

# Midlothian Independent School District Parking Lot to Serve Randall Hill Support Center



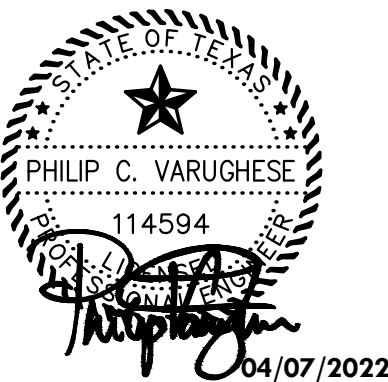
**SUPERINTENDENT**  
**DR. JO ANN FEY**



**Location Map**  
N.T.S.

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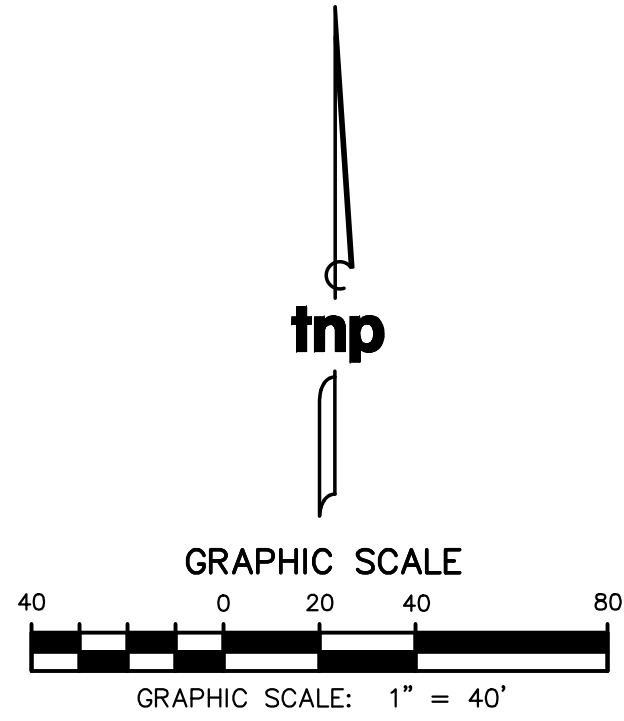


**April 2022**



BM #1: BOX CUT ON NORTHEASTERLY EDGE OF A CONCRETE DRIVE IN THE MID POINT +/- OF THE RADIUS AND 80' +/- NORTHEAST OF THE NORTHWEST CORNER OF THE RANDALL HILL SUPPORT CENTER. (ELEV=739.55')

BM #2: BOX CUT ON SOUTHEAST CORNER OF A CONCRETE PARKING LOT 56' +/- NORTH OF THE NORTH EDGE OF PAVEMENT OF E. AVENUE EAST AND 44' +/- SOUTH OF THE SOUTHWEST CORNER OF THE LAURA JENKINS CHILD CARE CENTER. (ELEV=747.39')



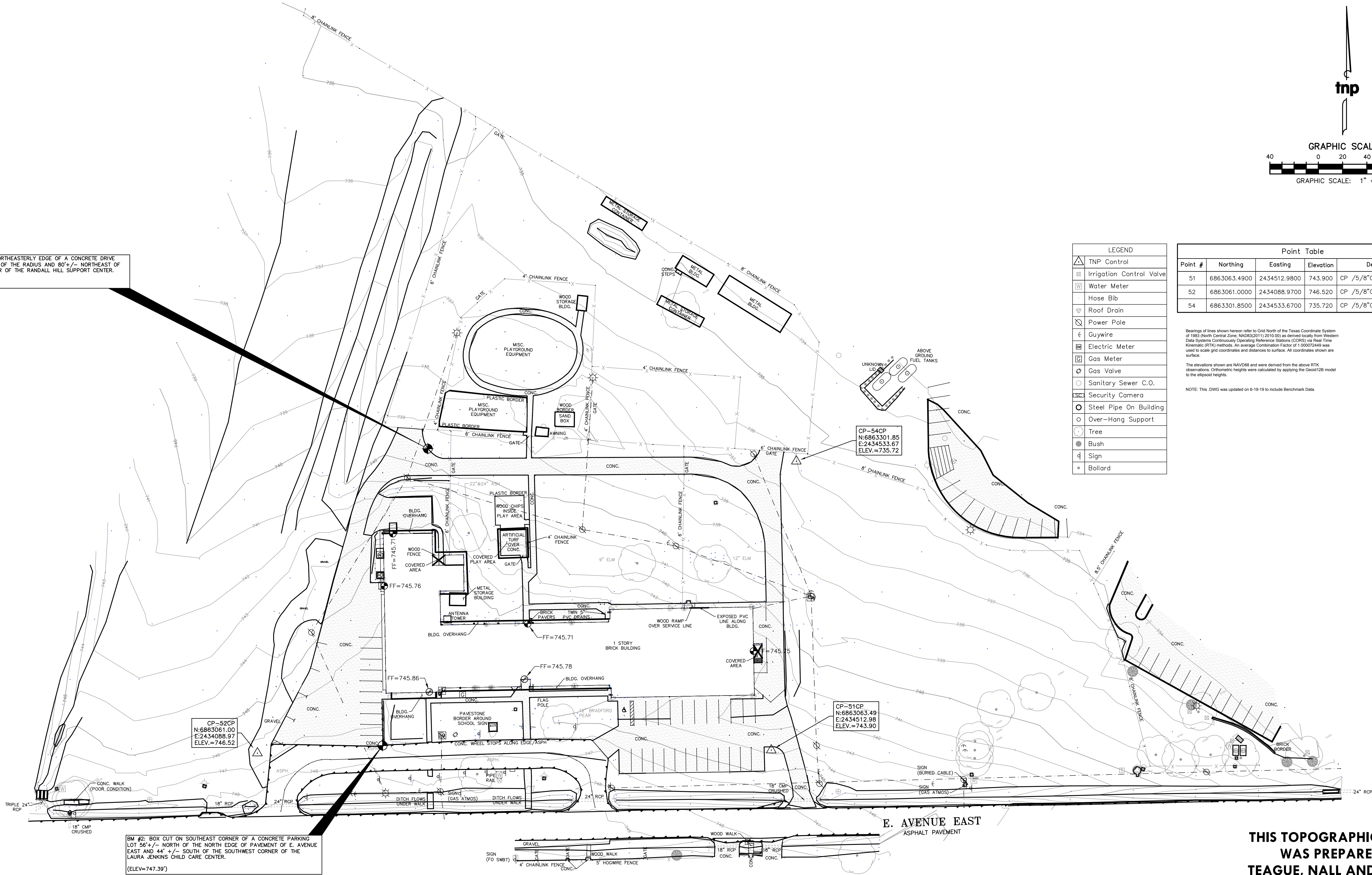
LEGEND	
	TNP Control
	Irrigation Control Valve
	Water Meter
	Hose Bib
	Roof Drain
	Power Pole
	Guywire
	Electric Meter
	Gas Meter
	Gas Valve
	Sanitary Sewer C.O.
	Security Camera
	Steel Pipe On Building
	Over-Hang Support
	Tree
	Bush
	Sign
	Bollard

Point Table				
Point #	Northing	Easting	Elevation	Description
51	6863063.4900	2434512.9800	743.900	CP /5/8"CIRS TNP RANDOM
52	6863061.0000	2434088.9700	746.520	CP /5/8"CIRS TNP RANDOM
54	6863301.8500	2434533.6700	735.720	CP /5/8"CIRS TNP RANDOM

Bearings of lines shown hereon refer to Grid North of the Texas Coordinate System of 1983 (North Central Zone: NAD83(2011)2010.00) as derived locally from Western Data Systems Continuously Operating Reference Stations (CORS) via Real Time Kinematic (RTK) methods. An average Combination Factor of 1.00072449 was used to scale grid coordinates and distances to surface. All coordinates shown are surface.

The elevations shown are NAVD83 and were derived from the above RTK observations. Orthometric heights were calculated by applying the Geoid12B model to the ellipsoid heights.

NOTE: This DWG was updated on 6-19-19 to include Benchmark Data.




THIS TOPOGRAPHIC SURVEY  
WAS PREPARED BY  
TEAGUE, NALL AND PERKINS  
FEBRUARY 18, 2020

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**MIDLOTHIAN ISD**  
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**teague nall & perkins**

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INFORMATION ONLY

City of Midlothian, Texas
Parking Lot to Serve
<b>Randall Hill Support Center</b>
<b>EXISTING TOPOGRAPHIC PLAN</b>

tnp project MLT22049
sheet
<b>C1.01</b>



SPECIAL NOTES:  
1. QUALITY LEVEL D GAS WAS UNTRACEABLE  
AND DRAWN IN PER FIELD SKETCHES.

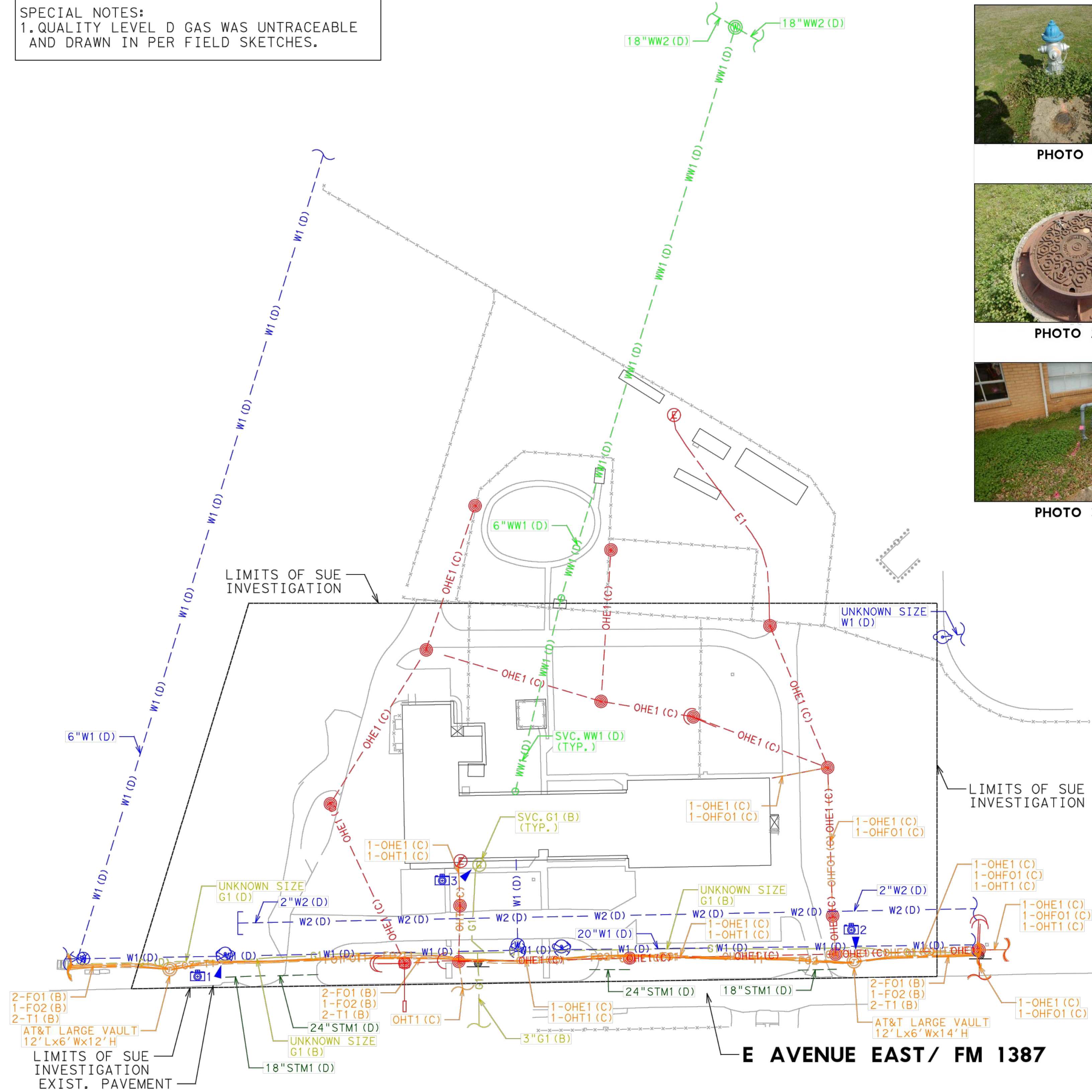


PHOTO 1
























































**PHOTO 2**



PHOTO 3

**LINESTYLE LEGEND**

ELECTRIC -----E1-----Private	GAS -----G1-----Atmos
ELECTRIC -----E1(C)-----Private	GAS -----G1(C)-----Private
ELECTRIC -----E1(C)-----Private	GAS -----G1(C)-----Private
ELECTRIC -----E1(C)-----Private	GAS -----G1(C)-----Private
OVERHEAD ELECTRIC -----OH1(C)-----OH1(C)-Over	WATER -----W1-----City of Midlothian
FIBER OPTIC -----FO1-----AT&T	WATER -----W1(C)-----City of Midlothian
FIBER OPTIC -----FO1(C)-----FO1(C)-AT&T	WATER -----W1(C)-----City of Midlothian
FIBER OPTIC -----FO1(C)-----FO1(C)-AT&T	WATER -----W2-----Private
FIBER OPTIC -----FO2-----UPN	WATER -----W2(C)-----Private
FIBER OPTIC -----FO2(C)-----FO2(C)-UPN	WATER -----W2(C)-----Private
FIBER OPTIC -----FO2(C)-----FO2(C)-UPN	WASTEWATER -----W1-----Private (Midlothian 150)
TELEPHONE -----T1-----AT&T	WASTEWATER -----W1(C)-----Private (Midlothian 150)
TELEPHONE -----T1(C)-----T1(C)-AT&T	WASTEWATER -----W1(C)-----Private (Midlothian 150)
TELEPHONE -----T1(C)-----T1(C)-AT&T	WASTEWATER -----W2-----TRA
OVERHEAD FIBER OPTIC -----OHFO1(C)-----OHFO1(C)-AT&T	WASTEWATER -----W2(C)-----TRA
OVERHEAD TELEPHONE -----OHT1(C)-----OHT1(C)-AT&T	WASTEWATER -----W2(C)-----TRA
	STORM SEWER -----STM1-----City of Midlothian
	STORM SEWER -----STM1(C)-----City of Midlothian
	STORM SEWER -----STM1(C)-----City of Midlothian

	WATER VENT PIPE		CATV PEDESTAL		SIGNAL CONTROL PANEL		WATER MANHOLE
	FIRE HYDRANT		CATV SERVICE BOX		POWER POLE		WATER METER
	WATER VALVE BOX		TELEPHONE MANHOLE		POWER POLE WITH RISER		WATER VALVE
	CATHODIC PROTECTION		TELEPHONE PEDESTAL		ILLUMINATION POLE		ELECTRIC PEDESTAL
	PHOTO TAKEN HERE		TELEPHONE POLE		GUY ANCHOR		ELECTRIC MANHOLE
	WASTEWATER MANHOLE		TELEPHONE HAND HOLE		GUY POLE DEADMAN		ELECTRIC POLE
	SEWER CLEAN OUT		TELEPHONE JUNCTION BOX		SOLAR PANEL		ELECTRIC PULLBOX
	STORM MANHOLE		TELEPHONE REPEATER		TRAFFIC SIGNAL BOX		HIGH MAST LIGHTING TOWER
	STORM SEWER INLET		FIBER OPTIC HAND HOLE		STREET SIGN		ELECTRICAL PEDESTAL
	STORM CLEAN OUT		FIBER OPTIC JUNCTION BOX		TRAFFIC SIGNAL POLE		ELECTRIC TRANSFORMER
	GAS MANHOLE		FIBER OPTIC MARKER POST		GENERIC MANHOLE		TRAFFIC CAMERA
	GAS METER		RAILROAD SIGNAL		LEVEL "A" TEST HOLE		LUMINAIRE STANDARD
	GAS VALVE		TOWER		CONTROL POINT		
	GAS TEST STATION				TRAFFIC SIGNAL PEDESTAL		

## GENERAL NOTES

SIZE INFORMATION SHOWN IS TAKEN FROM AVAILABLE UTILITY RECORDS.

UTILITY QUALITY LEVEL: Aa

PRECISE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES OBTAINED BY THE ACTUAL EXPOSURE

OR VERIFICATION OF PREVIOUSLY EXPOSED AND SURVEYED UTILITIES) AND SUBSEQUENT MEASUREMENT OF SUBSURFACE UTILITIES, USUALLY AT A SPECIFIC POINT.

UTILITY QUALITY LEVEL: Bb

INFORMATION OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO DETERMINE THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. DATA IS NOT REPRODUCIBLE BY SURFACE GEOPHYSICAL AT ANY POINT OF THE DEPICTION. THIS INFORMATION IS SUVED TO APPLICABLE TOLERANCES DEFINED BY THE PROJECT AND REDUCED TO PLAN DOCUMENTS.

UTILITY QUALITY LEVEL: Cc

INFORMATION OBTAINED BY SURVEYING AND PLOTTING VISIBLE ABOVE-GROUND UTILITY FEATURES AND BY USING PROFESSIONAL JUDGMENT IN CORRELATING THIS INFORMATION TO QUALITY LEVEL D INFORMATION.

UTILITY QUALITY LEVEL: Dd

INFORMATION DERIVED FROM EXISTING RECORDS OR ORAL RECOLLECTIONS.

# SURVEY CONTROL INFORMATION

REFER TO EXISTING TOPOGRAPHY PLAN ON SHEET C1.01 FOR SURVEY CONTROL INFORMATION

QUALITY LEVEL LEGEND	
1	Very Good
2	Good
3	Fair
4	Poor
5	Very Poor

_____ WW1 _____	QUALITY LEVEL B
_____ WW1 (C) _____ WW1 (C) _____	QUALITY LEVEL C
_____ WW1 (D) _____ WW1 (D) _____	QUALITY LEVEL D

CONTACT LIST

COMPANY	UTILITY COORDINATOR	PHONE	E-mail	ADDRESS
AT&T	Gary Tillery	817-338-6302	<a href="mailto:91213@aol.com">91213@aol.com</a>	
Atmos			<a href="mailto:Map.Requests@atmosenergy.com">Map.Requests@atmosenergy.com</a>	
Oncor	Matt Myrick	817-215-6565	<a href="mailto:DistributionGIS@oncor.com">DistributionGIS@oncor.com</a>	15 W 7th Street, Suite 1017 Fort Worth, Texas 76102
UPN	Nick Spent		<a href="mailto:UPN@gsunfiber.com">UPN@gsunfiber.com</a>	
Midcity Mid	Scott Sparks	817-703-7456		
City of Midlothian		972-775-1481	<a href="mailto:chrisnewman@midlothian.tx.us">chrisnewman@midlothian.tx.us</a>	104 W Ave F, Midlothian, TX 76065

