERED WITH SOD OR LANDSCAPED IN ACCORDANCE WITH THE LANDSCAPE DRAWINGS. ALL OTHER REMAINING AREAS SHALL BE HYDROMULCHED OR COVERED WITH CURLEX BLANKET (WHERE SHOWN OR PROVIDE MAP SHOWING) AND MAINTAINED UNTIL ESTABLISHED.
- TEMPORARY STONE STABILIZED CONSTRUCTION ENTRANCE SHALL HAVE THE FOLLOWING MINIMUM DIMENSIONS: 24' WIDE X 50' LONG X 12" DEEP. (4"-8" OPEN GRADED ROCK). PLACE FILTER FABRIC UNDER STONE. NO CRUSHED OR RECYCLED CONCRETE ALLOWED.
- THE STABILIZED CONSTRUCTION ENTRANCE IS TO BE USED AS A VEHICLE WASH DOWN AREA FOR DEBRIS AND SOIL REMOVAL PRIOR TO EXITING THE SITE. THIS STABILIZED ENTRANCE SHALL BE TOP DRESSED WITH ADDITIONAL STONE AS NECESSARY. LOCATION OF STABILIZED ENTRANCE MAY BE MODIFIED IF APPROVED BY THE CITY OF ROCKWALL AND THE DESIGN ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE, AS THE ENTITY EXERCISING OPERATIONAL CONTROL, FOR ALL PERMITTING AS REQUIRED BY THE EPATCEQ. THIS INCLUDES, BUT IS NOT LIMITED TO, PREPARATION OF NOI AND NOT PAYMENT OF ALL ASSOCIATED FEES.
- 75% TO 80% OF ALL DISTURBED AREA TO HAVE 1" STAND OF GRASS (NOT WEEDS) PRIOR TO CITY'S ACCEPTANCE.
- ALL CITY RIGHT-OF-WAY TO BE SODDED PRIOR TO CITY'S ACCEPTANCE.

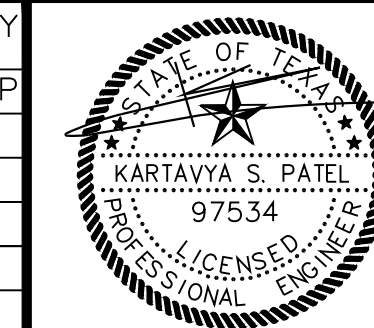
LEGEND

- x — SILT FENCE
- [Pattern] CONSTRUCTION ENTRANCE (50' X 24')
- [Pattern] CONCRETE WASHOUT AREA (30' X 20')
- INLET PROTECTION

AS-BUILT DRAWINGS:
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KARTAVYA S. PATEL, P.E. NO. 97534

NO.	DATE	DESCRIPTION	BY
1	12/03/2019	AS-BUILT RECORD DRAWINGS	KP



12/03/2019

RECORD DRAWING

EROSION CONTROL PLAN
KIDDIE ACADEMY
NEC OF N. LAKESHORE DRIVE & E. FORK ROAD
CITY OF ROCKWALL
ROCKWALL COUNTY, TEXAS



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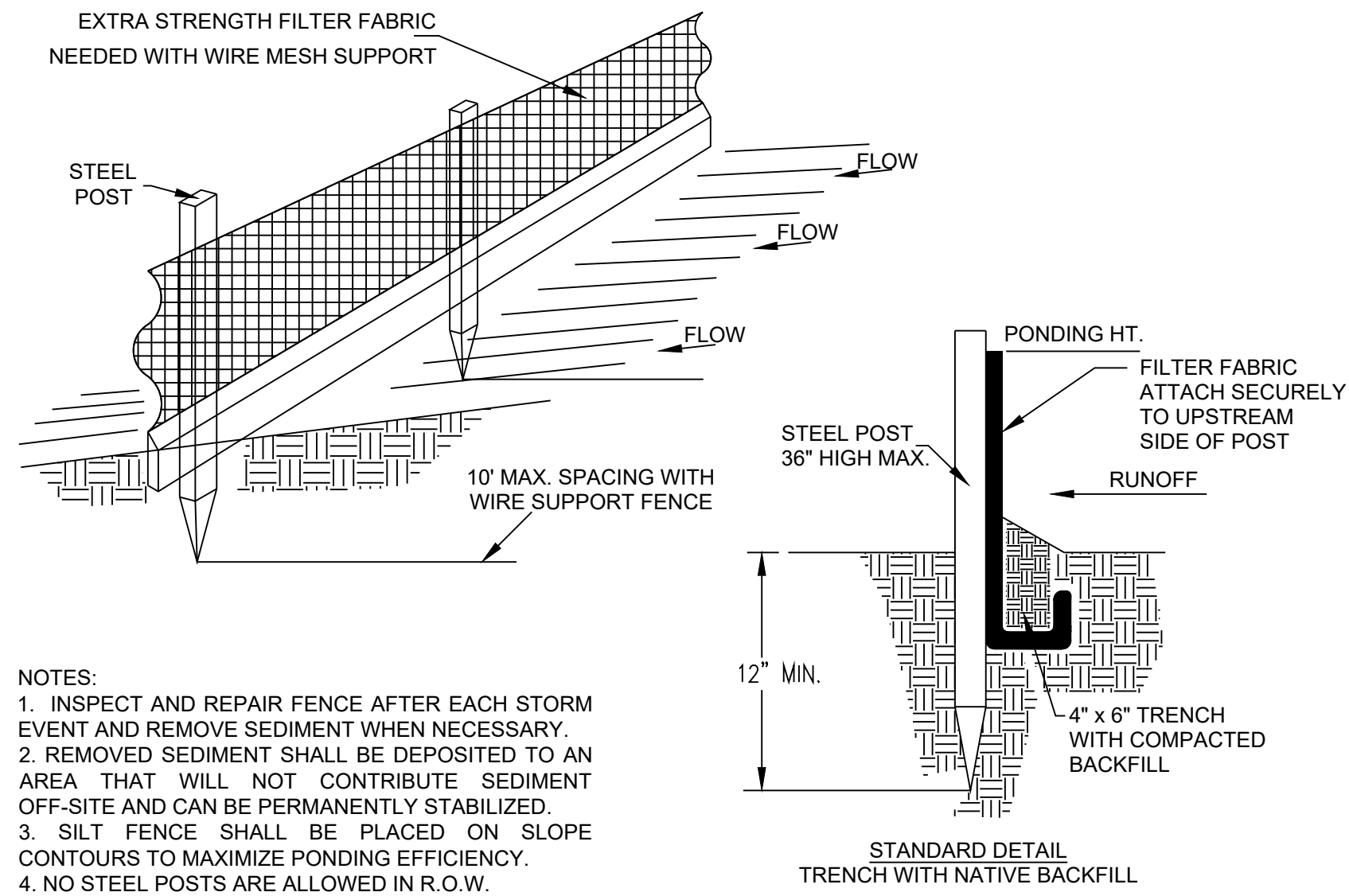
Planning | Civil Engineering | Construction Management