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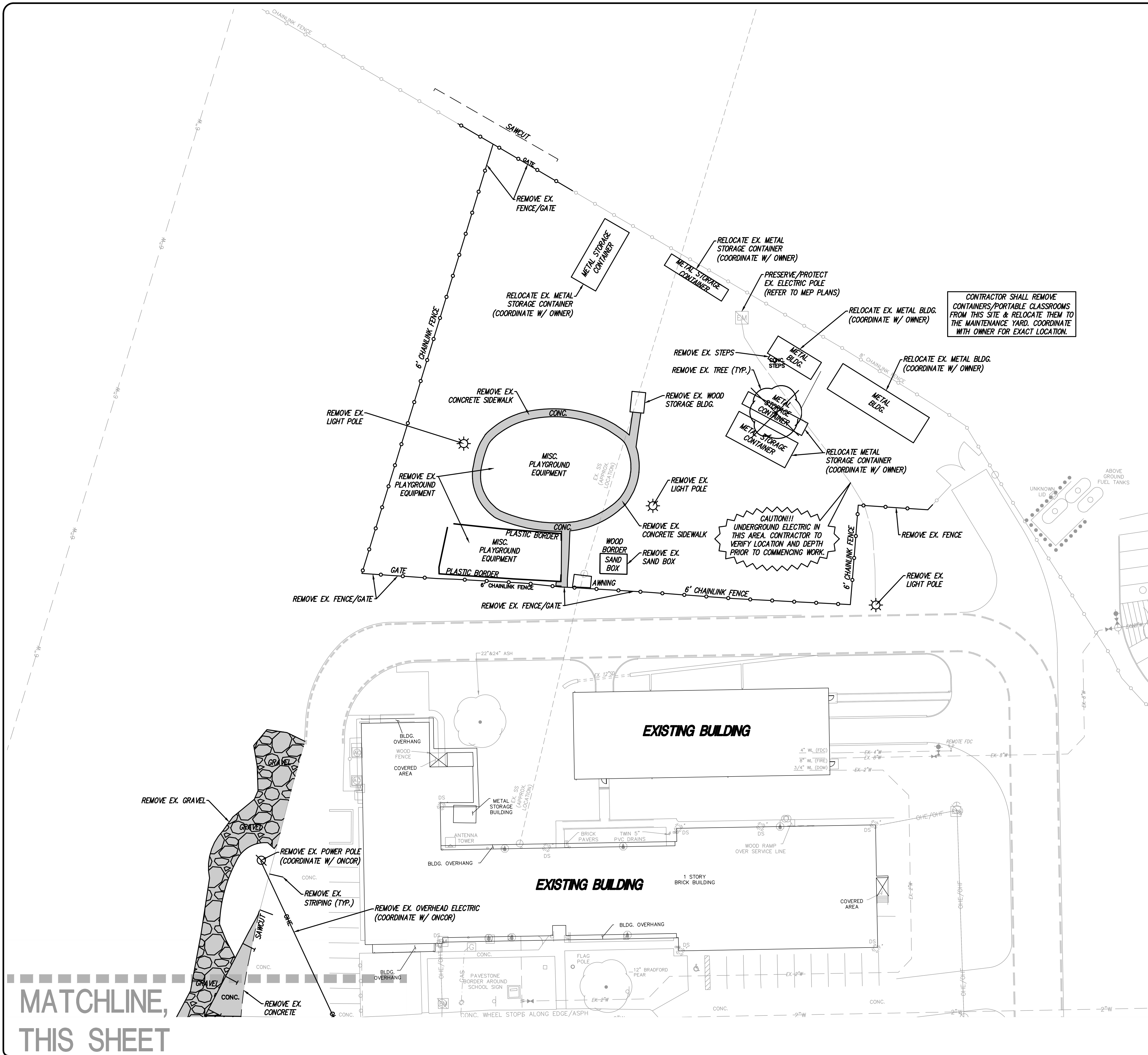
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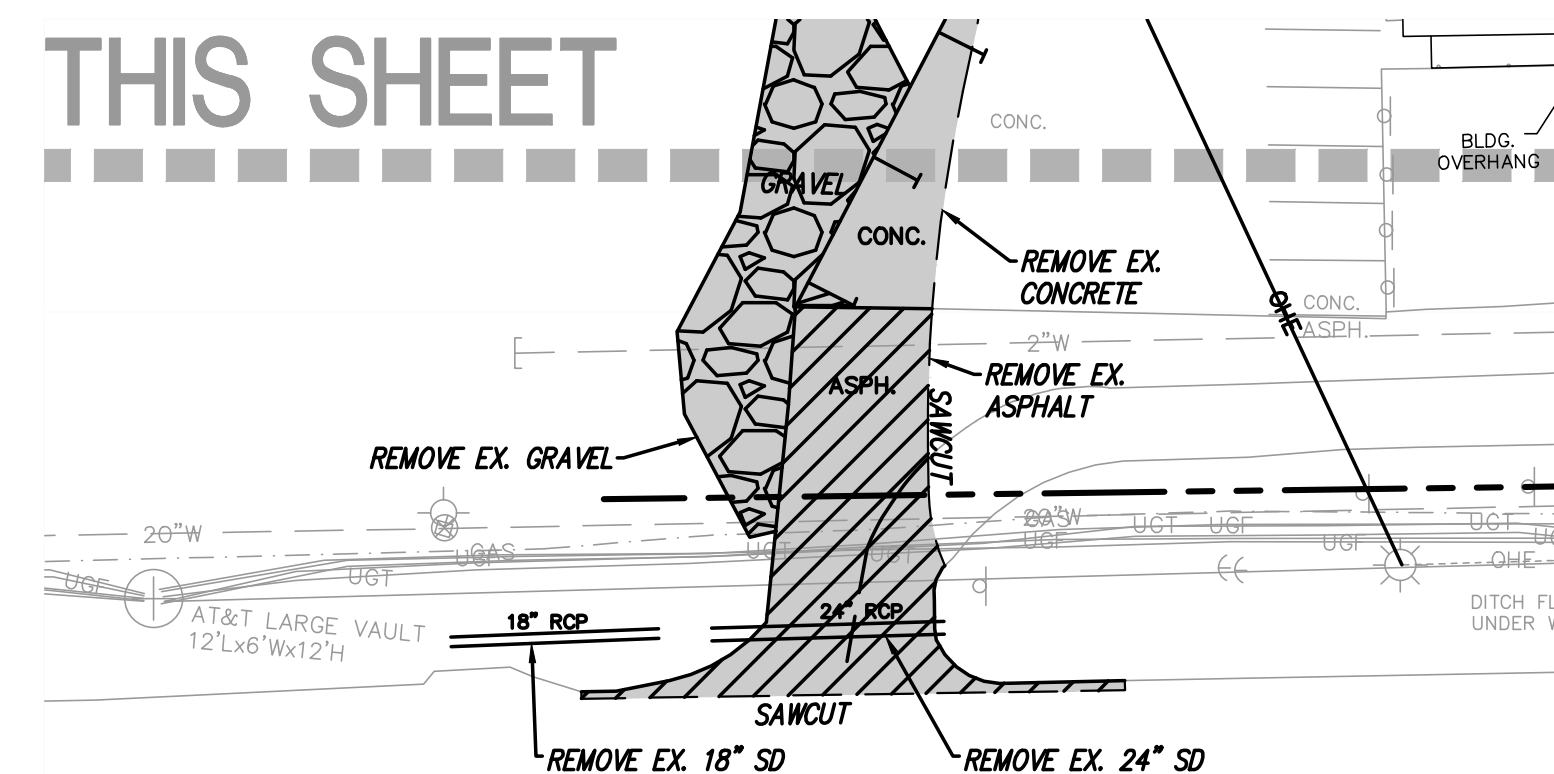
**City of Midlothian, Texas**  
Parking Lot to Serve  
**Randall Hill Support Center**  
**EXISTING UTILITY PLAN**

tnp project  
MLT22049  
sheet  
C1.02

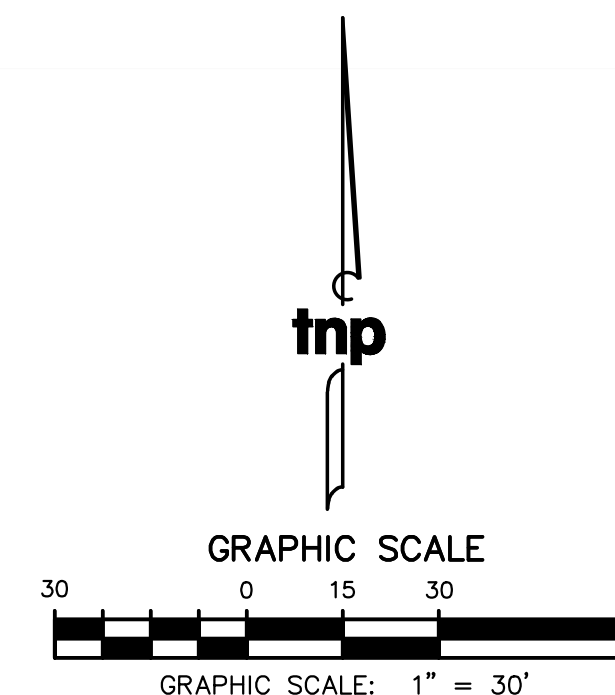




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NOTE:  
CONTRACTOR SHALL VERIFY EXACT  
LOCATION AND SIZE OF ALL UTILITIES  
AND USE EXTREME CAUTION DURING  
CONSTRUCTION.



DEMOLITION LEGEND	
	CONCRETE PAVEMENT/FLATWORK REMOVAL
	ASPHALT PAVEMENT REMOVAL
	GRAVEL PAVEMENT REMOVAL
	TREE REMOVAL
	REMOVE EXISTING UTILITIES

DEMOLITION NOTES	
1.	CONTRACTOR TO COORDINATE REMOVAL AND SALVAGE OF MISCELLANEOUS ITEMS WITH OWNER.
2.	CONTRACTOR SHALL NOTIFY OWNER OF EXISTING ITEMS IN CONFLICT WITH SITE IMPROVEMENTS NOT IDENTIFIED IN PLANS.
3.	ALL PHASING AND METHOD OF DEMOLITION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4.	REPLACE/REPAIR ANY IMPROVEMENTS DAMAGED OR REMOVED FOR CONSTRUCTION ACCESS.
5.	CONTRACTOR SHALL REMOVE/REPLACE ANY FLATWORK THAT WAS DAMAGED DURING THE COURSE OF DEMOLITION AND/OR CONSTRUCTION.
6.	EXISTING IRRIGATION SYSTEM SHALL BE RETROFITTED TO ACCOMMODATE NEW CONSTRUCTION. CONFIRM HEAD TO HEAD COVERAGE PER STATE REGULATIONS.


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

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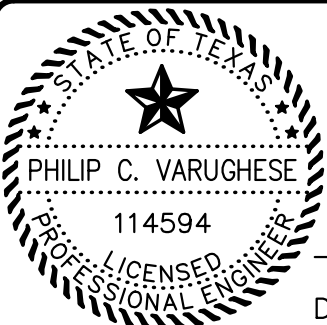
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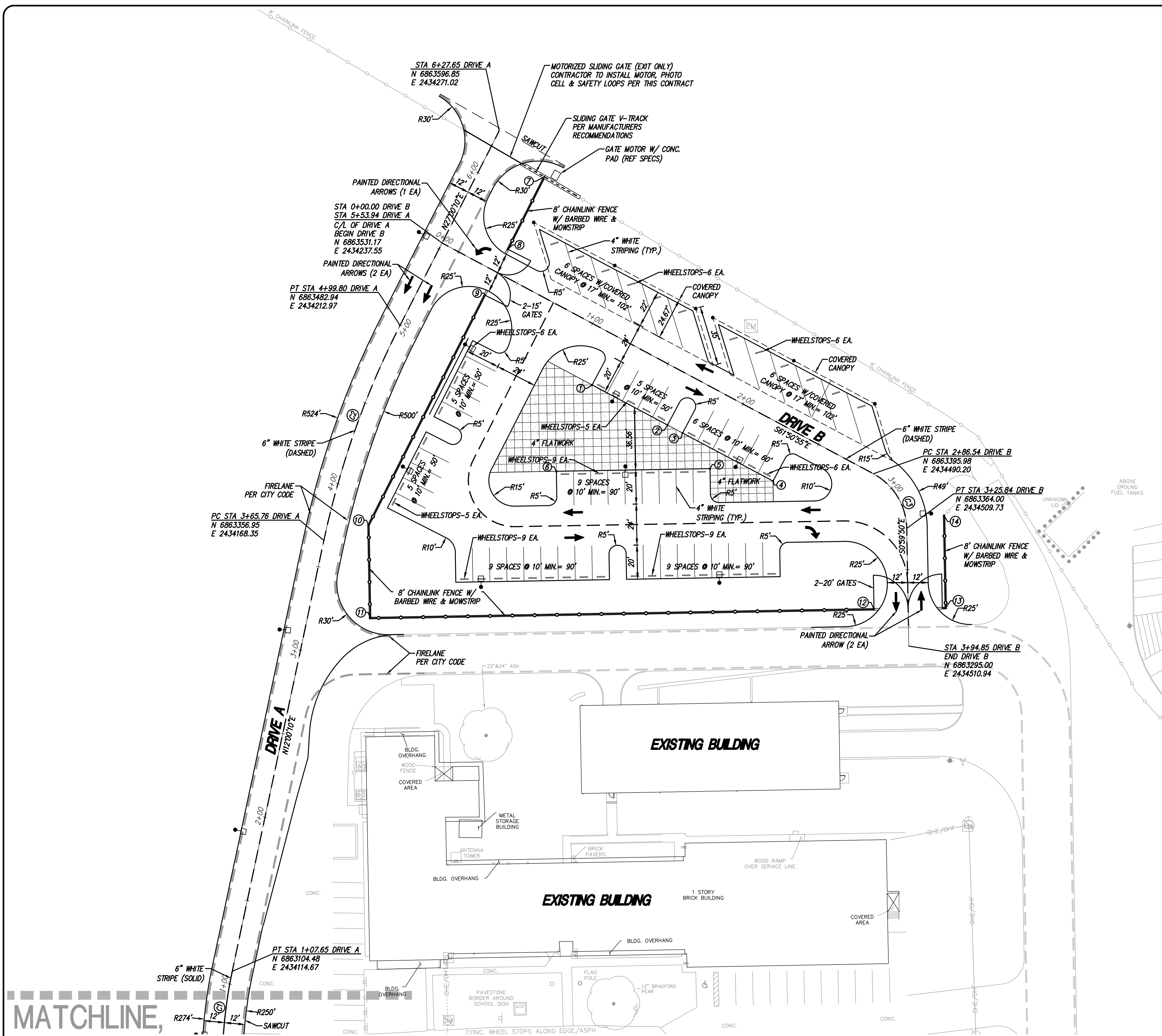


  
Philip C. Varughese, P.E.  
Date: 04-01-2022

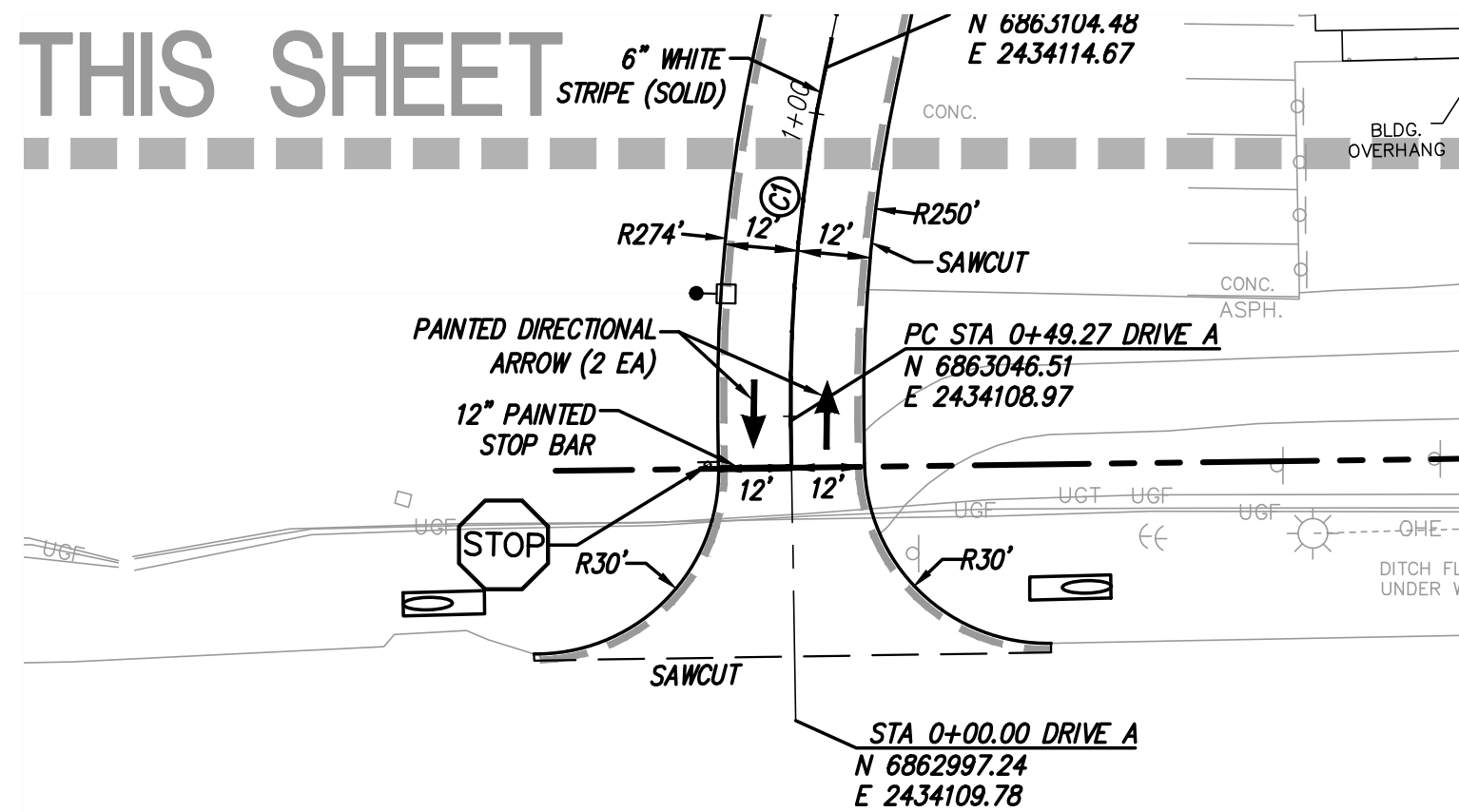
**City of Midlothian, Texas**  
Parking Lot to Serve  
**Randall Hill Support Center**  
**DEMOLITION PLAN**

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**C1.03**





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CURVE DATA				
Curve #	Delta	Radius	Length	Tan
C1	12°45'55"	262.00	58.37	29.31
C2	15°00'00"	512.00	134.04	67.41
C3	60°51'05"	37.00	39.30	21.73

PARKING DATA	
EXISTING PARKING:	35 SPACES
PROPOSED PARKING:	60 SPACES
TOTAL PARKING:	95 SPACES

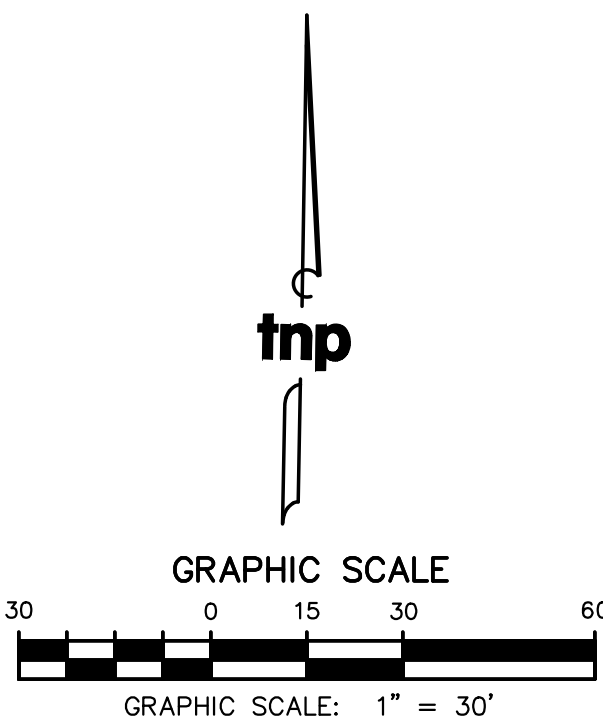
COORDINATE CONTROL TABLE			
Point #	Northing	Easting	Desc.
1	686.3448.01	2434.325.46	PI
2	686.3424.54	2434.369.61	PI
3	686.3419.84	2434.378.44	PI
4	686.3391.67	2434.431.41	PI
5	686.3398.99	2434.394.49	PI
6	686.3397.42	2434.304.51	PI
7	686.3569.86	2434.297.48	FENCE
8	686.3527.50	2434.276.10	FENCE
9	686.3500.68	2434.262.57	FENCE
10	686.3365.76	2434.194.49	FENCE
11	686.3311.43	2434.195.43	FENCE
12	686.3316.56	2434.490.56	FENCE
13	686.3317.29	2434.532.55	FENCE
14	686.3371.52	2434.531.61	FENCE

- NOTES**
- THIS PLAN SHALL BE USED TO CONTROL THE GEOMETRICS OF THE SITE LAYOUT. DIMENSIONAL TIES AND COORDINATES ARE PROVIDED TO ASSIST IN THE LAYOUT OF THE SITE IMPROVEMENTS. THE CONTRACTOR SHALL VERIFY THE COORDINATE TIES WITH THE DIMENSIONS PROVIDED ON THE PLANS.
  - ALL DIMENSIONS AND COORDINATES ARE TO THE FACE OF CURB.
  - ALL CURB RADII ARE 5' UNLESS OTHERWISE NOTED.

NOTE:  
ALL TRAFFIC CONTROL SIGNS, BARRICADES, AND FLAGGING SHALL BE IN ACCORDANCE WITH THE CURRENT TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND PHASING.

NOTE:  
CONTRACTOR SHALL VERIFY EXACT LOCATION AND SIZE OF ALL UTILITIES AND USE EXTREME CAUTION DURING CONSTRUCTION.

NOTE:  
CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR IMPROVEMENTS WITHIN PUBLIC ROW.



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STATE OF TEXAS  
PHILIP C. VARUGHESSE  
114594  
PROFESSIONAL ENGINEER  
Date: 04-01-2022

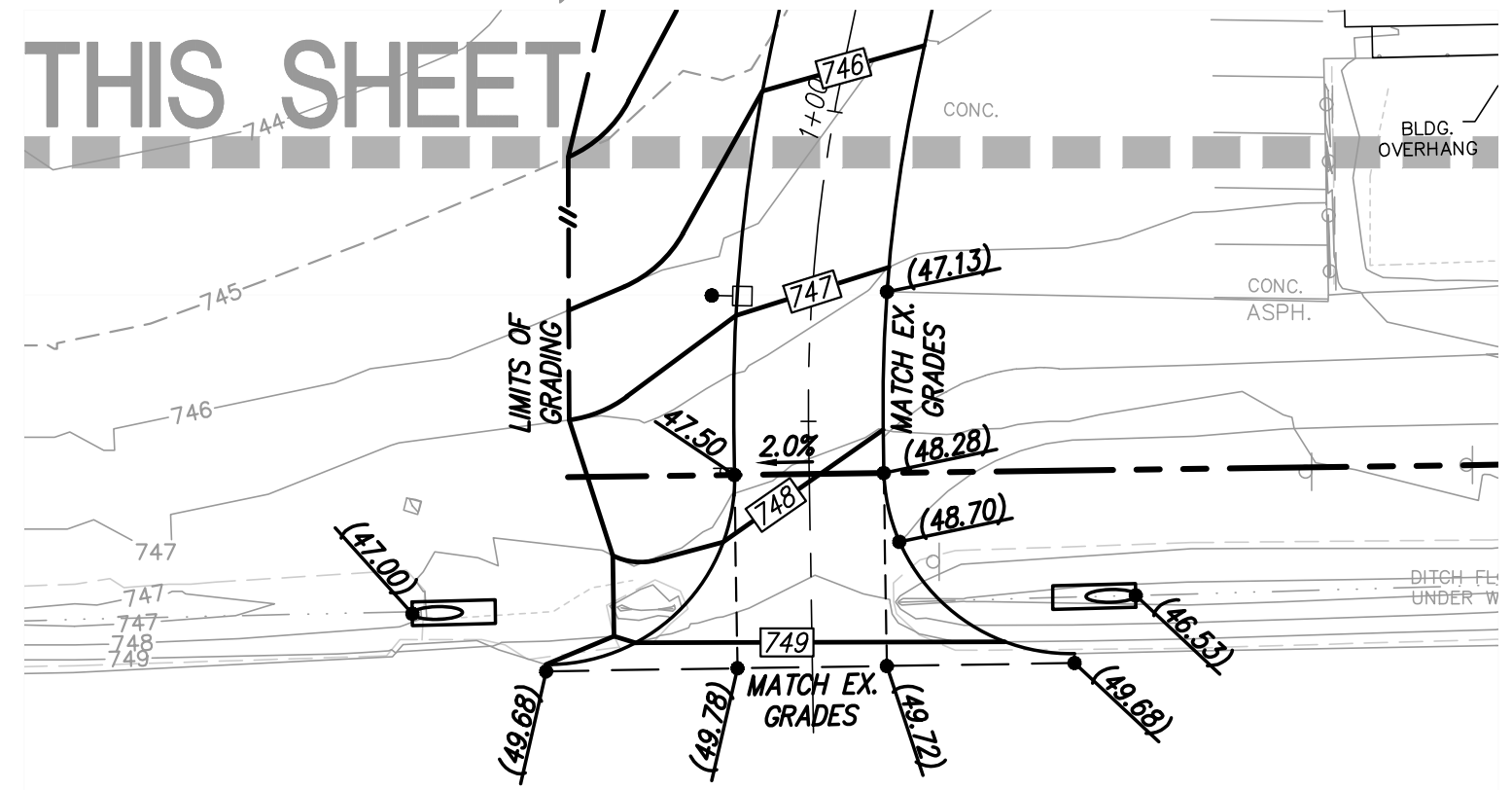
City of Midlothian, Texas  
Parking Lot to Serve  
**Randall Hill Support Center**  
SITE & DIMENSIONAL CONTROL PLAN