DESIGN/DRAWN	DATE	SCALE	PROJECT NO.	SHEET NO.
KP DS	08/23/16	SEE SCALE BAR	028-16	9

TX PE FIRM #11525

KIDDIE ACADEMY SITE DEVELOPMENT

2.960 ACRES OF LAND BEING A REPLAT OF LOT 1, BLOCK S OF THE PRESERVE PHASE 3, AN ADDITION TO THE CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS



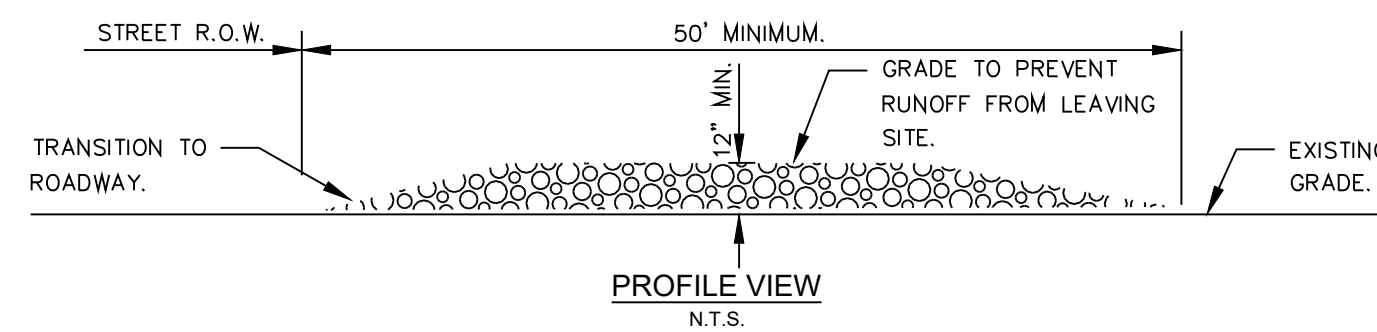
- NOTES:
1. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY.
 2. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 3. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
 4. NO STEEL POSTS ARE ALLOWED IN R.O.W.

1 SILT FENCE DETAILS
9.1 N.T.S.

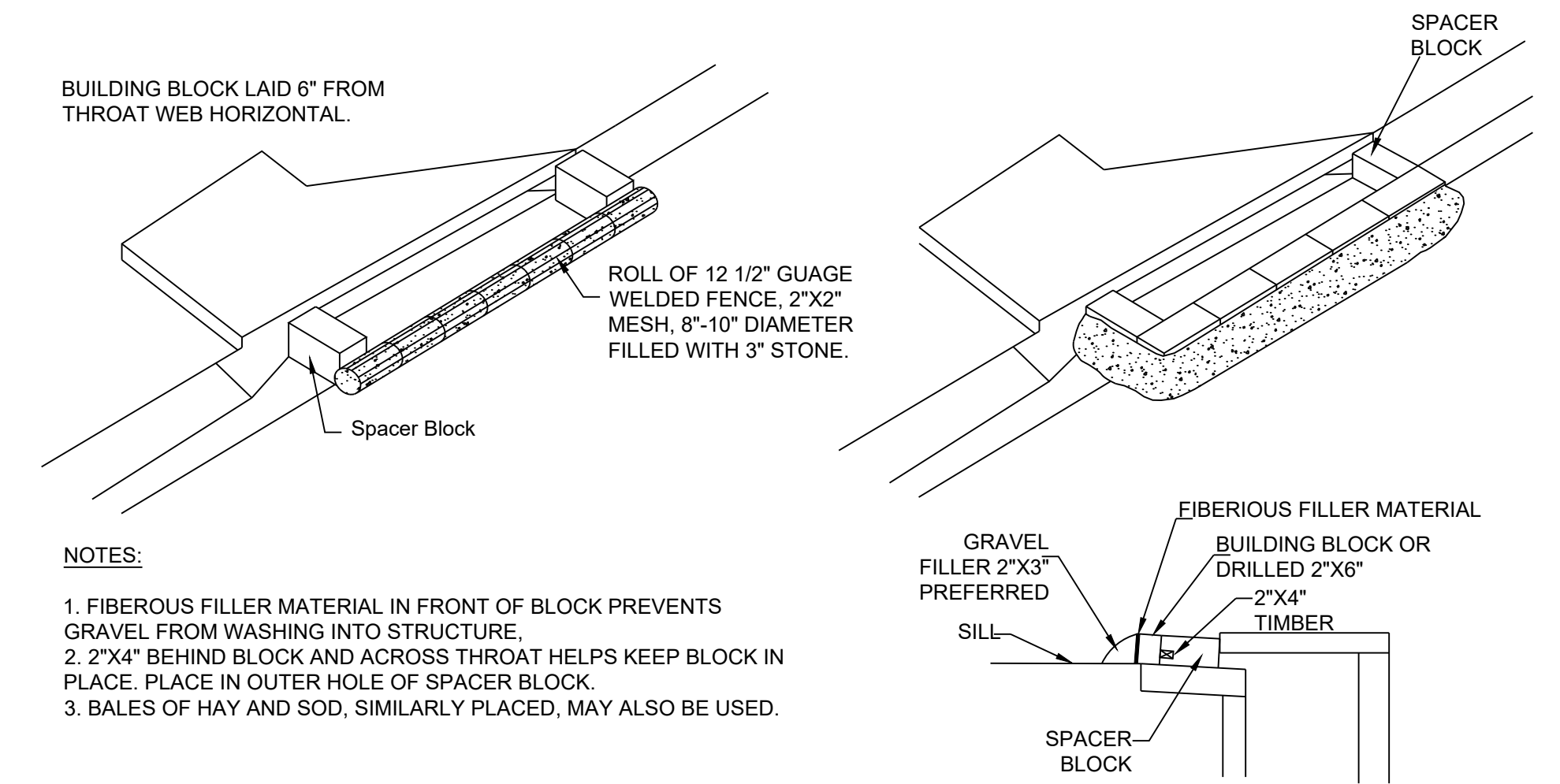
STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES

1. STABILIZED CONSTRUCTION ENTRANCES SHALL CONFORM TO CITY OF ROCKWALL EROSION CONTROL CRITERIA MANUAL.
2. STONE SIZE SHALL BE 4" - 6" OPEN GRADED ROCK. NO RECYCLED/CRUSHED CONCRETE ALLOWED.
3. THICKNESS OF CRUSHED STONE PAD TO BE NOT LESS THAN 12".
4. LENGTH SHALL BE A MINIMUM OF 50' FROM ACTUAL ROADWAY, AND WIDTH NOT LESS THAN FULL WIDTH OF INGRESS/EGRESS.
5. ENTRANCE SHALL BE PROPERLY GRADED TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY BY CONTRACTOR. AS NECESSARY, WHEELS MUST BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT OF WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