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**C1.04**



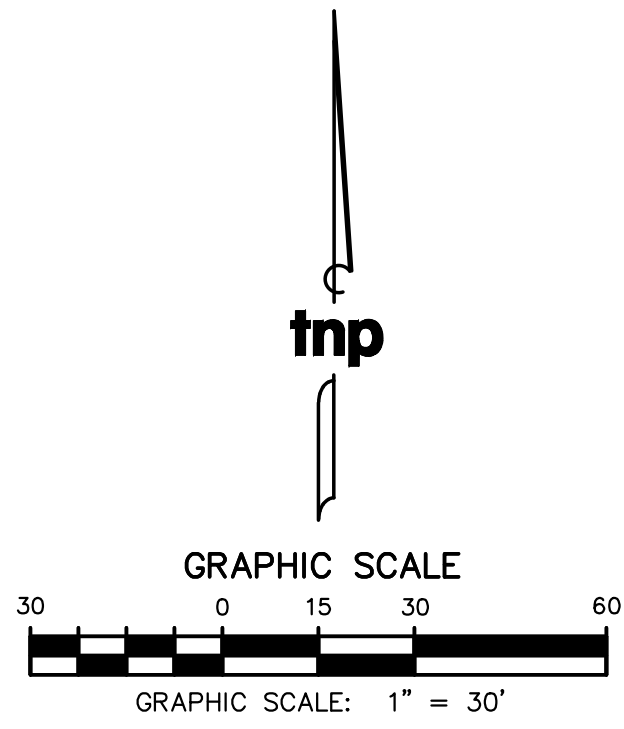


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GRADING LEGEND	
(79.20)	EXISTING SPOT ELEVATION
79.20	PROPOSED SPOT ELEVATION
5%	PROPOSED PERCENT OF GRADE
---(65.5)---	PROPOSED CONTOUR
---	GRADE BREAK/RIDGE LINE
---	PROPOSED SWALE LINE
---	PROPOSED DAYLIGHT LINE
5:1	PROPOSED SLOPE RATIO
x 79.20	EXISTING SPOT GRADE
-6.33-	EXISTING CONTOURS

- GRADING NOTES**
- THE GRADING OF THE DIFFERENT AREAS SHOWN ON THE SITE SHALL BE COMPACTED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS WHICH SHALL BE CONSIDERED AS PART OF THESE DRAWINGS.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING TO THE SUBGRADE OF ALL PAVED AREAS TO ALLOW FOR THE PAVEMENT SECTIONS. CONTRACTOR SHALL GRADE AND COMPACT ALL AREAS UNDER PAVEMENT TO ALLOW FOR THE RESPECTIVE PAVING SECTIONS AND SHALL MAINTAIN THESE FINISHED GRADES AS SHOWN UNTIL FINAL ACCEPTANCE.
  - CONTRACTOR IS REQUIRED TO INSTALL AND MAINTAIN EROSION CONTROL AT ALL TIMES THROUGHOUT THE PROJECT.
  - THE SPREADING AND COMPACTION OF ANY WASTE OR EXCESS MATERIAL NOT SUITABLE FOR FILLING, SUCH AS LARGE ROCK, CONCRETE, TREES, TRASH AND VEGETATION, SHALL BE DISPOSED OFFSITE AT THE CONTRACTOR'S EXPENSE ONLY IN THOSE AREAS APPROVED FOR DISPOSING OF WASTE MATERIAL. THE CONTRACTOR SHALL NOT DISPOSE OF ANY WASTE MATERIAL ON ADJACENT PROPERTY OWNER'S OR OTHER AREAS WHICH ARE NOT LEGALLY ACCEPTED BY THE CITY. NO BURNING OF ANY MATERIAL AT ANY TIME SHALL BE ALLOWED ON THIS SITE UNLESS PERMITTED BY CITY ORDINANCES.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SAFETY LAWS IN ACCORDANCE WITH THE CITY, STATE AND FEDERAL LAWS WHICH GOVERN CONSTRUCTION.
  - ALL AREAS TO BE FILLED SHALL BE FILLED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS. ALL VEGETATION, TREES, ROCKS AND OBJECTIONABLE MATERIALS SHALL BE REMOVED BY THE CONTRACTOR FROM THE SURFACE OF WHICH THE FILL IS PLACED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE, SPREAD, WATER AND COMPACT THE FILL IN STRICT ACCORDANCE WITH THE SPECIFICATIONS FOR THIS PROJECT.
  - ALL DRIVE, PARKING AREAS, CUT AND FILL SLOPES, BUILDING PADS AND OPEN SPACE AREAS SHALL BE TRIMMED AND COMPACTED TO THE FINISHED GRADE TO PRODUCE SMOOTH SURFACES AND UNIFORM CROSS-SECTIONS. THE SLOPES OF ALL EXCAVATIONS AND EMBANKMENTS SHALL BE LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS, TREES, AND OTHER WASTE MATERIAL SHALL BE REMOVED AND DISPOSED OFF SITE. ALL VOIDS SHALL BE FILLED AND ANY SOFT SPOTS OCCURRING ON THIS SITE SHALL BE RECOMPACTED PER THE SPECIFICATIONS. VERIFY ALL GRADES TO AVOID PONDING OF WATER.
  - NO ADJUSTMENT OF GRADES WILL BE PERMITTED TO ANY STRUCTURES, PAVEMENT OR WALK SURFACES. SHOULD THE CONTRACTOR DETERMINE THERE IS A DEFICIENCY OF MATERIAL, THEN ALLOWANCE WILL MADE IN THE CONTRACT TO IMPORT A CLEAN MATERIAL SUITABLE FOR FILLING. THE OWNER'S LABORATORY WILL BE ALLOWED TO TEST AND INSPECT THE BORROW SITE PRIOR TO BEGINNING HIS FILLING OPERATIONS. EXCESS EXCAVATED MATERIAL SHALL BE DISPOSED OFFSITE AS REQUIRED.
  - THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT SCOPE OF WORK. THE CONTRACTOR SHALL REMOVE ALL VEGETATION FROM THE LIMITS OF THE PROPOSED IMPROVEMENTS. ALL TREES OUTSIDE THE LIMITS OF CONSTRUCTION SHALL REMAIN UNLESS NOTED ON THE PLANS TO BE REMOVED OR APPROVED BY THE OWNER.
  - ALL WALKS SHALL NOT EXCEED THE MAXIMUM SLOPES ALLOWED BY THE TEXAS ACCESSIBILITY STANDARDS (TAS), UNLESS INDICATED. THE MAXIMUM CROSS SLOPE IS 2% AND THE MAXIMUM DIRECTIONAL SLOPE IS 5%.
  - ALL SPOT GRADES ARE FOR PROPOSED EDGE OF PAVEMENT OR GUTTER ELEVATIONS, UNLESS INDICATED OTHERWISE.
  - ALL AREAS SHALL BE TRIMMED AND COMPACTED TO THE FINISHED GRADE TO PRODUCE SMOOTH SURFACES AND UNIFORM CROSS- SECTIONS. THE SLOPES OF ALL EXCAVATIONS AND EMBANKMENTS SHALL BE LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS, TREES, AND OTHER WASTE MATERIAL SHALL BE REMOVED AND DISPOSED OFF SITE. ALL VOIDS SHALL BE FILLED AND ANY SOFT SPOTS OCCURRING ON THIS SITE SHALL BE RECOMPACTED PER THE SPECIFICATIONS. VERIFY ALL GRADES TO AVOID PONDING OF WATER.
  - EXISTING DEPRESSED AREAS, WHICH HOLD SURFACE WATER, SHALL BE PUMPED DRY. EXISTING SOGGY MATERIALS SHALL BE EXCAVATED AND REMOVED UNTIL A STABLE DRY MATERIAL IS AVAILABLE. THIS EXPOSED MATERIAL SHALL BE COMPACTED TO 95% STD PROCTOR. ON SITE MATERIAL SHALL BE PLACED IN 8" MAX LIFTS AND COMPACTED TO MAX 95% STD PROCTOR AT OPTIMUM MOISTURE CONTENT.
  - IN THE EVENT THE CONTRACTOR WILL BE STOCKPILING DIRT ON SITE, THE LOCATION OF THE STOCKPILE SHALL BE PLACED IN A LOCATION SO AS NOT TO CAUSE A DIVERSION OR CHANGE OF THE DRAINAGE PATTERNS THAT WILL IMPACT OFFSITE PROPERTIES.



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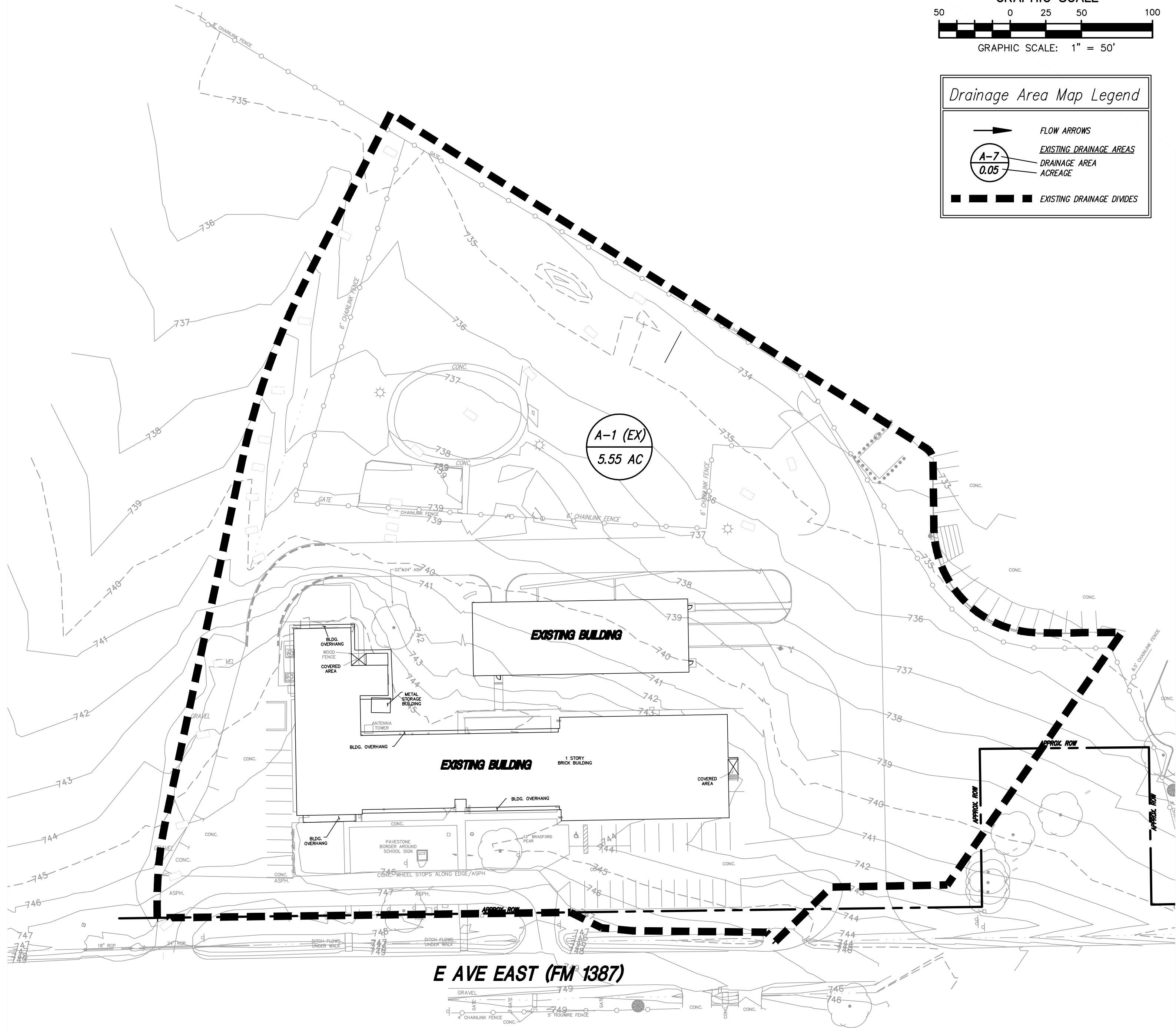
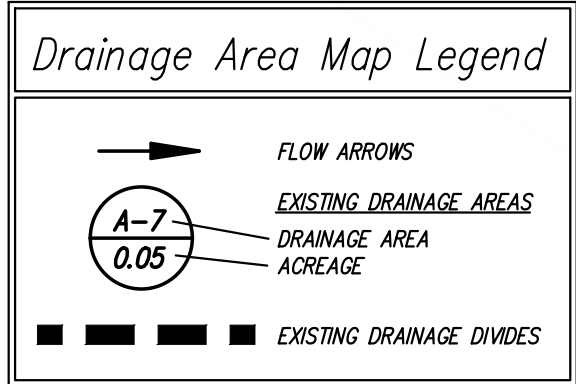
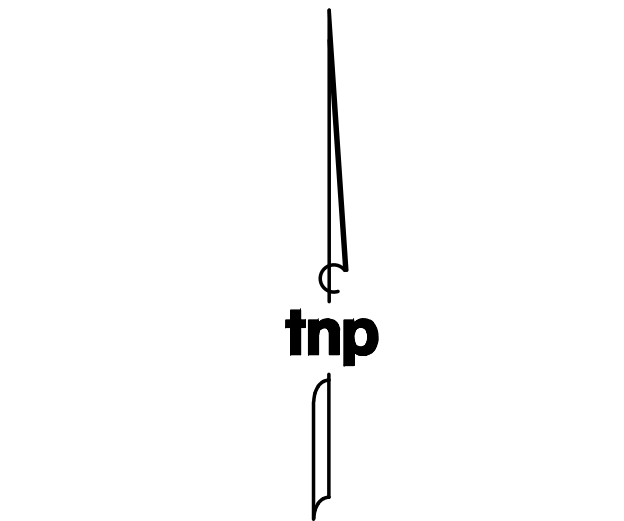
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LICENSED PROFESSIONAL ENGINEER  
Date: 04-07-2022

City of Midlothian, Texas  
Parking Lot to Serve  
**Randall Hill Support Center**  
**GRADING PLAN**

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sheet  
**C1.05**

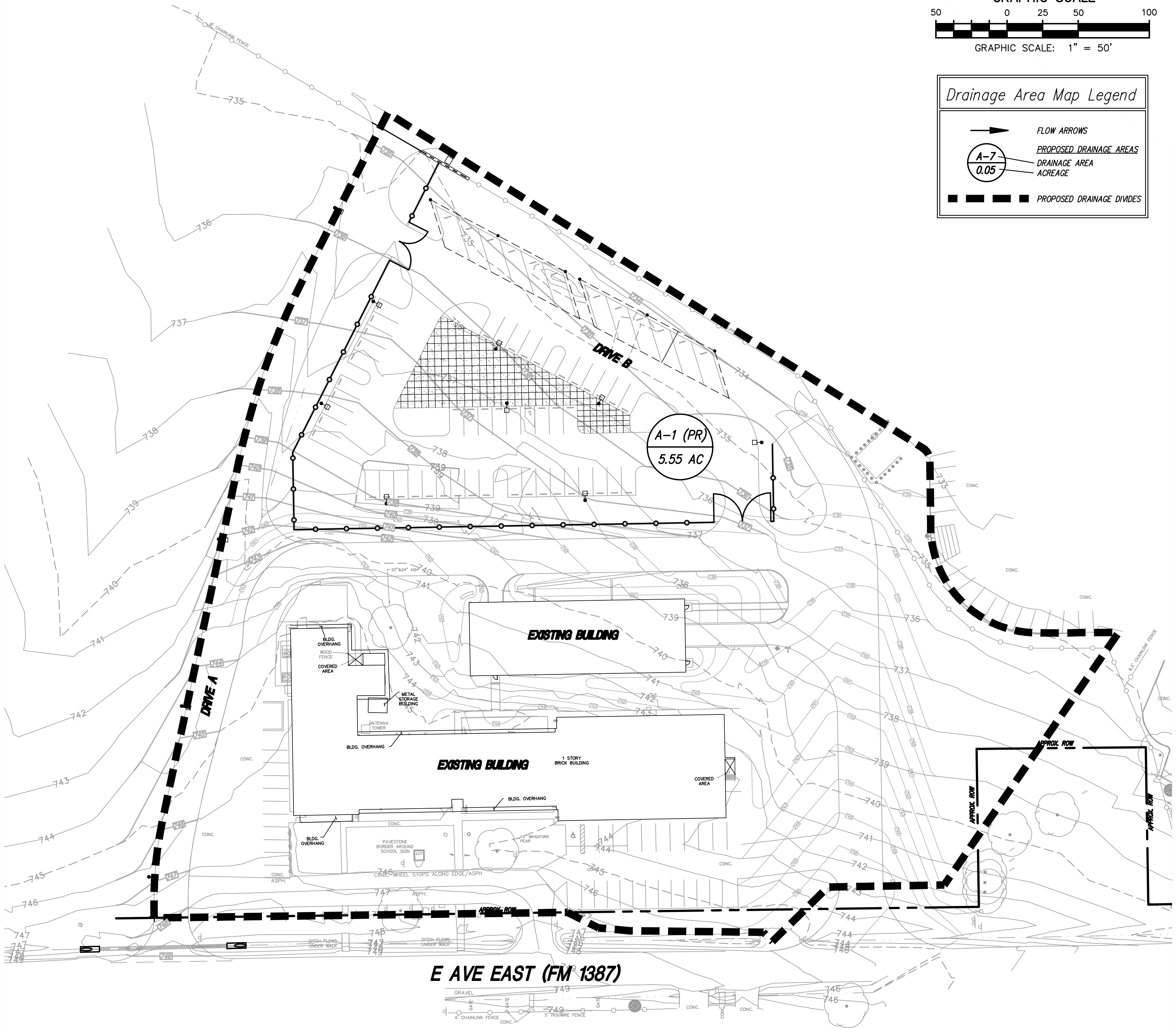
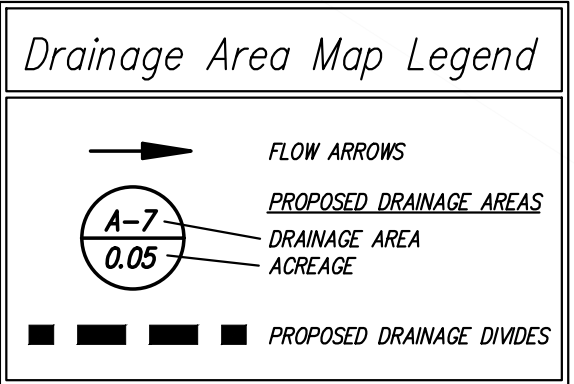
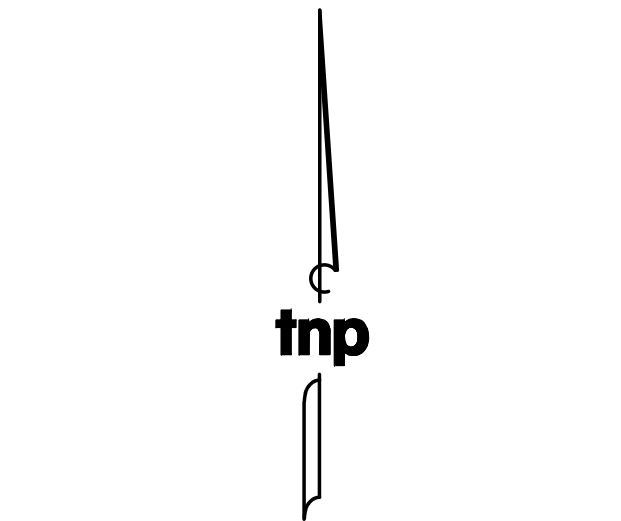


DRAINAGE AREA DATA														
AREA	ACRES		T <sub>c</sub>	I <sub>1</sub>	Q <sub>1</sub>	I <sub>5</sub>	Q <sub>5</sub>	I <sub>10</sub>	Q <sub>10</sub>	I <sub>25</sub>	Q <sub>25</sub>	I <sub>100</sub>	Q <sub>100</sub>	DESCRIPTION
	TOTAL	WEIGHTED												
A-1 (EX)	5.55	0.62	10	4.13	14.22	5.84	20.10	6.56	22.58	7.62	26.23	9.31	32.05	Sheet Flow Offsite
A-1 (PR)	5.55	0.72	10	4.13	16.60	5.84	23.48	6.56	26.37	7.62	30.63	9.31	37.42	Sheet Flow Offsite



EXISTING DRAINAGE AREA MAP

DRAINAGE AREA DATA														
AREA	ACRES		T <sub>c</sub>	I <sub>1</sub>	Q <sub>1</sub>	I <sub>5</sub>	Q <sub>5</sub>	I <sub>10</sub>	Q <sub>10</sub>	I <sub>25</sub>	Q <sub>25</sub>	I <sub>100</sub>	Q <sub>100</sub>	DESCRIPTION
	TOTAL	WEIGHTED												
A-1 (EX)	5.55	0.62	10	4.13	14.22	5.84	20.10	6.56	22.58	7.62	26.23	9.31	32.05	Sheet Flow Offsite
A-1 (PR)	5.55	0.72	10	4.13	16.60	5.84	23.48	6.56	26.37	7.62	30.63	9.31	37.42	Sheet Flow Offsite



PROPOSED DRAINAGE AREA MAP

no.	revision	by	date

**MIDLOTHIAN ISD**  
INSPIRING EXCELLENCE

scale  
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1"=50'  
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n/a  
date  
APRIL 2022