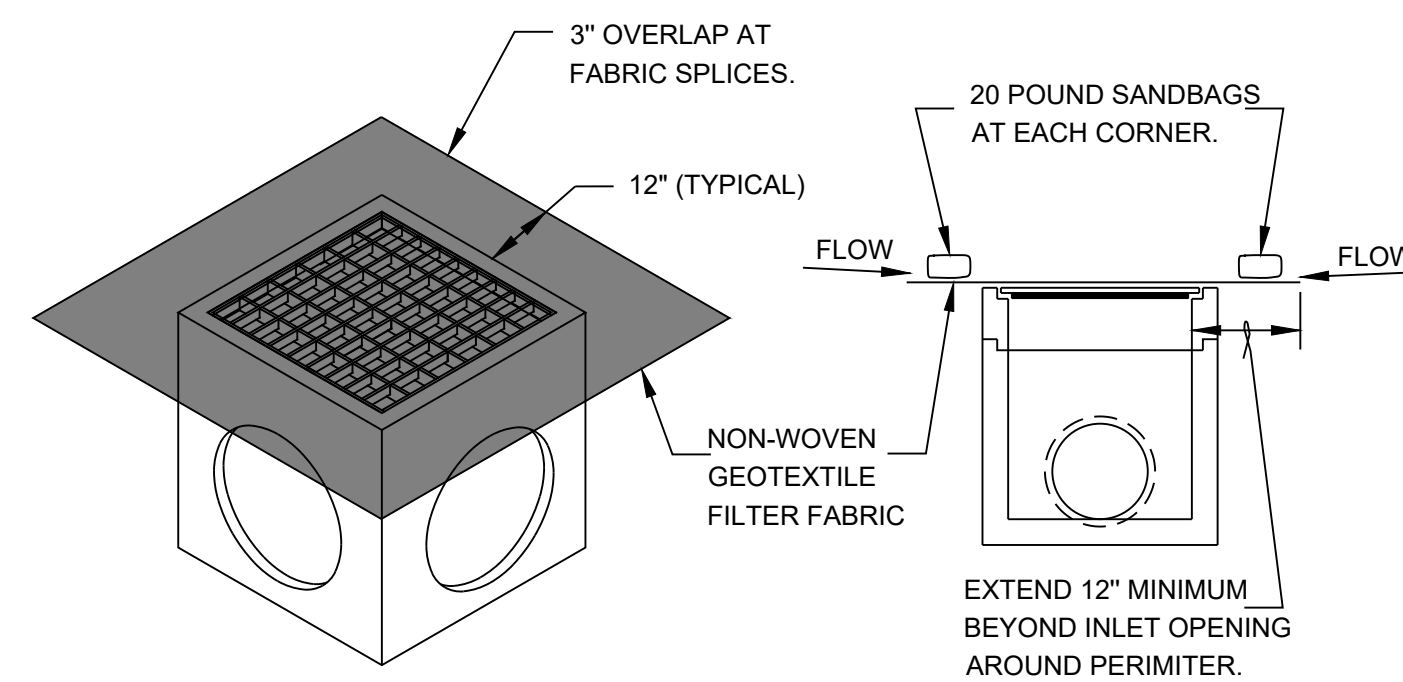


2 CONSTRUCTION ENTRANCE DETAILS
9.1 N.T.S.



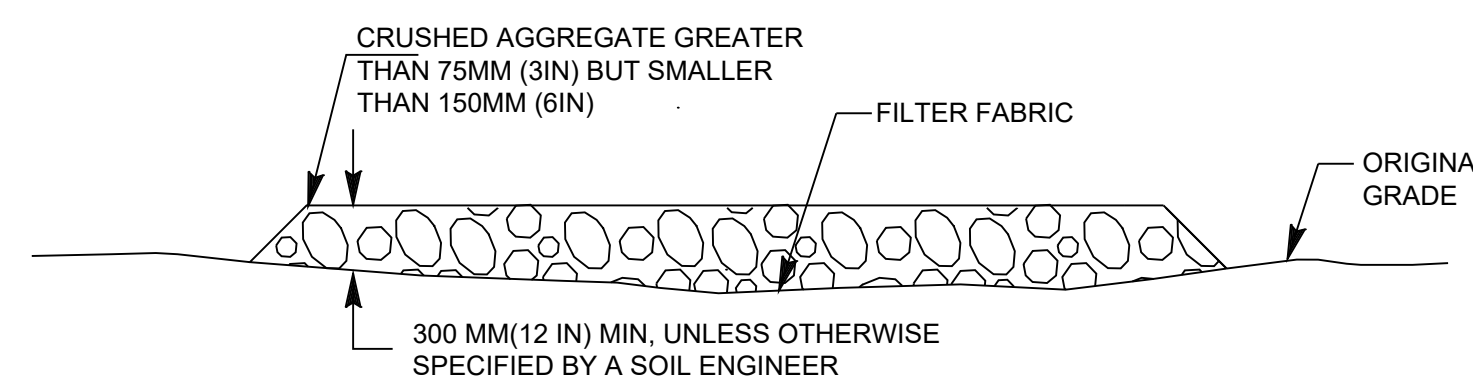
- NOTES:
1. FIBERIOUS FILLER MATERIAL IN FRONT OF BLOCK PREVENTS GRAVEL FROM WASHING INTO STRUCTURE.
 2. 2"X4" BEHIND BLOCK AND ACROSS THROAT HELPS KEEP BLOCK IN PLACE. PLACE IN OUTER HOLE OF SPACER BLOCK.
 3. BALES OF HAY AND SOD, SIMILARLY PLACED, MAY ALSO BE USED.

3 CURB INLET PROTECTION DETAILS
9.1 N.T.S.



- NOTES:
1. DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
 2. CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY CLEAN THE INLET PROTECTION IF EXCESSIVE PONDING OCCURS.
 3. INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

4 AREA/GRATE INLET PROTECTION DETAILS
9.1 N.T.S.

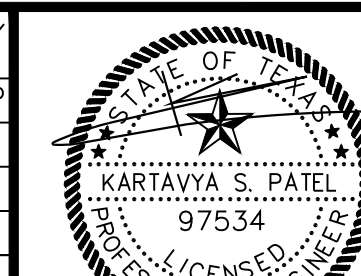


5 CONCRETE WASHOUT AREA
9.1 N.T.S.

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RECORD DRAWING

EROSION CONTROL DETAILS
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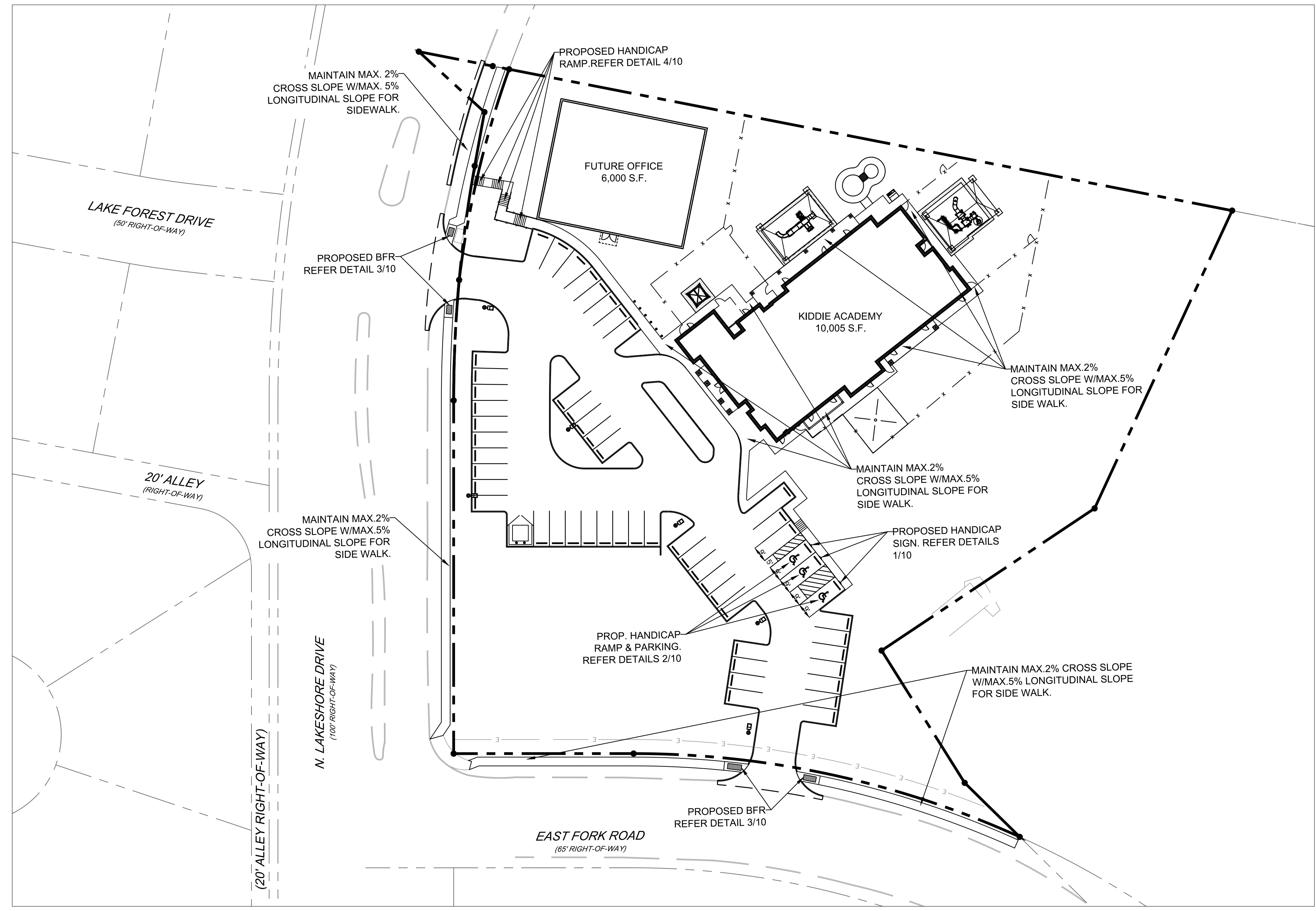
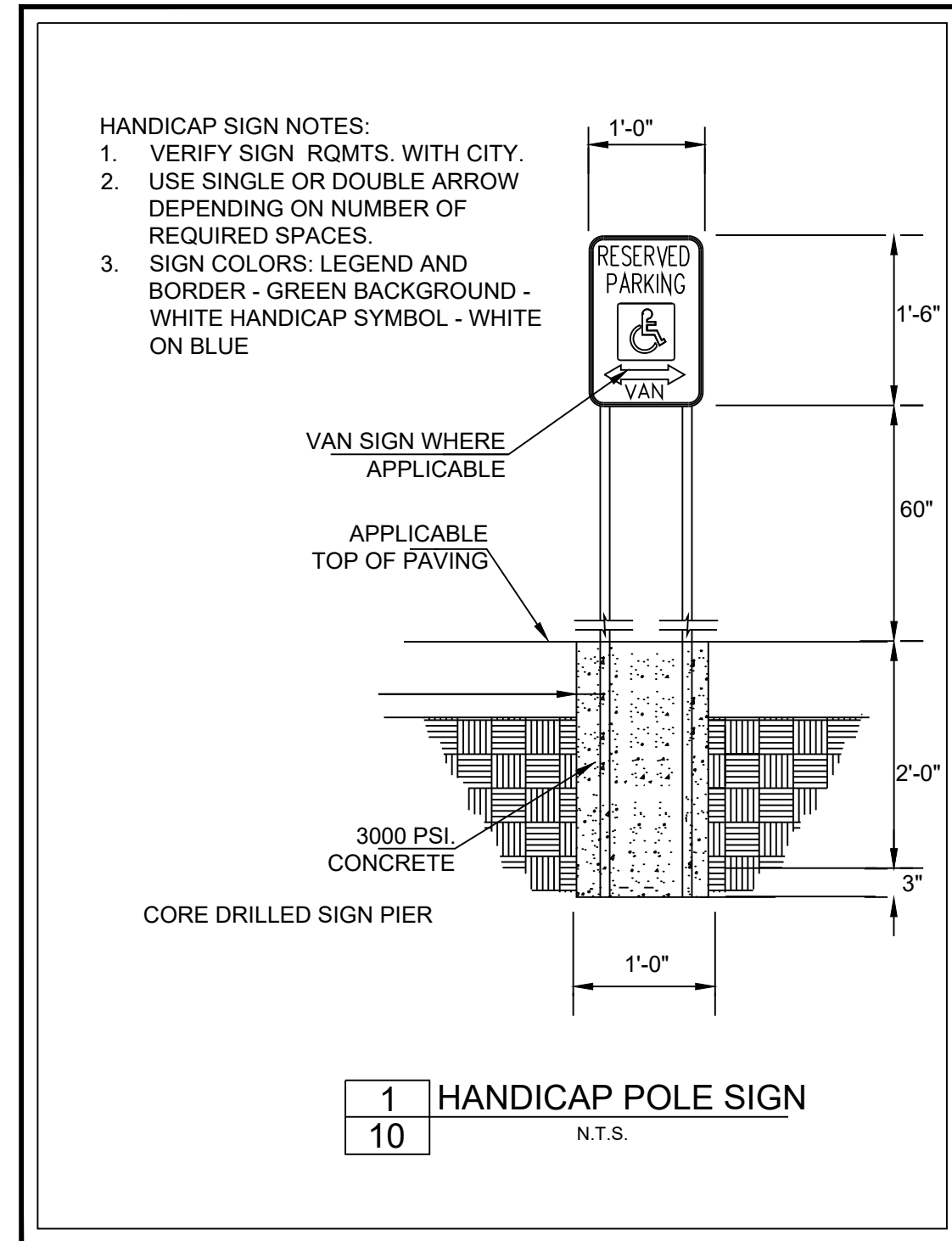
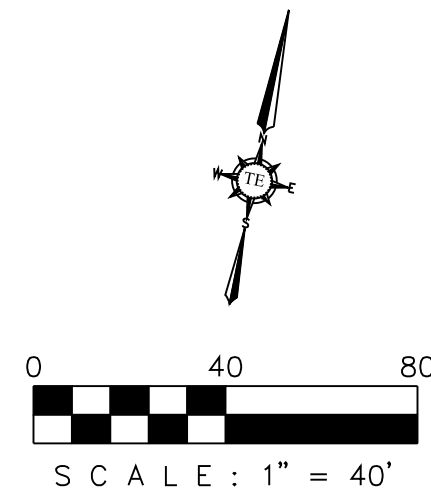