**tnp**

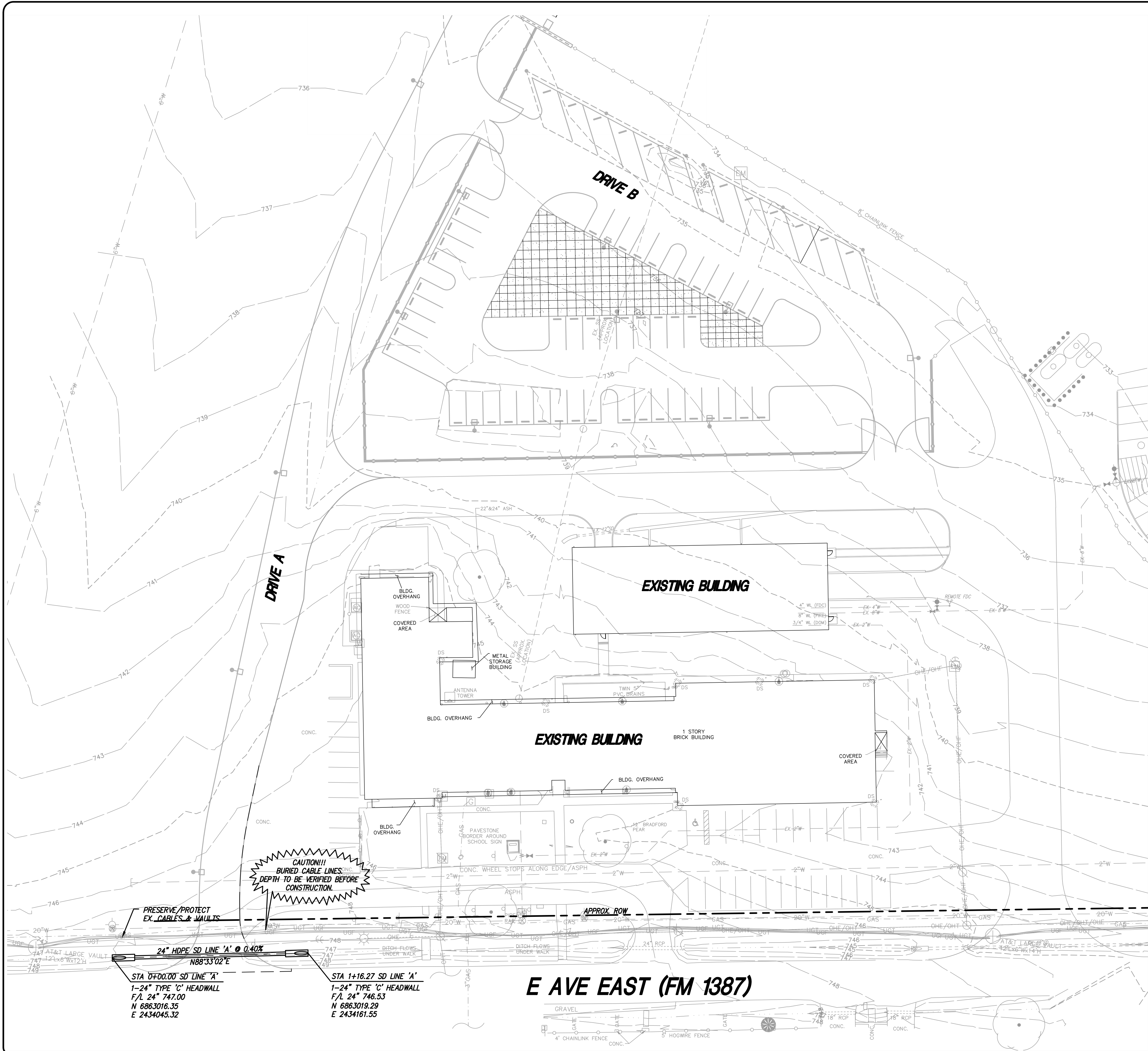
**teague nall & perkins**  
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Fort Worth, Texas 76137  
817.336.5773 ph 817.336.2813 fx  
TBPE Registration No. F-230  
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STATE OF TEXAS  
PHILIP C. VARUGHESSE  
114594  
LICENSED PROFESSIONAL ENGINEER  
Date: 04-07-2022

City of Midlothian, Texas  
Parking Lot to Serve  
**Randall Hill Support Center**  
**DRAINAGE AREA MAP**

tnp project  
MLT22049  
sheet  
**C1.06**





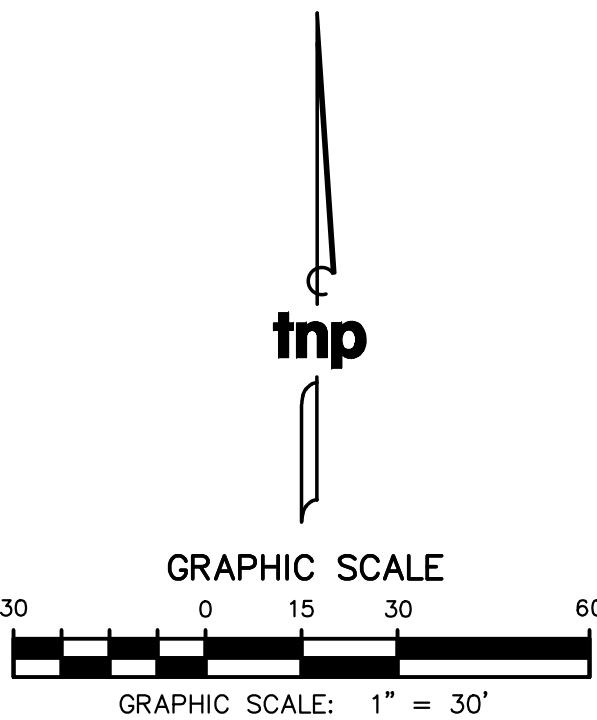
**DRAINAGE SPECIFICATIONS**  
1. ALL PIPES SHALL BE RCP UNLESS OTHERWISE NOTED.

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

**NOTE:**  
CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FOR IMPROVEMENTS WITHIN PUBLIC ROW.

**NOTE:**  
ALL TRAFFIC CONTROL SIGNS, BARRICADES, AND FLAGGING SHALL BE IN ACCORDANCE WITH THE CURRENT TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND PHASING.


**NOTE:**  
CONTRACTOR SHALL VERIFY EXACT LOCATION AND SIZE OF ALL UTILITIES AND USE EXTREME CAUTION DURING CONSTRUCTION.


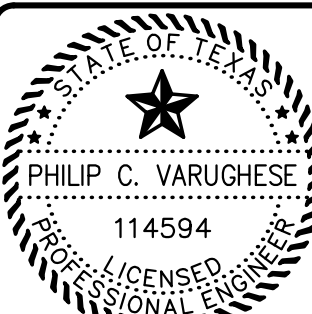


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**MIDLOTHIAN ISD**  
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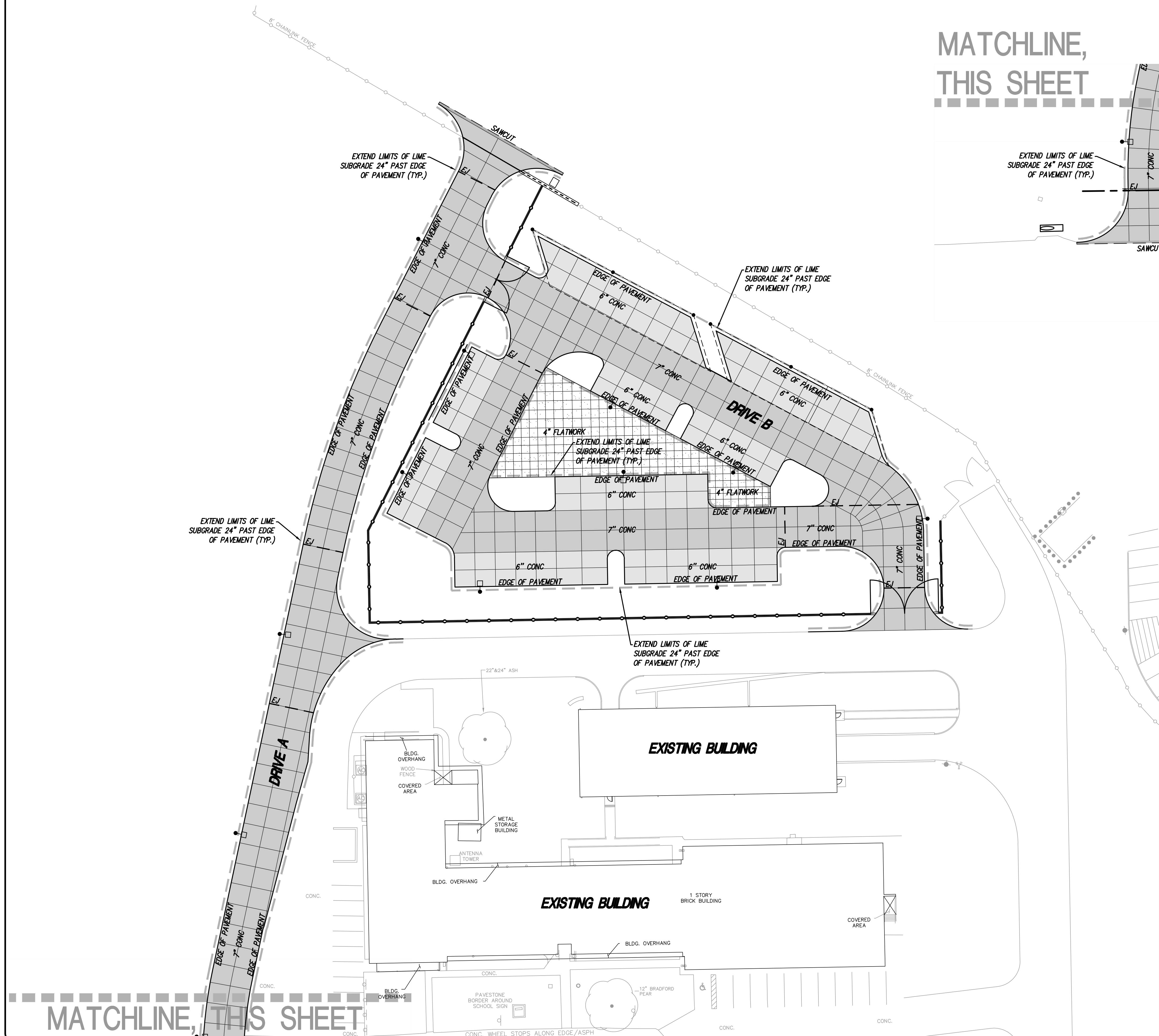
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Date: 04-01-2022

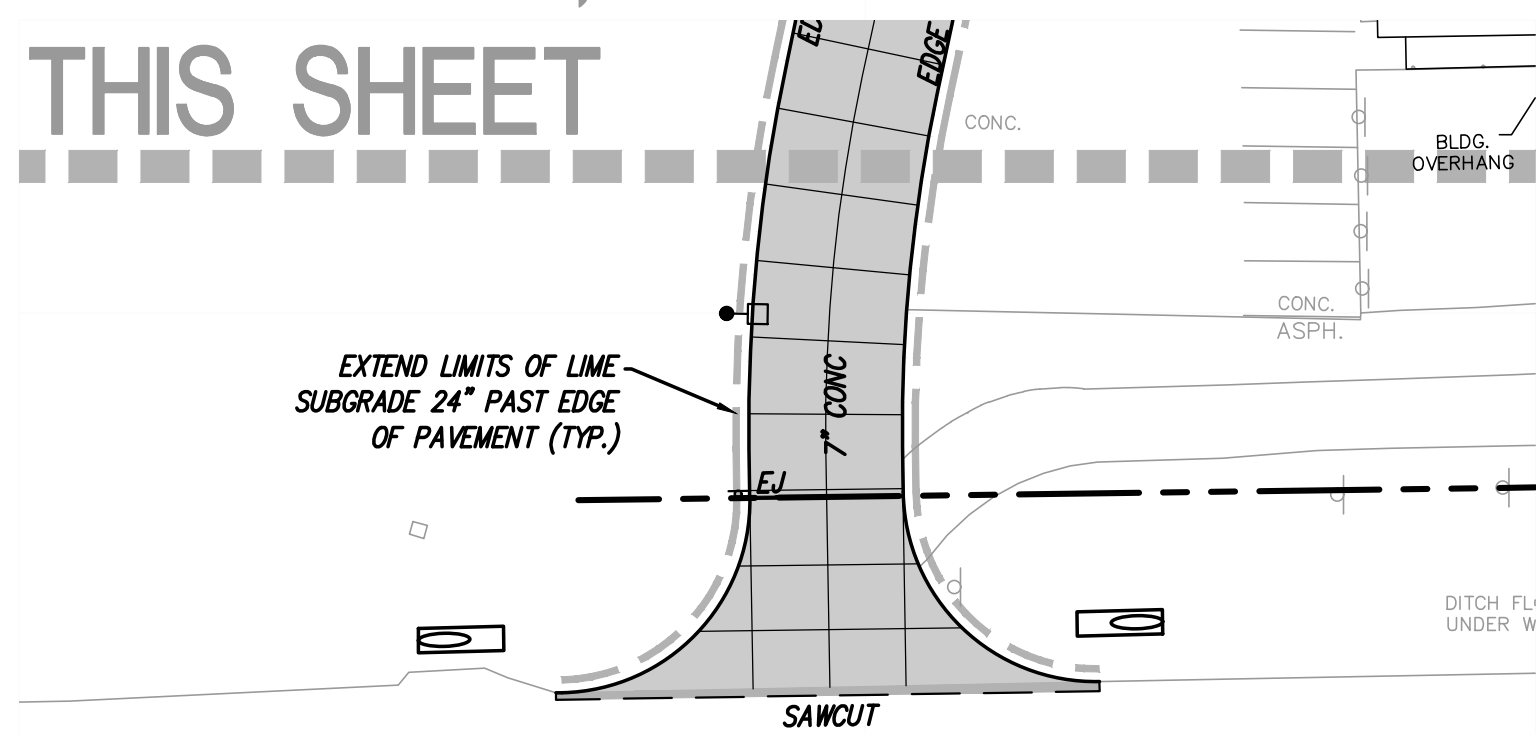
City of Midlothian, Texas  
Parking Lot to Serve  
**Randall Hill Support Center**  
**STORM DRAIN PLAN**

tnp project  
MLT22049  
sheet  
**C1.07**





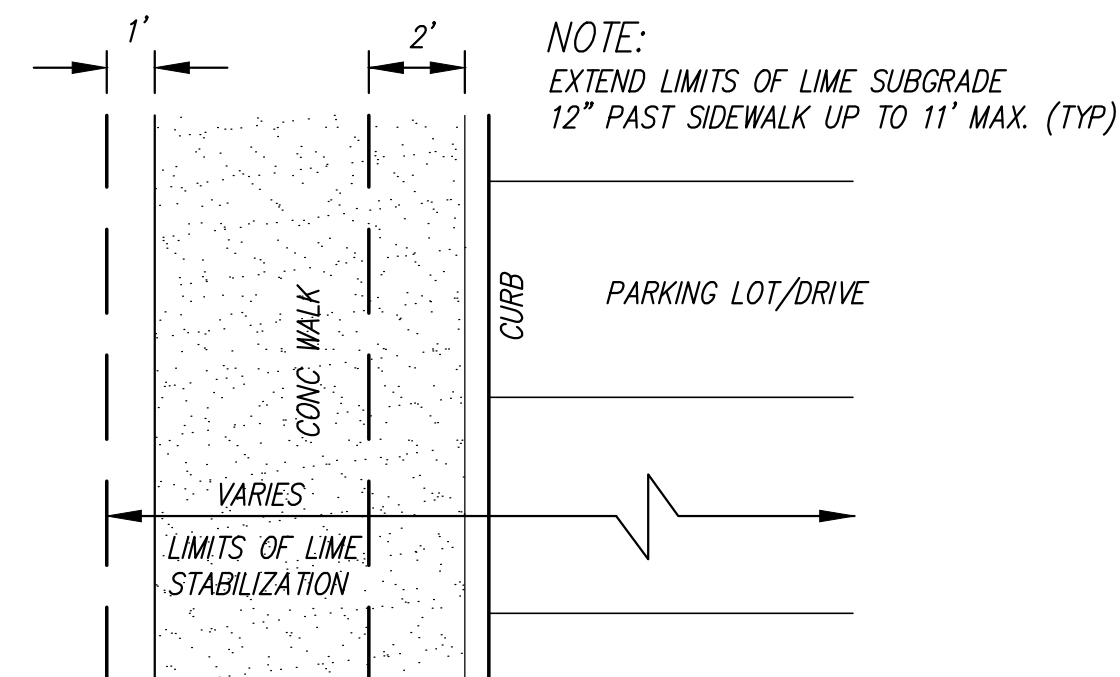
MATCHLINE,  
THIS SHEET



- PAVING NOTES**
- ALL CONCRETE PAVING SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS. MISC. CONCRETE FLATWORK SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
  - CONCRETE PAVING SHALL BE PLACED ON 6" LIME STABILIZED SUBGRADE USING 7% MINIMUM LIME (32LBS/SY). RECOMPACT SUBGRADE TO AT LEAST 95% STANDARD PROCTOR AND WITHIN 0 TO 4 PERCENTAGE POINTS ABOVE THE OPTIMUM MOISTURE.
  - ALL CONCRETE SAWCUT JOINTS SHALL BE SPACED AT 12' MAXIMUM CENTERS EACH WAY. SAWCUTTING SHALL BE ACCOMPLISHED WITHIN 4 TO 12 HOURS OF PLACING CONCRETE PAVEMENT. CONTRACTOR SHALL MAKE NECESSARY PROVISIONS FOR LIGHTING, EQUIPMENT AND LABOR TO MEET THE SAWCUT SPECIFICATIONS. NO TOLERANCE IS PERMITTED IN THE SAWCUTTING TIME.
  - CONTRACTOR SHALL TAKE NOTE OF DIFFERENT TYPES OF EDGE OF PAVEMENTS TO BE USED ON THIS PROJECT.
  - CONCRETE SHALL BE PLACED USING A WALK BEHIND SCREED MACHINE (MAGIC SCREED). IN ADDITION, A BACKPACK VIBRATOR SHALL BE USED. A MINIMUM OF TWO (2) SCREEN MACHINES AND BACKPACK VIBRATORS SHALL BE PRESENT DURING ALL CONCRETE POURS.
  - ALL TRAFFIC CONTROL DEVICES AND PROCEDURES SHALL CONFORM TO THE LATEST VERSION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
  - CONTRACTOR IS RESPONSIBLE FOR REMOVING DIRT, MUD, AND SPOILS TRACKED ONTO PUBLIC ROADS RESULTING FROM CONSTRUCTION ACTIVITIES.
  - CONTRACTOR SHALL VERIFY SLEEVE SIZE AND LOCATIONS WITH IRRIGATION PLANS AND MEP PLANS.
  - CONTRACTOR SHALL STAMP CURBS INDICATING SIZE, LOCATION, AND TYPE OF SLEEVE.

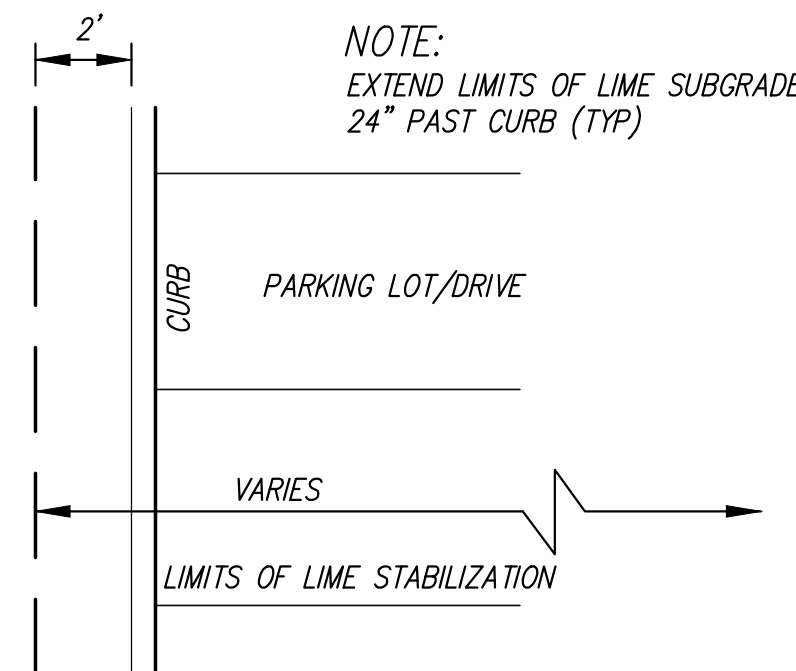
**LEGEND**

	6" CONCRETE PAVEMENT
	7" CONCRETE PAVEMENT
	SAWED DUMMY JOINT
	EXPANSION JOINT



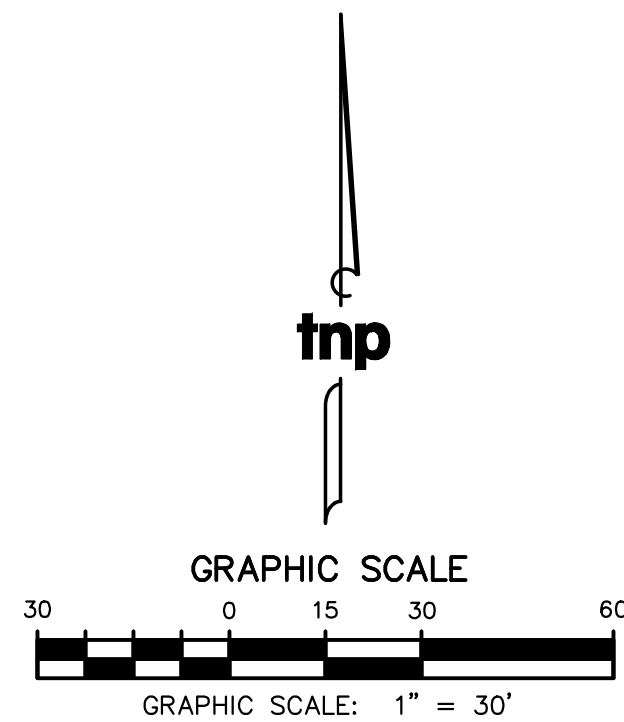
**LIMITS OF LIME ADJACENT TO SIDEWALK & BACK OF CURB**

N.T.S.



**LIMITS OF LIME ADJACENT TO BACK OF CURB**

N.T.S.



no.	revision	by	date

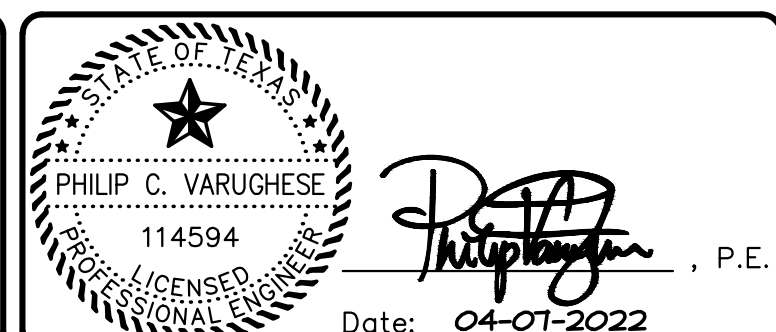
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APRIL 2022



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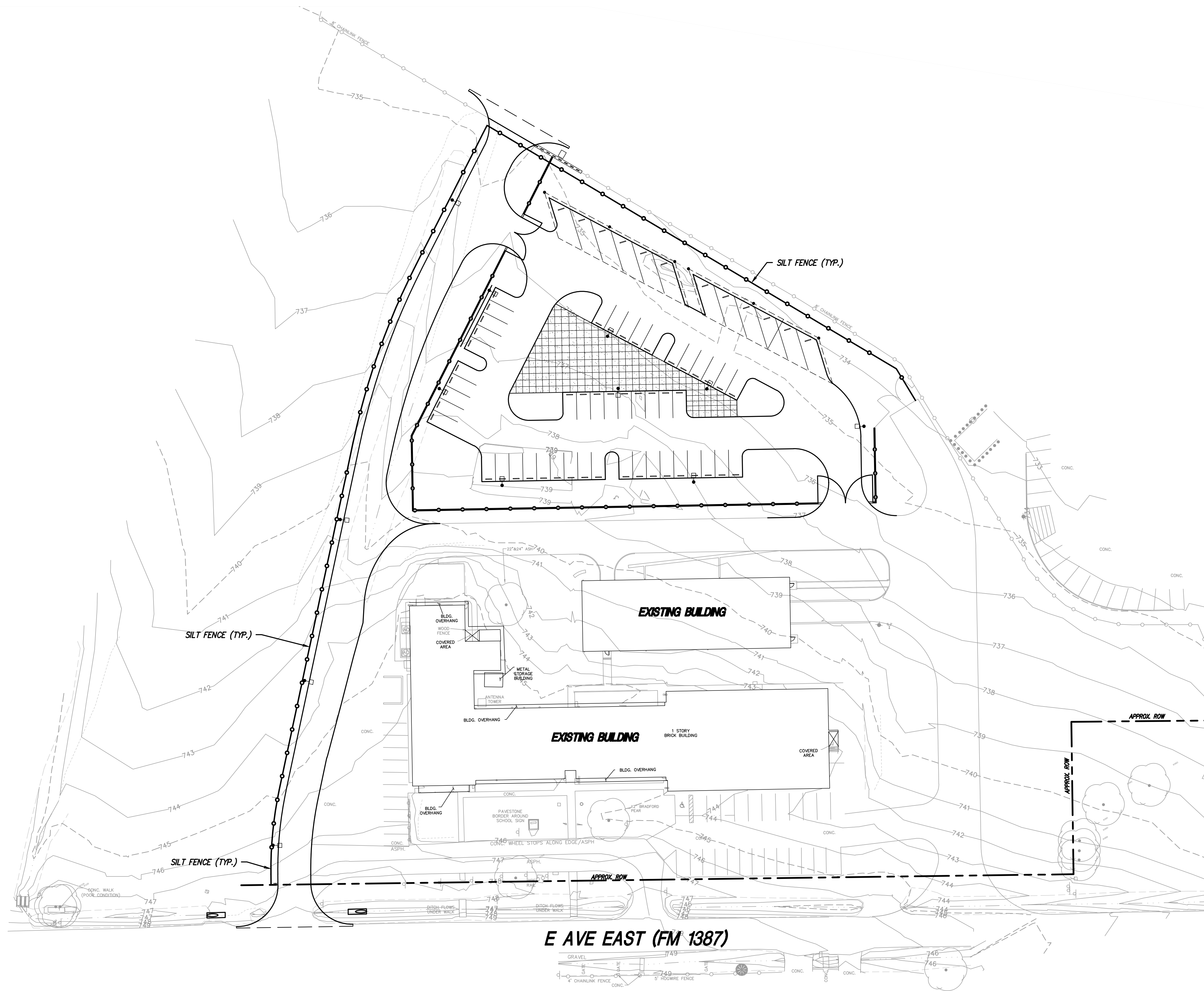
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City of Midlothian, Texas  
Parking Lot to Serve  
**Randall Hill Support Center**  
PAVING PLAN

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MLT22049  
sheet  
**C1.08**

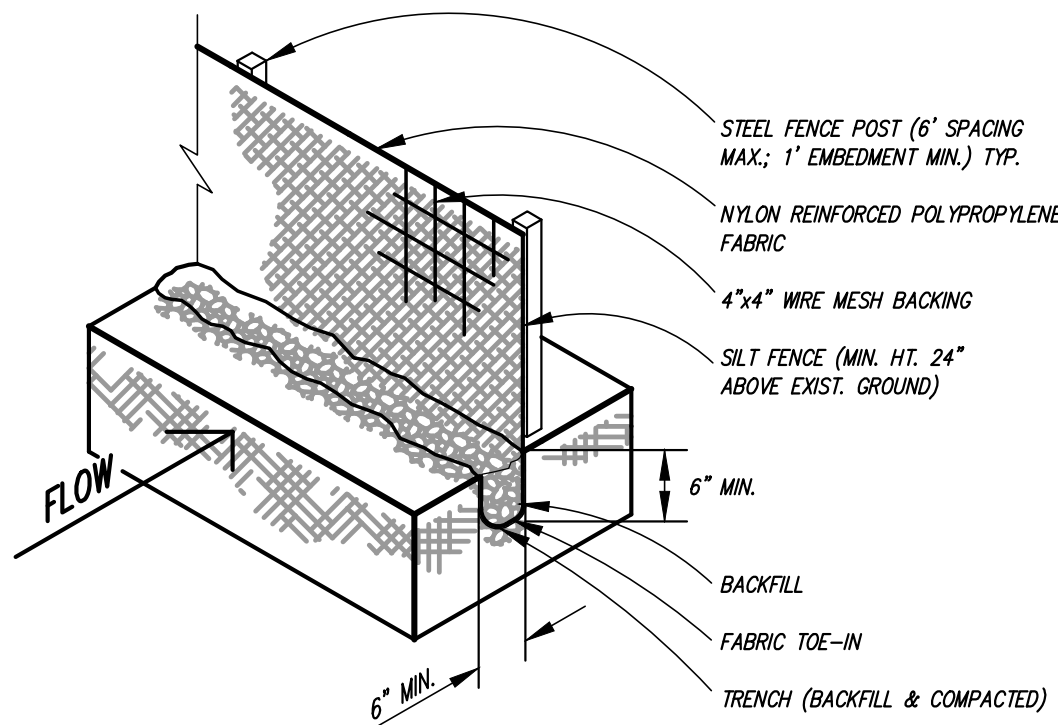




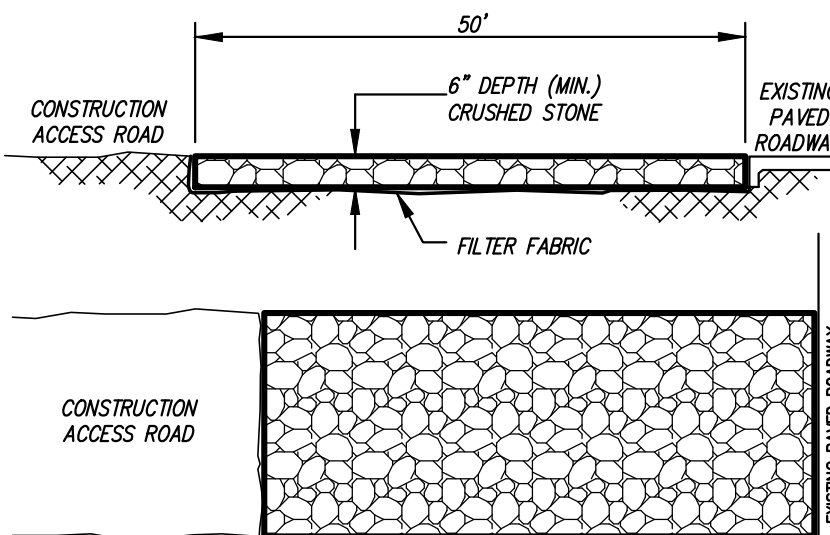
NOTE:  
CONTRACTOR SHALL PROVIDE STABILIZED  
CONSTRUCTION EXIT AS NECESSARY BASED ON  
SITE CONSTRAINTS AND SEQUENCING OF  
CONSTRUCTION.

#### SILT FENCE NOTES

1. SILT FENCE MAY BE USED WHERE THE GROUND SLOPES ACROSS A DITCH OR SWALE.
2. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. THE POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
3. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF THE FLOW.
4. THE TRENCH MUST BE A MINIMUM OF 6" DEEP AND 6" WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
5. THE SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST. ALTERNATIVELY, SILT FENCE SHALL BE FASTENED TO WOVEN WIRE WHICH IS FASTENED TO THE STEEL POST. THE ENDS OF FABRIC SHALL OVERLAP THREE FEET.
6. INSPECTION SHALL BE MADE WEEKLY AND AFTER EACH RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
7. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO THAT NATURAL DRAINAGE IS NOT BLOCKED OR IMPEDED.
8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT A SITE APPROVED BY THE OWNER AND IN SUCH A MANNER AS TO PREVENT ADDITIONAL SILTATION.
9. CONTRACTOR TO MAINTAIN SILT FENCING AND ALL OTHER EROSION CONTROL MEASURES AT ALL TIMES DURING THE DURATION OF THE PROJECT.
10. THE SILT FENCE LOCATION SHOWN IS APPROXIMATE. CONTRACTOR SHALL INSTALL SILT FENCE AS NECESSARY TO PRESERVE AND PROTECT EXISTING TREES, FENCES, AND VEGETATION ALONG PROPERTY LINES.
11. CONTRACTOR SHALL STAKE THE PROPERTY LINE BEFORE SETTING SILT FENCE.

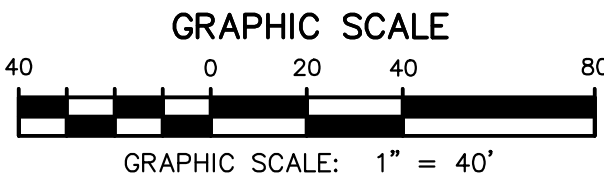
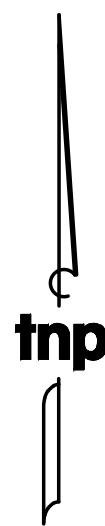


#### SILT FENCE



1. A STABILIZED CONSTRUCTION ENTRANCE APPLIES TO POINTS OF CONSTRUCTION INGRESS AND EGRESS WHERE SEDIMENT MAY TRACKED OR FLOW OFF THE CONSTRUCTION SITE.
2. THE ENTRANCE SHALL BE MAINTAINED IN CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.

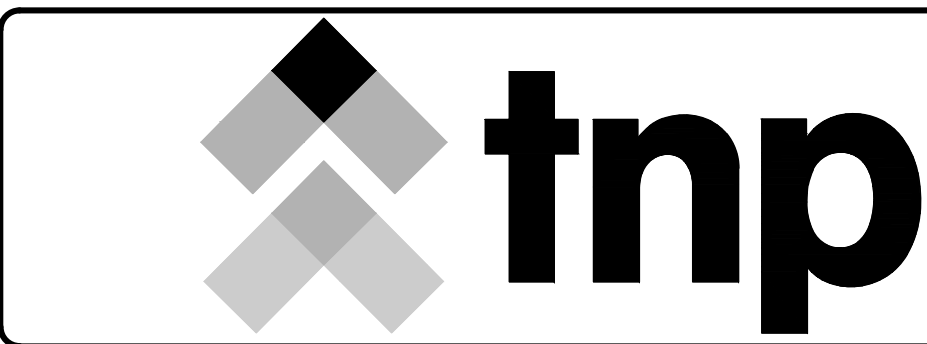
#### STABILIZED CONSTRUCTION EXIT




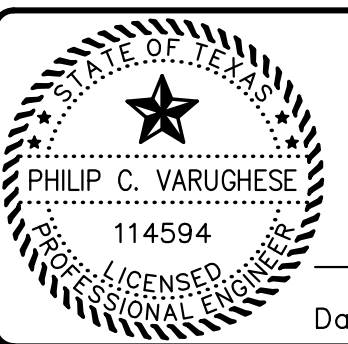
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**MIDLOTHIAN ISD**  
INSPIRING EXCELLENCE

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APRIL 2022



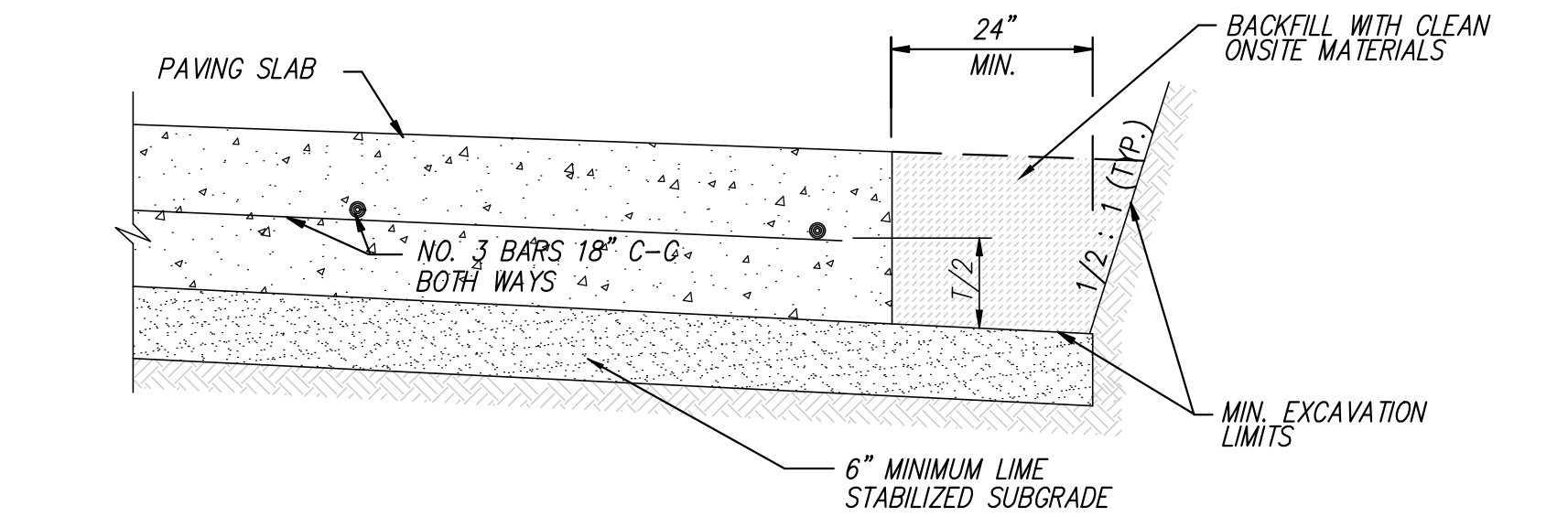
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**City of Midlothian, Texas**  
Parking Lot to Serve  
**Randall Hill Support Center**  
**EROSION CONTROL PLAN**

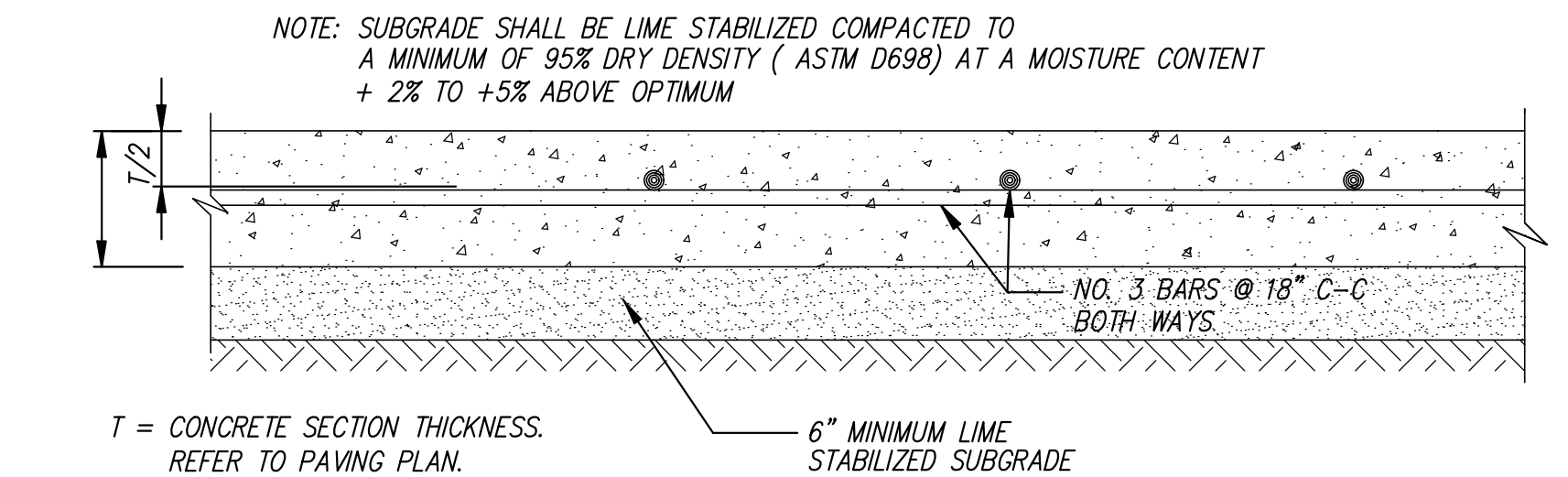
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**C1.09**





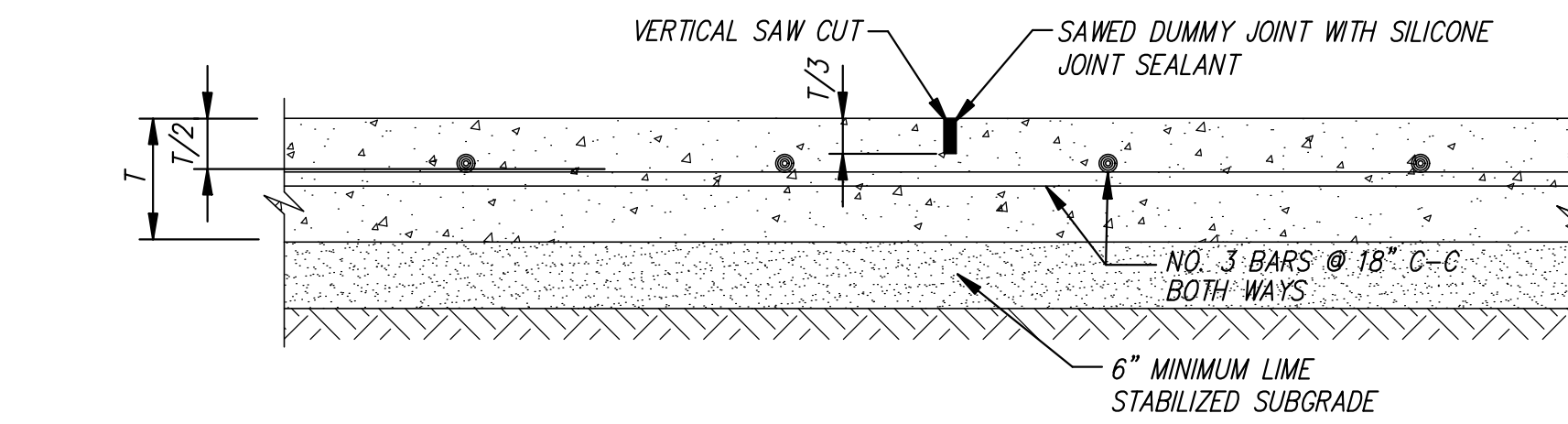
## EDGE OF PAVEMENT

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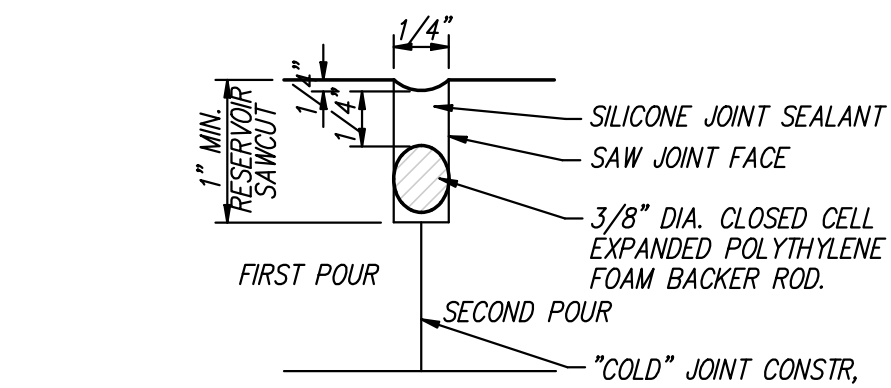
## TYPICAL CONCRETE SECTION

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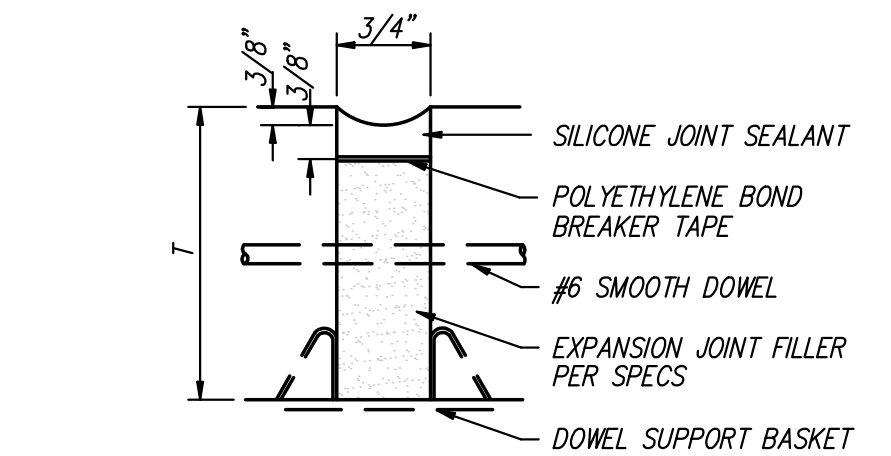
## SAWED DUMMY JOINT

N.T.S.