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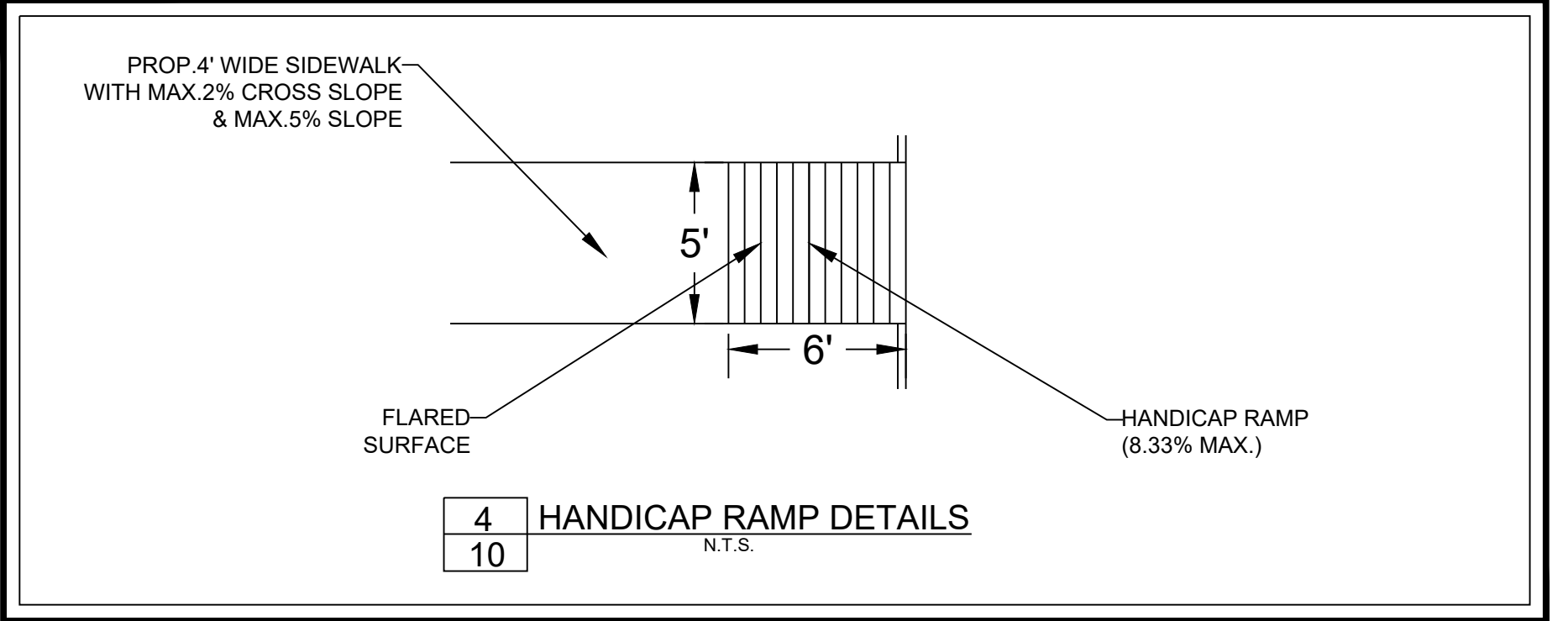
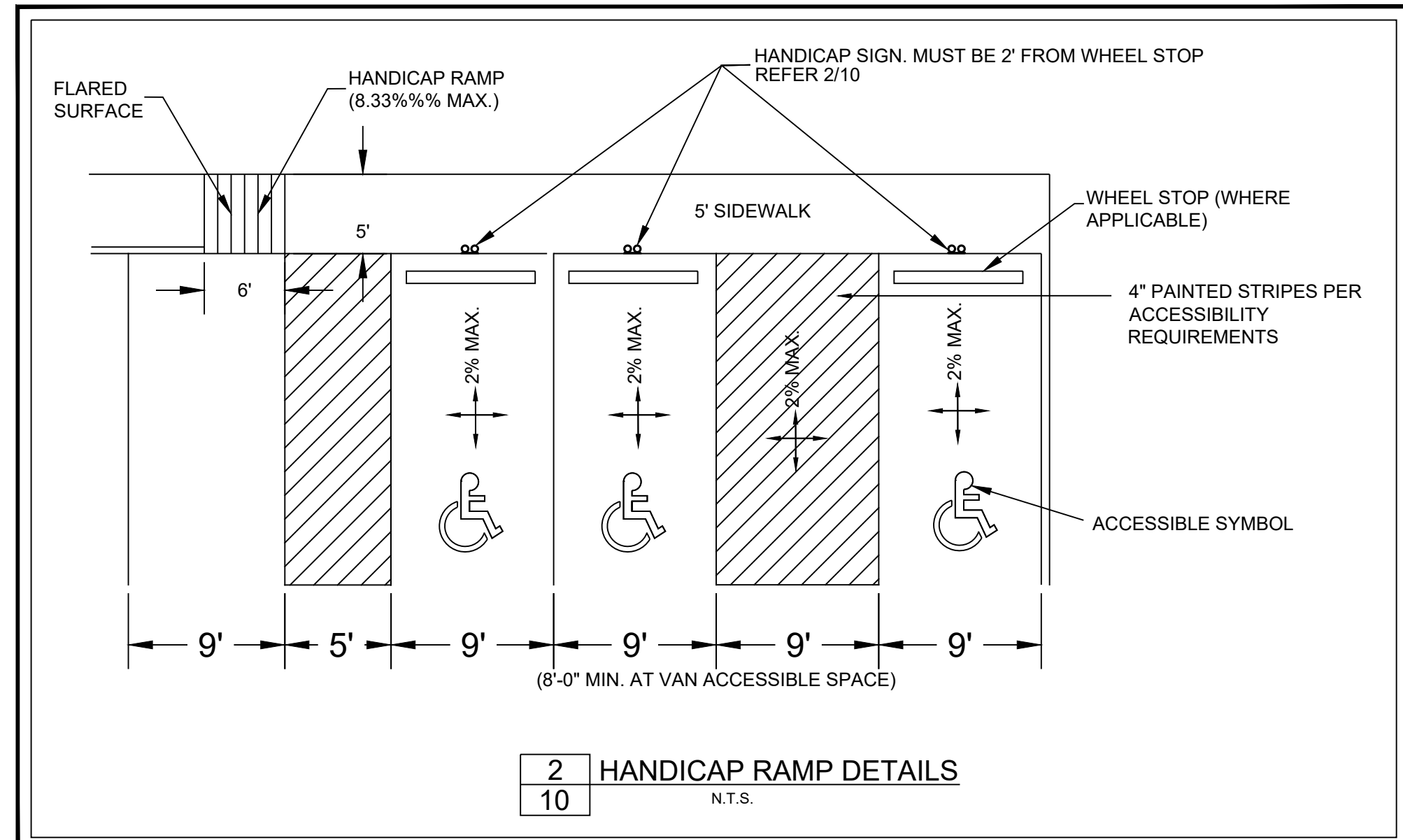
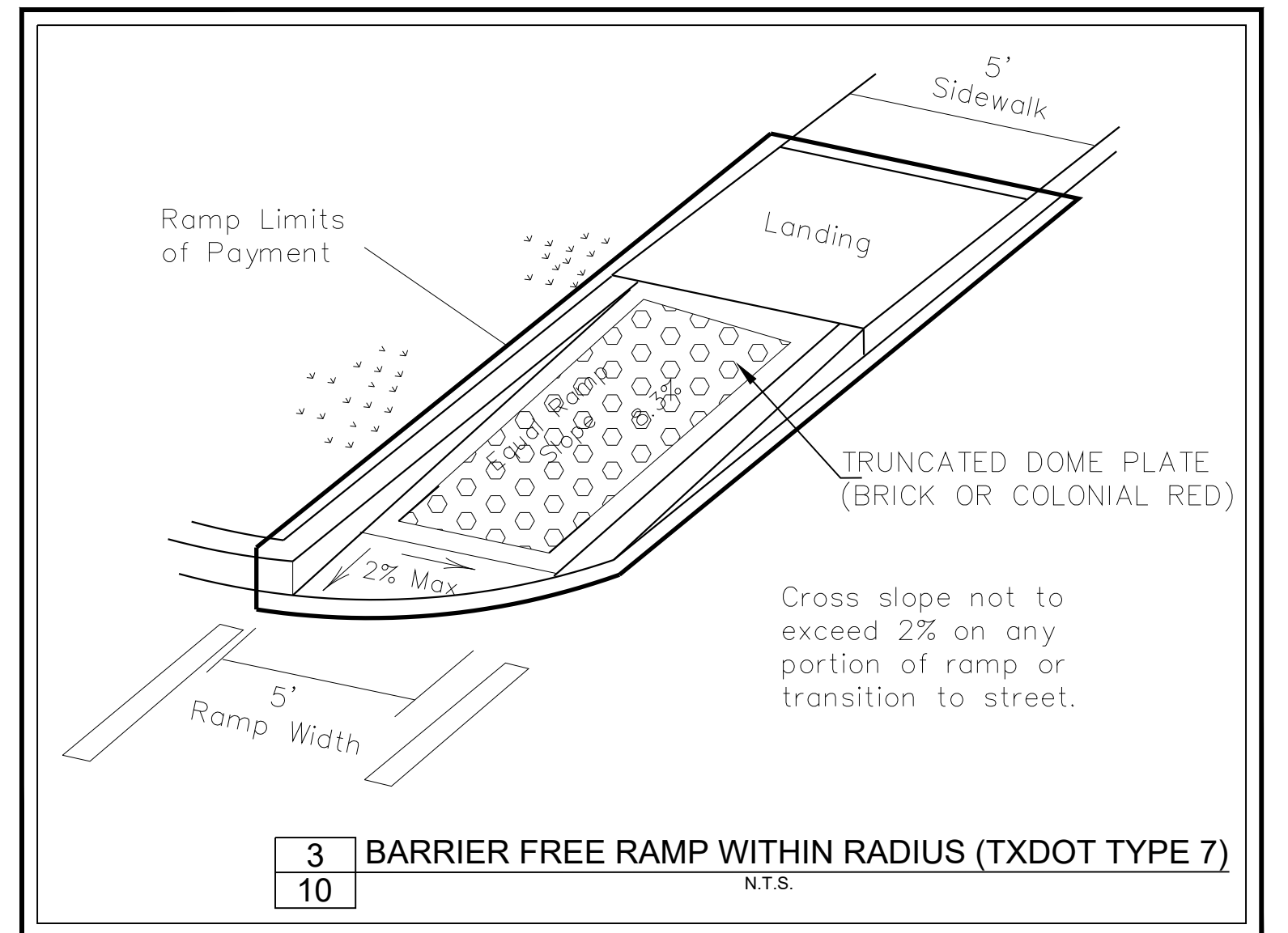
TX PE FIRM #11525