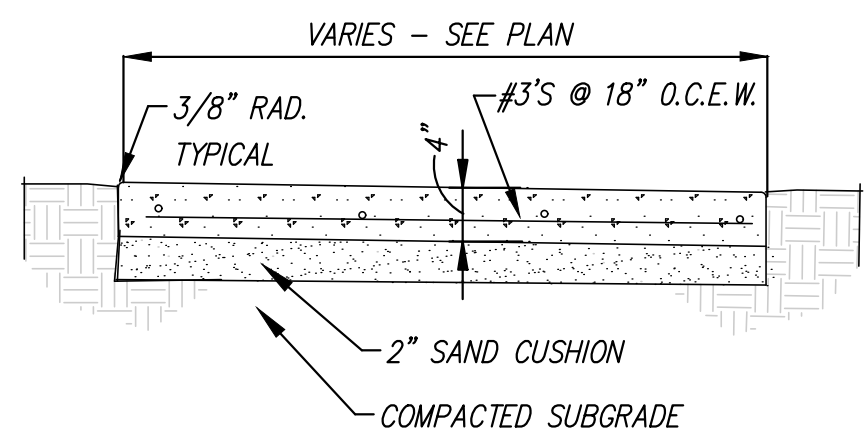
## CONSTRUCTION BUTT JOINT SEAL

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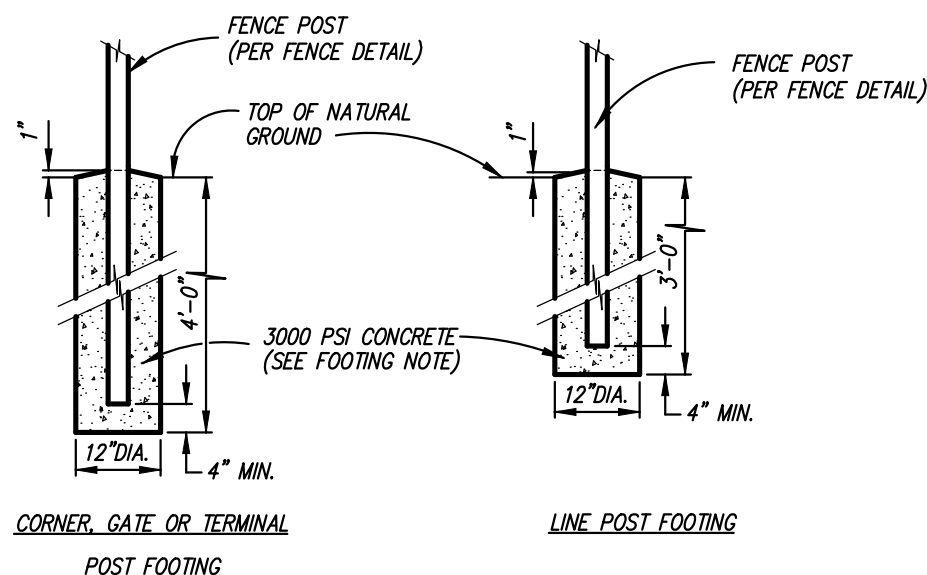
## EXPANSION JOINT SEAL

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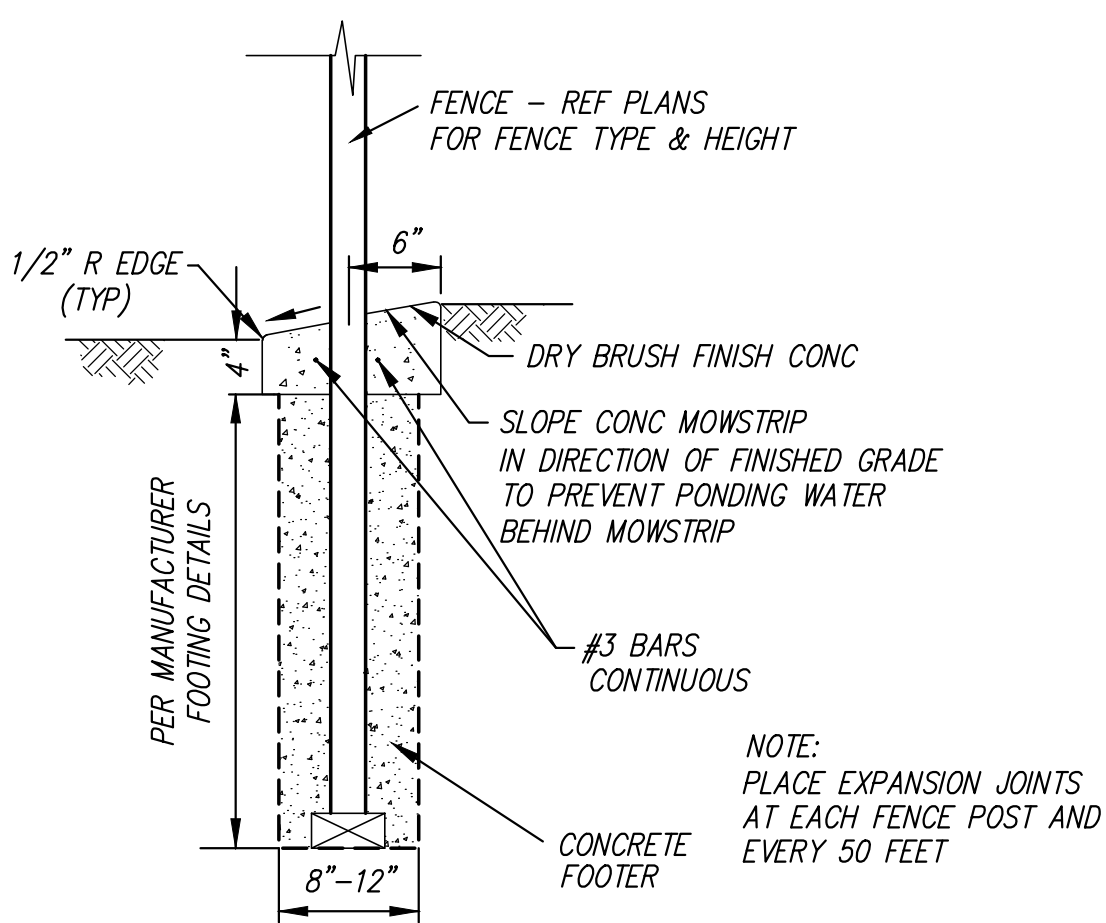
## TYPICAL SIDEWALK

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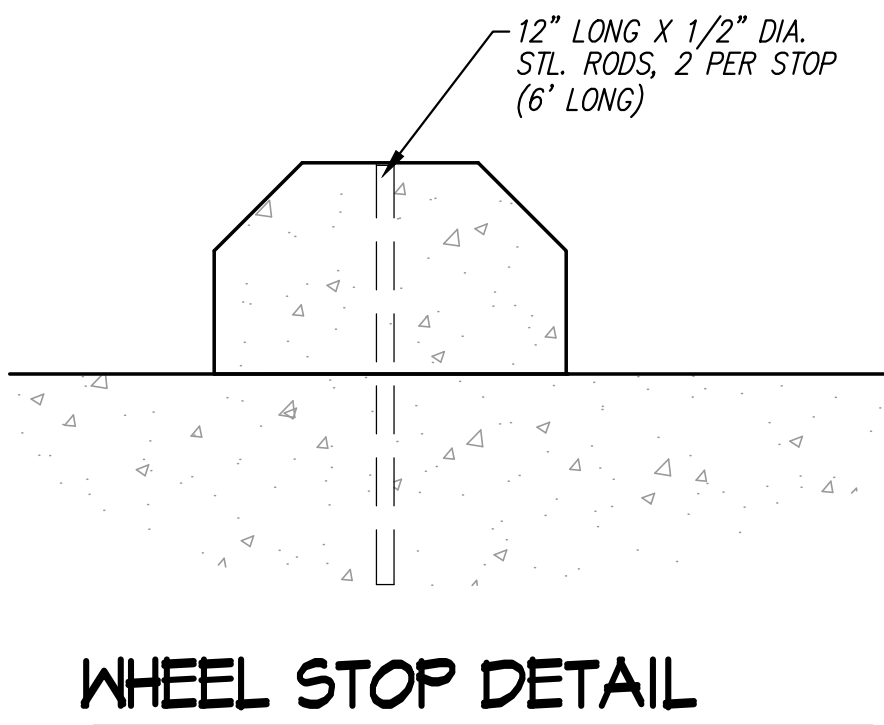
## FOOTING DETAILS

N.T.S.



## FENCE W/ MOWSTRIP

N.T.S.



## WHEEL STOP DETAIL

N.T.S.



## 9150 VEHICULAR SLIDE GATE OPERATOR



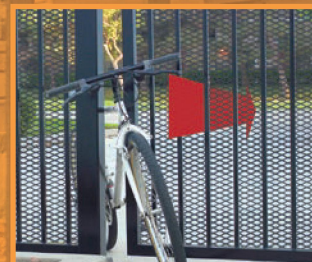
### Quiet, reliable & outstanding safety features

- Electronic magnetic limits eliminate old style mechanical switches that can wear out, break or fail
- Automatic self-setting limits mean no limit switch adjustments - ever
- Safety - built-in mechanical and electronic reverse system
- Advanced microprocessor control board features programming switches to set the mode of operation required and has ports for DKS plug-in loop detectors to simplify wiring
- 5-Year limited warranty

Metal Cover

Polypropylene Cover

RESIDENTIAL • COMMERCIAL • INDUSTRIAL



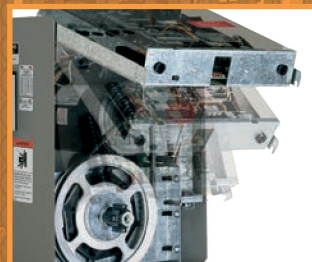
Entrapment Prevention reverses gate when obstructed



Gate Tracker™ record users access



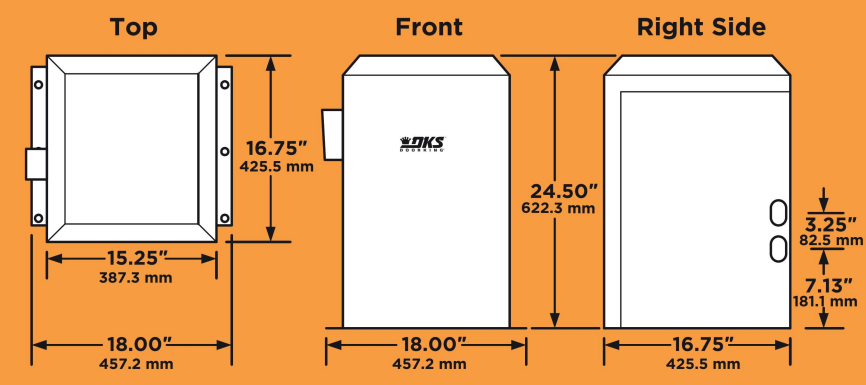
Fail-safe Release never be locked out (or in)



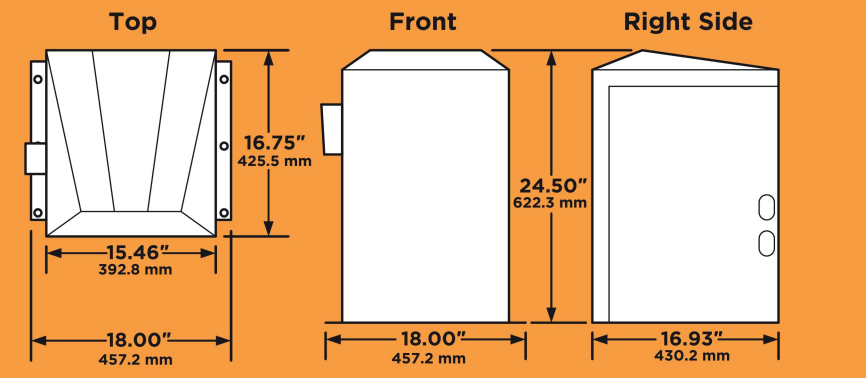
Unique Design allows easy access to all mechanical parts

## ACCESS CONTROL SOLUTIONS

### 9150 VEHICULAR SLIDE GATE OPERATOR



Metal Cover



Polypropylene Cover

9150	1/2 HP	1 HP
CLASS OF OPERATION	I, II, III, IV	I, II, III, IV
MAX GATE LENGTH*	30 ft (9.1 m)	45 ft (13.7 m)
MAX GATE WEIGHT*	1000 lb (454 kg)	1500 lb (680 kg)
MOTOR	1/2 HP Continuous Duty A.C. Motor	1 HP Continuous Duty A.C. Motor
INPUT	115 VAC, 60 Hz, 5.4A, 208 VAC, 60 Hz, 2.8A** 230 VAC, 60 Hz, 2.7A** 460 VAC, 60 Hz, 1.4A**	115 VAC, 60 Hz, 9.7A, 208 VAC, 60 Hz, 5.0A** 230 VAC, 60 Hz, 4.9A** 460 VAC, 60 Hz, 2.7A**

\* Assumes gate is on level ground. In good condition with properly adjusted hardware. Other external factors may affect the performance of the gate operator.  
\*\* These operators use a step-down transformer to achieve 115 VAC operating voltage.

DoorKing Inc.  
Access Control Solutions since 1948

120 S. Glasgow Avenue,  
Inglewood, California 90301 U.S.A.  
Tel: 310-645-0023 FAX: 310-645-0586  
www.doorking.com

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AFA American Fence Association

IDA

NOMMA

SIA

NATIONAL FENCING ASSOCIATION

MADE IN USA

### TECHNICAL FEATURES

#### MECHANICAL

Frame: G90 galvanized steel to prevent rusting  
Cover: Steel or polypropylene cover available  
Primary Reduction: Single cog belt  
Speed: Approximately 10 in/sec (254 mm/sec)  
Chain: Unit is shipped with 20 ft (6 m) of #40 roller chain, chain brackets, hardware  
Fail-safe release standard

#### GATE TRACKER™

Reporting output provides operator data to a DKS 1833, 1835, 1837 or 1838 access control system (requires 2358 expansion board)

#### OPTIONS

Heater kit for cold weather environments  
Base plate for post mounting  
Fail-secure release kit

#### ELECTRICAL

Automatic limit adjustment  
Auto-close timer 1-23 sec  
Selectable stop / reverse loop function  
Built-in On / Off switch  
Built-in alarm reset switch  
Programming switches allow you to set desired mode of operation  
Partial-open and anti-tailgating features  
Two 115 VAC convenience outlets for accessory transformers  
Automatically assumes fail-safe mode when an entrapment condition exists  
Ports for plug-in open and reverse loop detectors (DKS plug-in detectors only)

#### MISCELLANEOUS

Environmental: 10°F to 140°F (-12°C to 62°C)  
Thermostatically controlled heater kit recommended for colder environments.  
Operator requires monitored Type B1 and/or Type B2 entrapment protection devices  
Shipping weight approximately 125-185 lb (68-84 kg)

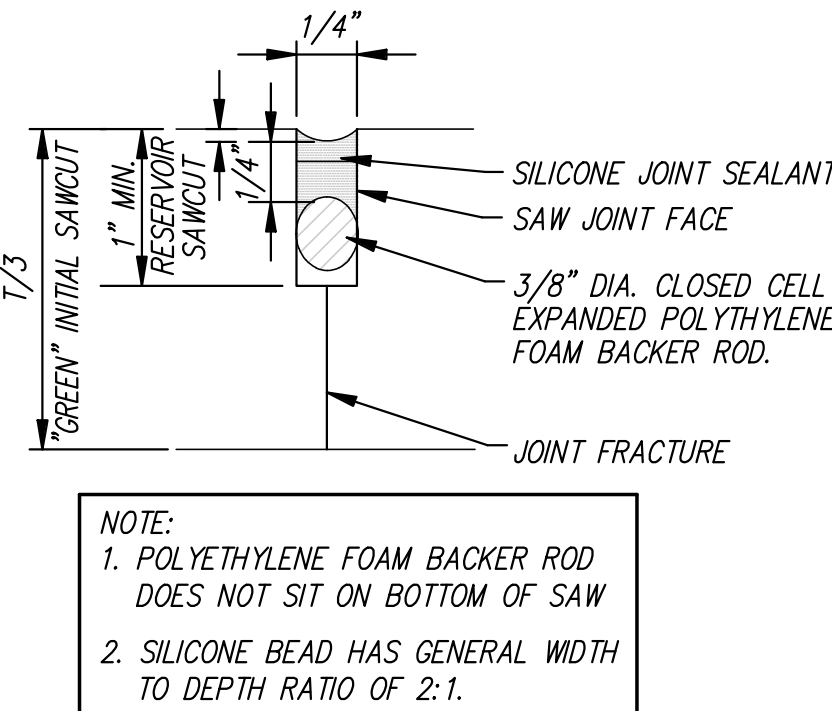
Conforms to ANSI/CANUL 325-2017 Ed. 7  
Certified to CSA C22.2 #247

Interlock

DISTRIBUTED BY:

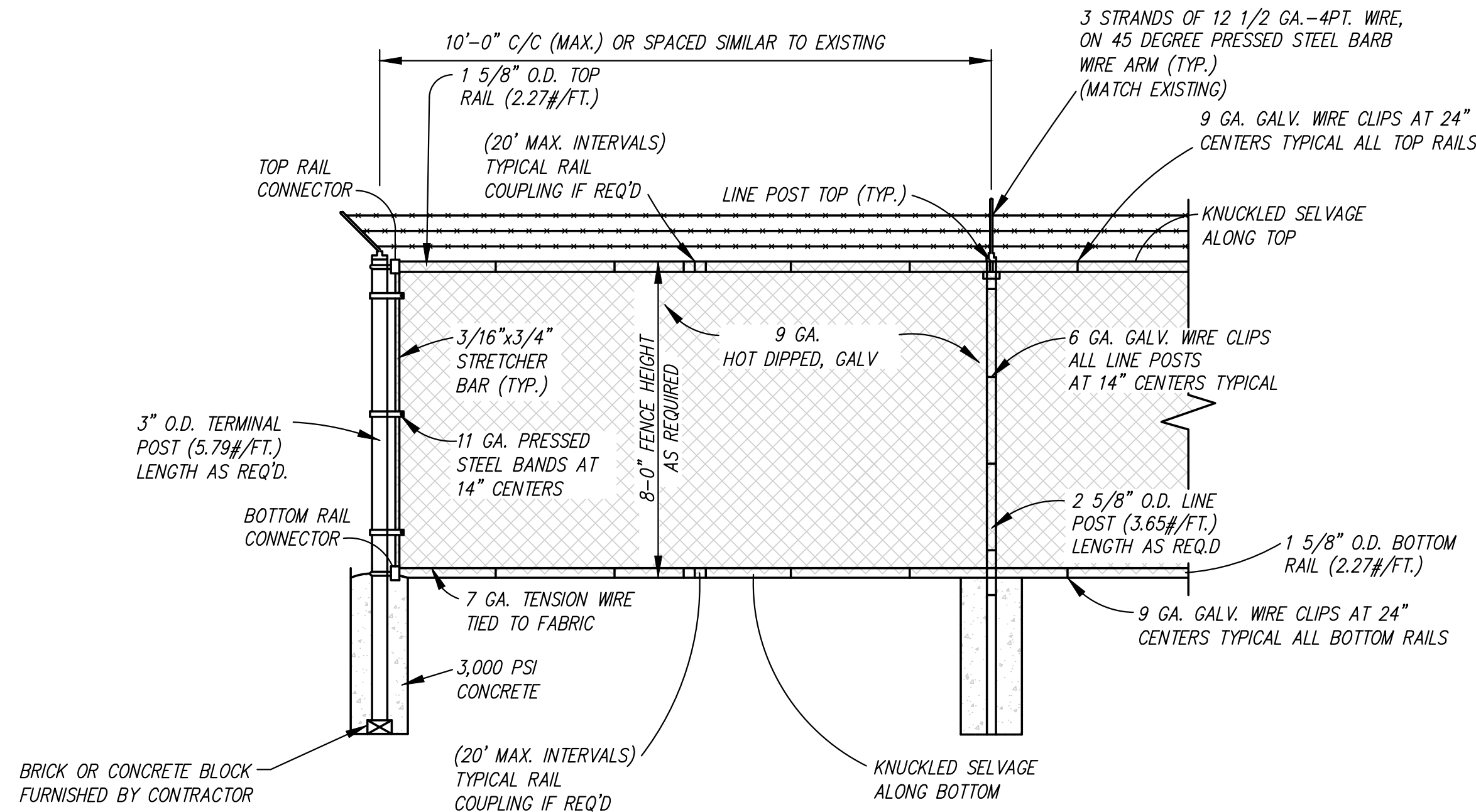
## GATE MOTOR

N.T.S.



## SAWED DUMMY JOINT SEAL

N.T.S.



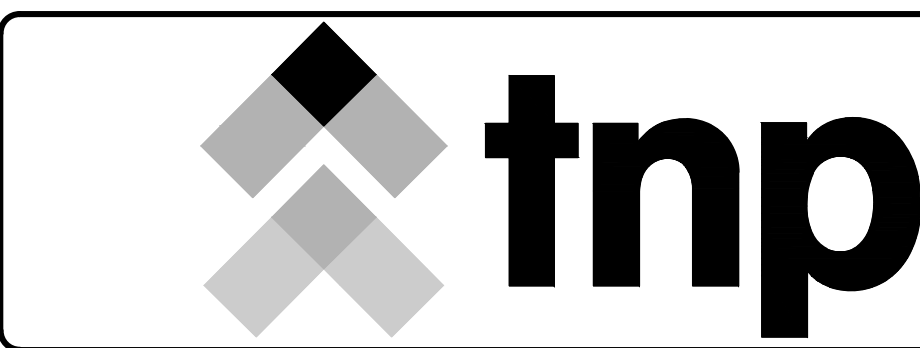
## 8' GALVANIZED CHAIN-LINK FENCE W/ BARB WIRE

N.T.S.

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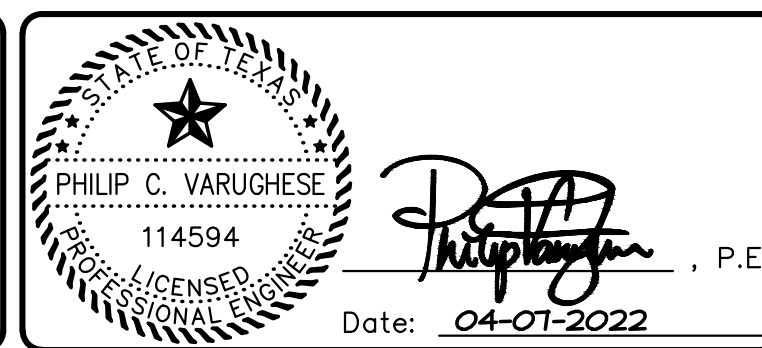


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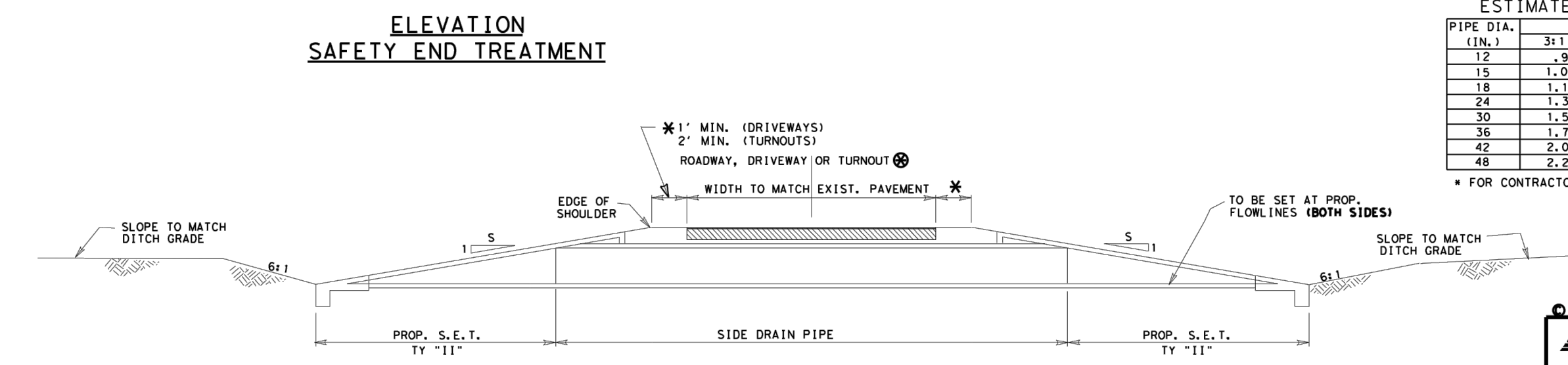
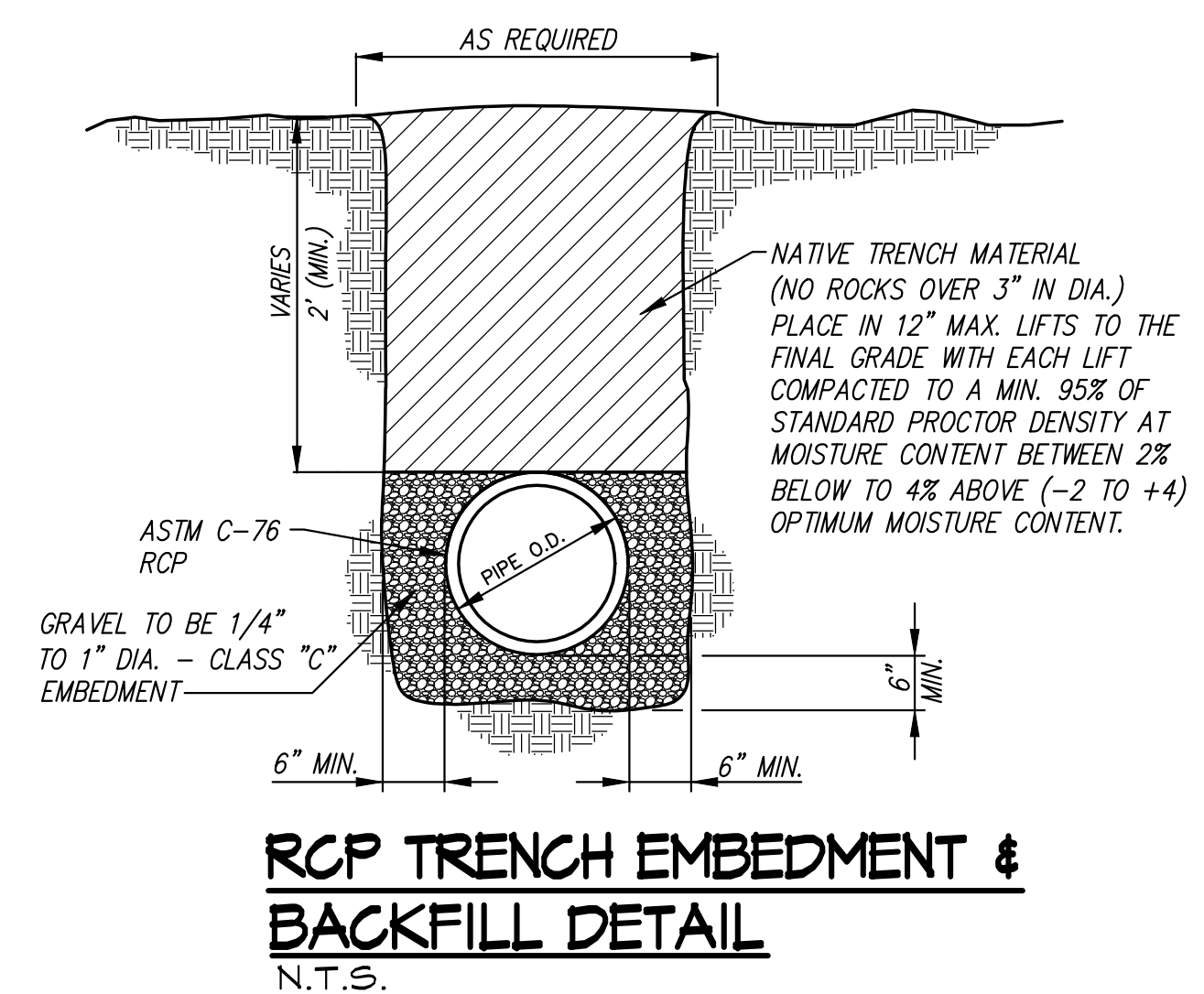
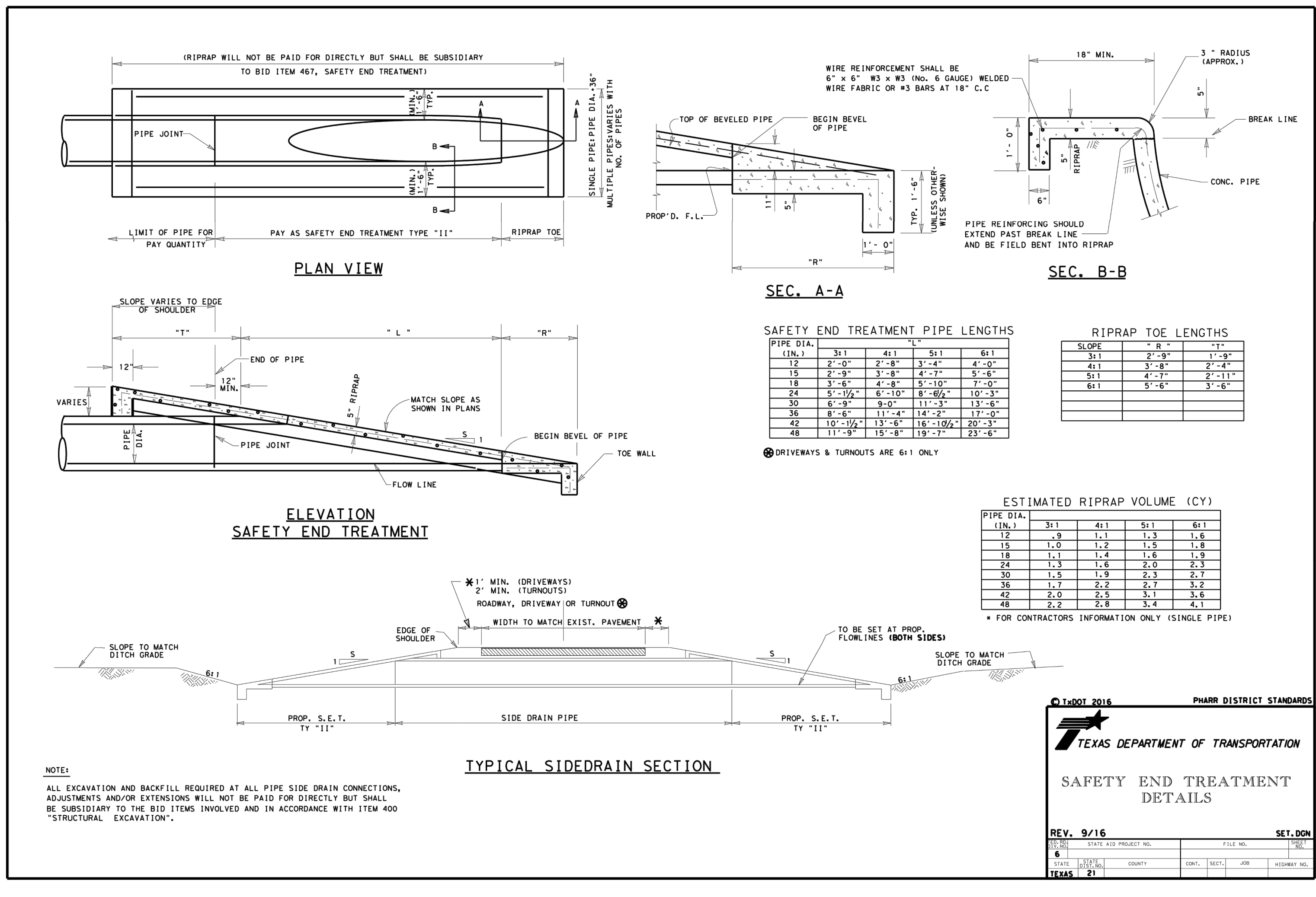
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City of Midlothian, Texas
Parking Lot to Serve
Randall Hill Support Center
SITE & PAVING DETAILS

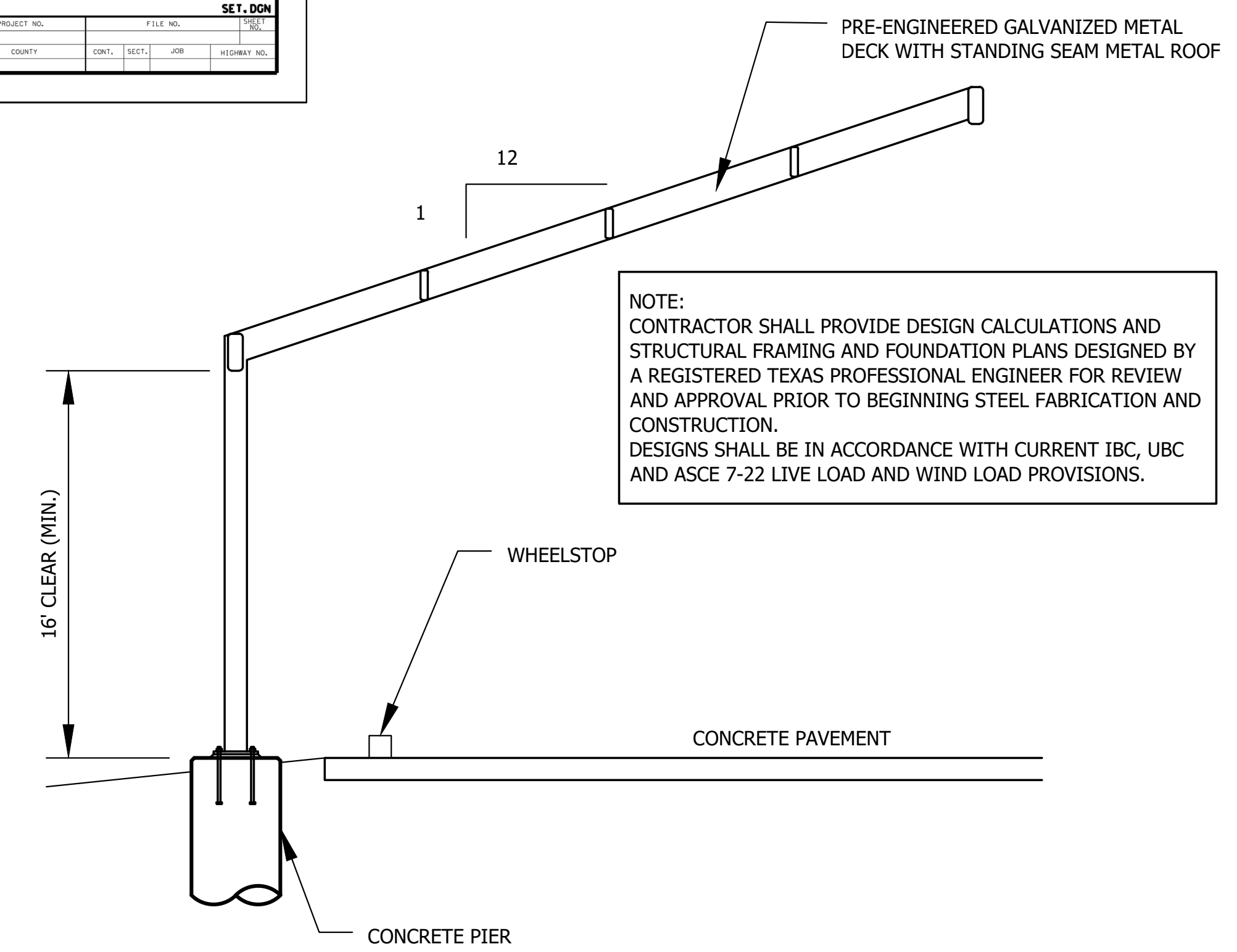
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C1.10





NOTE:

ALL EXCAVATION AND BACKFILL REQUIRED AT ALL PIPE SIDE DRAIN CONNECTIONS, ADJUSTMENTS AND/OR EXTENSIONS WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE SUBSIDIARY TO THE BID ITEMS INVOLVED AND IN ACCORDANCE WITH ITEM 400 "STRUCTURAL EXCAVATION".



CANOPY STRUCTURE

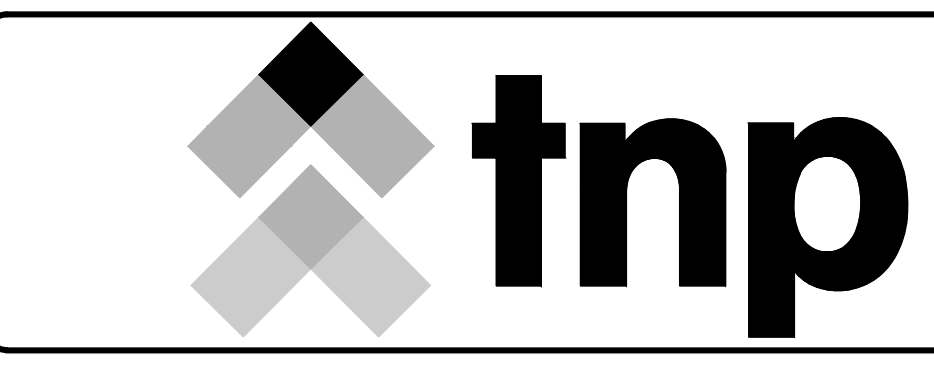
N.T.S.

- GENERAL STRUCTURAL NOTES:
1. CONCRETE SHALL BE IN ACCORDANCE WITH THE ACI BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, ACI 318.
  2. ALL CONCRETE SHALL BE NORMAL WEIGHT CONCRETE AND HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS.
  3. DEFORMED STEEL REINFORCING BARS SHALL CONFORM TO ASTM A 615 GRADE 60. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185.
  4. STRUCTURAL STEEL SHALL CONFORM TO ASTM A992. ALL MISC. STEEL PLATES, ANGLES, THREADED RODS AND BARS SHALL CONFORM TO ASTM A36.
  5. CIRCULAR, SQUARE AND RECTANGULAR HOLLOW STRUCTURAL SECTIONS (HSS) SHALL CONFORM TO ASTM A500, GRADE C REQUIREMENTS.
  6. DETAIL, FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL COMPLY WITH THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", AISC "CODE OF STANDARD PRACTICE" AND ALL UPDATING PUBLICATIONS.
  7. WELDING SHALL CONFORM TO THE AMERICAN WELDING SOCIETY SPECIFICATION. ELECTRODES SHALL CONFORM TO AWS A5.5, E70XX
  8. ALL MISC. WELDS (FIELD OR SHOP) SHALL BE MINIMUM SIZE FILLET ALL AROUND IN ACCORDANCE WITH AISC. WELDING OF CONTINUOUS MEMBERS SHALL BE A MINIMUM OF 2 INCHES OF 3/16 - INCH FILLET STITCH WELDS AT 12 INCHES O.C., STAGGERED EACH SIDE, UNLESS OTHERWISE NOTED. COLUMN BASE PLATES, CAP PLATES AND STIFFENER PLATES SHALL BE WELDED ALL AROUND.
  9. ANCHOR BOLTS SHALL COMPLY WITH ASTM F1554 AND SHALL BE SET USING RIGID TEMPLATES.
  10. BURNING OF HOLES IN STRUCTURAL STEEL IS PROHIBITED. ANY MEMBER WITH BURNED HOLES SHALL BE REPLACED.
  11. ALL STRUCTURAL STEEL SHALL BE HOT DIP GALVANIZED PER ASTM A123 REQUIREMENTS.

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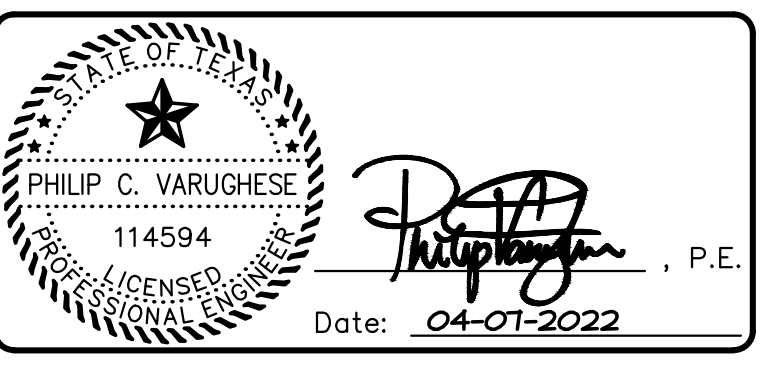
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City of Midlothian, Texas

Parking Lot to Serve

Randall Hill Support Center

SITE & STORM DRAIN DETAILS

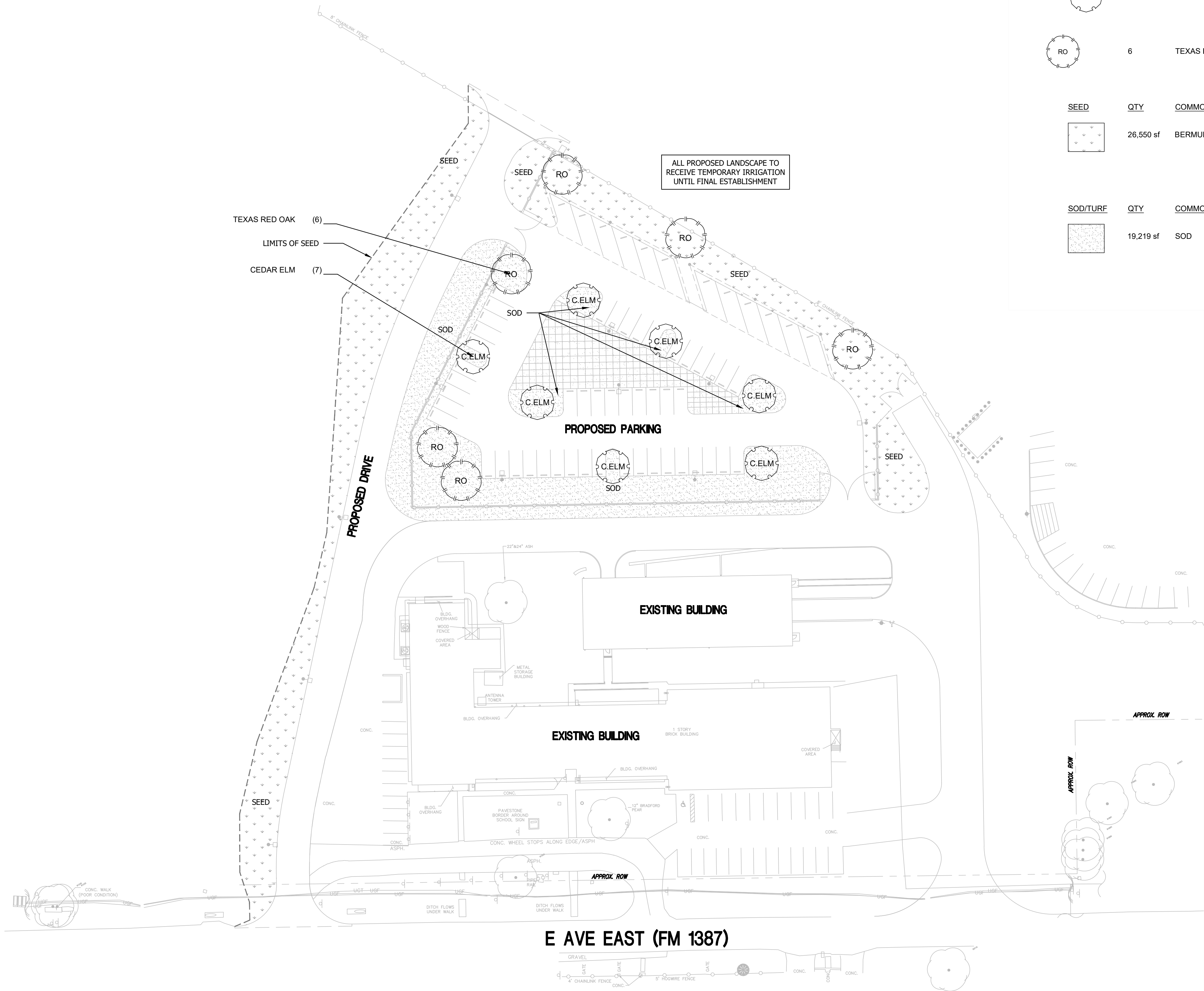
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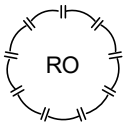
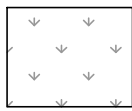
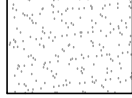
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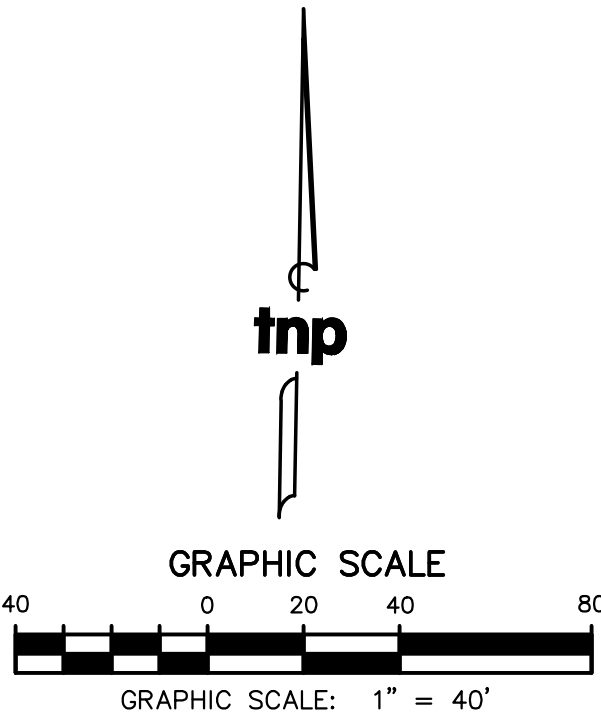
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PLANT SCHEDULE

TREES	QTY	COMMON NAME	BOTANICAL NAME	SIZE	HEIGHT	SPREAD	SPACING	REMARKS
	7	CEDAR ELM	Ulmus crassifolia	4" Cal.	14'-16'	6'-8'	As shown	CONTAINER GROWN, FULL DENSE HEAD, SYMMETRICAL, SINGLE, STRAIGHT TRUNK
	6	TEXAS RED OAK	Quercus buckleyi	4" Cal.	14'-16'	6'-8'	As shown	CONTAINER GROWN, FULL DENSE HEAD, SYMMETRICAL, SINGLE, STRAIGHT TRUNK
SEED	QTY	COMMON NAME	BOTANICAL NAME	SIZE	HEIGHT	SPREAD	SPACING	REMARKS
	26,550 sf	BERMUDA HYDROMULCH	Cynodon dactylon	Hydromulch seed	n/a	n/a	n/a	Ref. Planting Notes and Specifications. Add SF for slopes, cut, and waste. Add Alternate substitute solid sod for hydromulch.
SOD/TURF	QTY	COMMON NAME	BOTANICAL NAME	SIZE	HEIGHT	SPREAD	SPACING	REMARKS
	19,219 sf	SOD	TIF 419 Bermuda	Solid Sod	n/a	n/a	n/a	REF. PLANTING NOTES & SPECIFICATIONS. ADD SF FOR SLOPES, CUT, & WASTE.