KIDDIE ACADEMY SITE DEVELOPMENT

2.960 ACRES OF LAND BEING A REPLAT OF LOT 1, BLOCK S OF THE PRESERVE PHASE 3, AN ADDITION TO THE CITY OF ROCKWALL, ROCKWALL COUNTY, TEXAS



- CONSTRUCTION NOTES:**
1. MAXIMUM SLOPE OF CURB RAMP SHALL BE 1:12 (8.33%) - 5% RECOMMENDED.
 2. MAXIMUM SLOPE OF THE CURB RAMP'S "FLARED SIDES" SHALL BE (8.33% MAX).
 3. SLOPE AND CROSS-SLOPE OF A SIDEWALK LEADING INTO A CURB RAMP'S SYSTEM SHALL BE A MAXIMUM OF 1:20 (5%) AND 2% CROSS-SLOPE.
 4. MAXIMUM SLOPE OF A HANDICAPPED ACCESSIBLE ROUTE ALONG A SIDEWALK LEADING INTO A CURB RAMP, BEFORE IT MUST BE CONSIDERED A RAMP IS 1:20 (5%) AND 2% CROSS SLOPE.
 5. ALL SLOPED SURFACES AT CURB RAMP SYSTEMS MUST HAVE A "SIGNIFICANT COLOR CONTRAST" FOR THE SEEING IMPAIRED. THEREFORE ALL SUCH SLOPES MUST HAVE "INTEGRAL COLOR IN CONCRETE" OR "STAINED" (SCOFFIELD), COMPARED TO THE ADJACENT "FLAT" SIDEWALK/PAVING SURFACE.
 6. SLOPED CURB-RAMP SURFACE TO HAVE TEXTURE (IE-FORMED/SAWCUT GROVES 3/4" WIDE X 1/4" DEEP @ 2" ON-CENTER) FORMED PERPENDICULAR TO PATH OF TRAVEL FOR THE BLIND TO FEEL TEXTURE BENEATH THEIR FEET & FOR WHEELCHAIR TRACTION - ARRANGED SO WATER WILL NOT ACCUMULATE.
 7. MAXIMUM SLOPE AND CROSS-SLOPE OF HANDICAPPED ACCESSIBLE PARKING SPACE & ADJACENT ACCESS AISLE IS 1:50 (2%) IN ANY DIRECTION.



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RECORD DRAWING

ADA PLAN
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