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**MIDLOTHIAN ISD**  
INSPIRING EXCELLENCE

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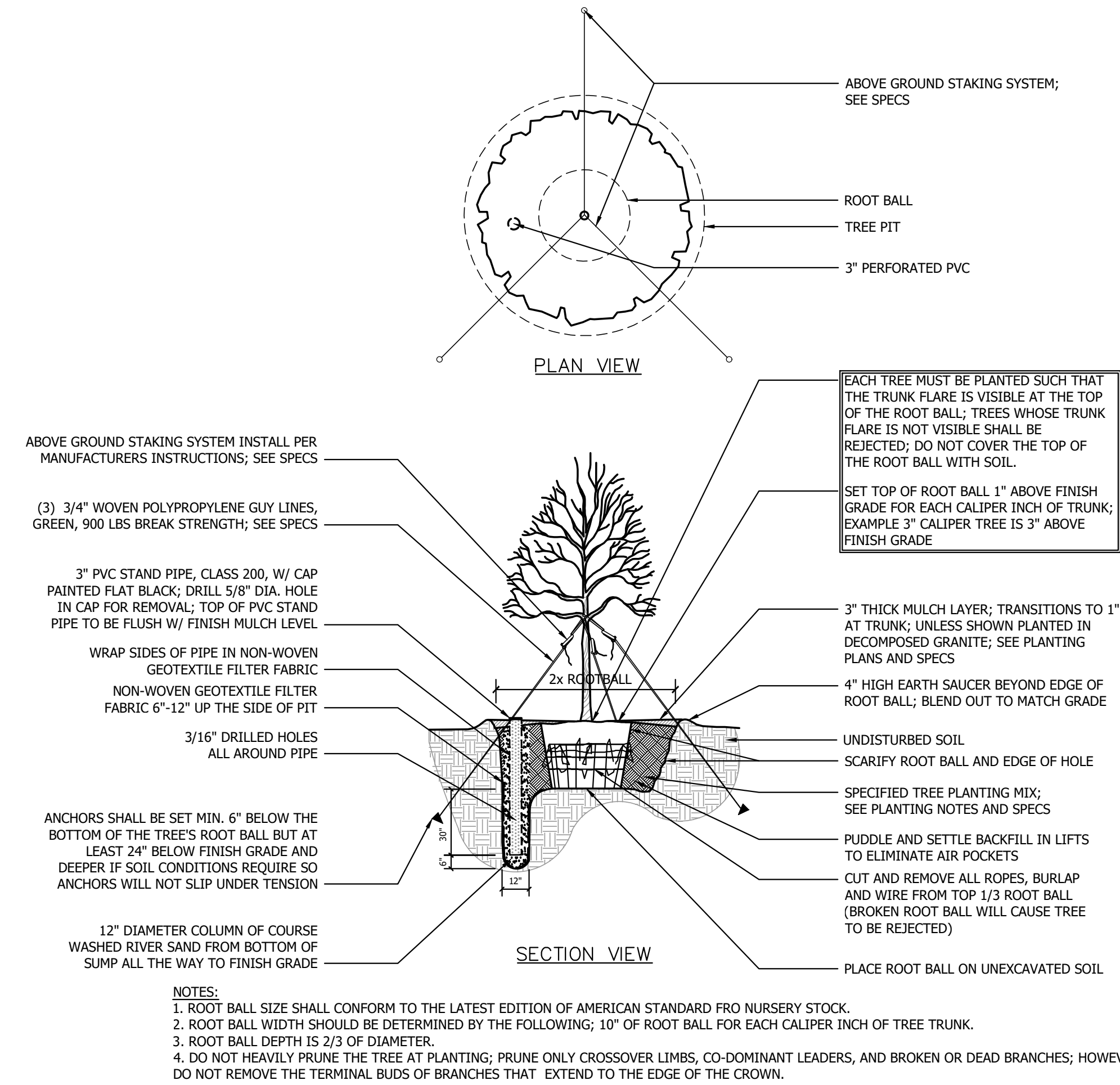
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REGISTERED LANDSCAPE ARCHITECT  
JUL L. MANNING  
3207  
STATE OF TEXAS  
04/01/2022

City of Midlothian, Texas  
Parking Lot to Serve  
**Randall Hill Support Center**  
**LANDSCAPE PLAN**

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**A TREE PLANTING**

NTS

**PLANTING NOTES**

**SECTION 1 - GENERAL**

- These notes are intended as a field reference for the Contractor. The Contractor will thoroughly review these notes, specifications and the drawings prior to start of any work. The Contractor shall visit the site prior to submitting his bid and prior to start of work to become completely familiar with site conditions.
- It is the responsibility of the contractor to advise the Landscape Architect (hereinafter, LA) of any condition found on the site which prohibits installation as shown on these drawings.
- Prior to submitting a bid, the Contractor shall verify any discrepancies between the notes, specifications, or the drawings with the LA for clarification. If there is a discrepancy between the quantity of materials shown on the plans and the quantity of materials shown in the materials legends, the greater quantity will take precedence for bidding purposes. All quantities listed are for information only. It is the contractor's responsibility to provide full coverage of materials in all areas.
- Written dimensions prevail over scaled dimensions. Notify landscape architect of any discrepancies
- The Contractor bears all responsibility for obtaining all licenses and permits required by federal, state, and local agencies to accomplish the work of this project.
- Contractor shall complete soil test in all planting areas to determine soil amendment requirements and submit test results to LA for approval. Contractor shall adjust pH and fertility based upon these results. No addition to or placement of soil is to be done prior to initial soil test report approval. Testing shall be done by LA approved laboratory. No planting shall begin until results and proper adjustment have been made. It is the Contractor's responsibility to ensure proper drainage and fertility of all planting areas.
- Coordinate all work with the project's building contractor or owner.
- Warning! Call toll-free 811 *before* you dig! The contractor bears all responsibility for verifying all underground utilities, pipes, and structures in the field prior to construction. Any damage to utilities that are to remain shall be repaired immediately at no expense to the owner. The Contractor shall contact the building contractor and all utility authorities to mark location of site utilities. Install flags or stakes and maintain them in place throughout the project. Damage to utilities or other work shall be repaired at the expense of the contractor responsible for the damage. The locations of existing utilities as shown on these plans are approximate. There may be other underground utilities within the project area that are not shown. Landscape Architect and/or Engineer assumes no responsibility for any utilities not shown on plans.
- Due to existing vegetation and other site conditions, the Contractor should anticipate field adjustments by the LA and should understand such adjustments are not a change order.
- The Contractor shall give the LA 48 hours' notice of required inspections *upon completion* of each of the following phases:
  - Pre-Construction Conference after award of bid (on-site)
  - Construction debris/ weed clean-up (before any grading, fill, or irrigation)
  - Rough Grading (within 2" of finish grade), Utility Marking, and Tree Staking
  - Fine Grading and Tree Staking (before any tree pits are dug)
  - Tree Planting
  - Staking of Bedlines and/or Edging
  - Shrub Planting
  - Substantial Completion
  - Final Acceptance
- Contractor shall guarantee all plant material for one (1) full year from date of final acceptance. The cutting off of water or electricity by other trades or persons shall not void the warranty.
- It is the contractor's responsibility to insure the availability of water to the plants at all times until final acceptance. The contractor shall reject and replace all trees with tip-dieback of more than one (1) inch over the entire canopy of the tree and replace all shrubs or plants with any dieback. All rejected plant material shall be replaced with specified plant material within 14 calendar days at the contractor's expense.
- LA assumes no responsibility for damages, liabilities, or cost resulting from changes or alterations made to the plan without the express written consent of LA.
- All materials, locations, and workmanship are subject to approval or refusal by the LA. All materials, locations, and workmanship rejected by the LA shall be remedied at the Contractor's expense.

**SECTION 2 - MATERIALS**

- The Contractor shall check all material for specified requirements, shipping damage, pests, and diseases and shall reject all unsatisfactory materials. All plant material is to be carefully handled by the root ball, not the trunk, branches, and/or foliage of the plant. Mishandled material will be rejected. B&B material shall be "hardened off" after digging for at least 90 days and have at least 10" of rootball for every caliper inch. All material rejected by the LA shall be removed from the site and replaced with acceptable material at the Contractor's expense
- Plants shall be well formed, vigorous, growing specimens with growth typical of variety specified and shall be free from injury, insects, and diseases. All plant material is to be well rooted, not root bound, such that the root ball remains intact throughout the planting process. The Contractor shall reject all cracked root balls. All plant material shall conform to the specifications and sizes shown in the plant list and shall be nursery grown in accordance with the latest edition (ANSI Z60.1) of "American Standard for Nursery Stock." Any plant substitution shall be approved by landscape architect prior to purchase. Trees with co-dominant stems shall be rejected.
- Do not make substitutions. If specified material is not available, submit proof of non-availability to LA.
- All planting areas shall have organic topsoil that is natural, well-drained, friable, fertile, sandy-loam. Sandy-loam is to be pH 6.5-7.5. Heavy clays, limestone, poorly drained bottomland soil, silt, or alluvial soils are not allowed in any planting areas. Topsoil shall be free of harmful insects or nematodes, soil-borne diseases, toxins, select fill, inorganic subsoils, heavy metals, trash, petroleum by-products, rocks over 1/2" in diameter, rubble, roots, and weeds or weed seeds. Contractor shall submit a 2-cup sample in a gallon-size baggie to Landscape Architect before delivery of any soil to the site or placement of any soil in planting areas.
- Sod shall consist of live growing plants secured from sources which have dense, thickly matted root system throughout the soil of the sod for a minimum of one inch. Sod shall be free of weeds or other varieties of grasses.
- Sod shall not be used where the roots are dried because of sun or wind. The landscape architect has the right to reject any or all of sod due to lack of care, improper cutting, or other agronomic problems.

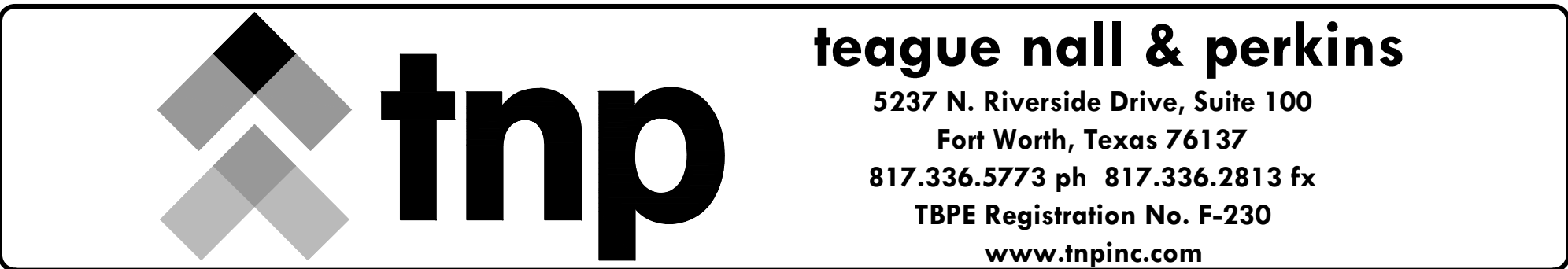
**SECTION 3 - EXECUTION**

- The Contractor shall *thoroughly* remove from the construction site all limestone larger than 1/2" in diameter and all heavy clay to these depths: 6" minimum in turf and seed areas, and 18" minimum in planting beds. The LA shall verify that this is complete before the Contractor is authorized to proceed with fill of specified topsoil or grading. Scarify subsoil after removal of rock or heavy clay before adding topsoil so as to break up any surface tension.
- The Contractor shall thoroughly remove from the construction site all the following particles that are larger than 3/4" in diameter: inorganic select fill, heavy clay, limestone, and construction debris, mortar, concrete, paint, chemicals, weeds, plastic, paper, steel, mortar, masonry, construction debris, and other substances that are harmful to plant growth. Remove the above items to these depths: 6" minimum in turf and seed areas, and 18" minimum in planting beds. The LA shall verify that the above items are removed before the Contractor is authorized to proceed with fill with specified topsoil or grading. DO NOT PLACE ANY FILL ON CONSTRUCTION DEBRIS.
- Mow curbs shall be used at all planting bed edges when they are adjacent to lawn (see detail). Unless otherwise shown on plans, mow curbs shall intersect curbs, sidewalks, and buildings at 90 degrees (square). Mow curbs shall have expansion joints every 50' and at all abutments to other hardscape elements. Construction joints shall be saw cut at 10' on center. Mow curbs shall have curves that are smooth, flowing, and consistent in nature. Mow curbs with straight lines shall be straight. All formwork shall be within a 1/2" tolerance of drawings. No mow curb shall have a radius smaller than 72" unless specifically called out on drawings.
- Contractor shall fine grade all areas for approval by LA. Contractor shall be responsible for providing 2% positive drainage in all planting areas. No planting or mulching will take place until all construction, clean-up, fine grading, and irrigation is complete in the immediate area. Final finish grading shall be reviewed by the LA before any planting takes place. Contractor shall be responsible for any additional topsoil required to create a smooth condition prior to planting.
- All planting beds shall be amended as per plans details and specs. Submit trip tickets to L.A. for approval of quantity and type of materials.
- All sod and seed areas shall be amended as per plans and specifications.
- Scarify all rootballs (#1 and larger) to prevent plants from remaining pot-bound. This is to be done by hand or with a 3-prong cultivator but never with a shovel or machete.
- Place shrubs and groundcovers so that the top of the rootball is 1/4" to 1/2" above finish grade. Trees shall be set 1" above finish grade for each caliper inch of trunk. Example: A 3" tree shall be set 3" above finish grade.
- Water in and compact planting backfill to prevent formation of air pockets.
- Plants shall be set plumb, unless otherwise directed by LA.
- Back row of shrubs shall be planted 36" from face of building wall, groundcovers shall be 12" from building or as required by conditions. Front row of shrubs shall be planted a minimum of 24" behind (12" for ground cover) bed lines at lawns or walks and minimum 36" back from curbs, driveways, and parking areas.
- After planting, remove strapping, wire "ears" and string, cords, burlap, etc. from top of B&B rootballs.
- All planting beds and trees shall be mulched with 3" of mulch (2.5" after settlement).
- All trees are to be stabilized per detail and specs immediately after planting.
- All sod areas shall be thoroughly graded and smoothed with at least 8 passes in different directions using a drag-behind system such as a bunker rake or other device until very smooth and within 1/4" of specified grade (see civil sheets for grading plans).
- Prior to sod installation, a fertilizer shall be applied and tilled into the prepared soil. Application must be done no longer than 24 hours prior to installation of sod. Do not apply fertilizer when a possibility of rain might occur before sod is installed. Reference specifications for specific type of fertilizer to be used.
- Lay sod in parallel rows with tight joints. All sod must be placed perpendicular to slopes and staggered no less than 12" on each row. Slopes greater than 4:1 must be held in place with galvanized sod pins, wood pegs, or other method approved by LA. All sod shall be rolled with a 5-ton mechanical roller in at least two directions within 24 hours of laying. All sod areas shall be barricaded with wood stakes and ribbon for no less than 7 days.
- Plant material shall be pruned as necessary to control size but not to disrupt the natural growth pattern or characteristic form of the plant except as necessary to achieve height clearance for visibility and pedestrian passage or to achieve a continuous opaque hedge if required.
- All plant material shall be fully-maintained in a healthy and growing condition until final acceptance, and must be replaced with plant material of same variety and size if damaged, destroyed, or removed. This includes mowing, pruning, watering, and weeding.
- Landscaped areas shall be kept free of trash, weeds, debris, and dead plant material until final acceptance. Any damage to landscape areas shall be repaired at no cost to owner.

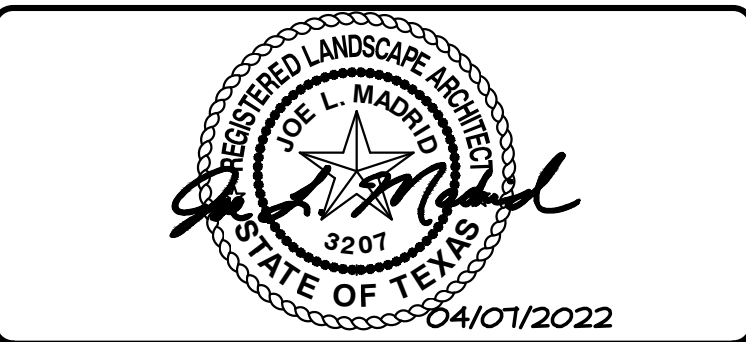
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City of Midlothian, Texas
Parking Lot to Serve
<b>Randall Hill Support Center</b>
<b>LANDSCAPE DETAILS</b>

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DIVISION 26 ELECTRICAL SPECIFICATIONS

A. GENERAL

1. PROVIDE ALL EQUIPMENT MATERIALS, LABOR, SUPERVISION AND SERVICES NECESSARY FOR, OR INCIDENTAL TO, THE INSTALLATION OF A COMPLETE AND OPERATING ELECTRICAL SYSTEM AS SHOWN OR INDICATED ON THE DRAWINGS AND/OR SPECIFIED. CONTRACTOR SHALL TAKE PROPER PRECAUTIONS TO PROTECT ALL EXISTING OPERATIONS AND PROPERTY ADJACENT, WITH WHICH WORK COMES IN CONTACT. MOVE MATERIALS, EQUIPMENT, DEBRIS, ETC., AND SHALL SATISFACTORILY REPAIR ALL DAMAGE CAUSED DURING CONSTRUCTION. THE CONTRACTOR SHALL REPLACE FAILING MATERIALS AND/OR EQUIPMENT WITH NEW MATERIALS AND/OR EQUIPMENT TO GIVE SATISFACTORY SERVICE DURING THE GUARANTEE PERIOD. THE CONTRACTOR SHALL COORDINATE AND NOTIFY THE OWNER FOR APPROVAL AND SCHEDULING OF ANY EXISTING BUILDING SYSTEM INTERRUPTIONS.
2. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED RECOMMENDATIONS FOR INTENDED USE, AS INTERPRETED BY THE ARCHITECT. THE INSTALLATION OF ALL EQUIPMENT SHALL BE MADE BY EXPERIENCED CRAFTSMEN IN A NEAT, WORKMANLIKE MANNER. ALL MATERIALS, TOOLS, COSTS, AND SERVICES NECESSARY TO COMPLETELY INSTALL ALL ELECTRICAL WORK SHALL BE FURNISHED BY THE CONTRACTOR.
3. MATERIALS AND WORKMANSHIP SHALL COMPLY WITH CONTRACT DOCUMENTS, APPLICABLE CODES & STANDARDS. IN CASE OF DIFFERENCE BETWEEN APPLICABLE CODES & STANDARDS AND THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ARCHITECT IN WRITING OF SUCH DIFFERENCE. SHOULD THE CONTRACTOR PERFORM ANY WORK THAT DOES NOT COMPLY WITH THE REQUIREMENTS OF APPLICABLE CODES AND STANDARDS, THE CONTRACTOR SHALL BEAR ALL COSTS RELATED TO THE CORRECTION OF SUCH CONFLICTS.
4. THE CONTRACTOR SHALL VISIT THE PREMISES TO BECOME THOROUGHLY FAMILIAR WITH ALL DETAILS OF THE WORK, WORKING CONDITIONS AND VERIFY ALL DIMENSIONS IN THE FIELD, AND SHALL ADVISE THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO BIDDING OR PERFORMING ANY WORK.
5. IT IS THE INTENT AND MEANING OF THE CONTRACT DOCUMENTS THAT THE CONTRACTOR SHALL PROVIDE AN ELECTRICAL INSTALLATIONS THAT ARE COMPLETE AND INCLUDE ALL ITEMS AND APPURTENANCES NECESSARY, REASONABLY INCIDENTAL, OR CUSTOMARILY INCLUDED, EVEN THOUGH EACH AND EVERY ITEM IS NOT SPECIFICALLY CALLED OUT OR SHOWN.
6. CONTRACTOR SHALL COORDINATE ALL MECHANICAL AND PLUMBING EQUIPMENT, SIZES AND LOCATIONS WITH MECHANICAL & PLUMBING DRAWINGS AND SPECIFICATIONS. PROVIDE REQUIRED ELECTRICAL DISCONNECT SWITCHES, FUSES, CIRCUIT BREAKERS, BRANCH CIRCUITS, CONTROL CONDUITS AND CONDUCTORS NECESSARY FOR PROPER OPERATION. IT IS THE CONTRACTORS RESPONSIBILITY TO PROVIDE LABOR AND MATERIALS AND TO INSTALL FULLY FUNCTIONAL SYSTEMS IN ACCORDANCE WITH THE INTENT DISPLAYED IN THESE DOCUMENTS AND TO COMPLY WITH ALL CODES.
- B. CODES AND STANDARDS
1. CONTRACTOR SHALL COMPLY WITH LATEST INDUSTRY STANDARDS, CODES, OR ORDINANCES, RULES, REGULATIONS, ORDERS AND OTHER LEGAL REQUIREMENTS.
- C. SUBMITTAL DATA
1. SUBMITTAL DATA SHALL INCLUDE BUT IS NOT LIMITED TO, THE FOLLOWING:

a. BUSINGS; LOCKOUTS AND CONNECTORS; WIREWAYS, RACEWAYS, JUNCTION, PULL AND OUTLET BOXES.

b. CONDUCTORS 600V OR LESS.

c. FIRE STOPPING.

d. GROUNDING CONDUCTORS AND CONNECTORS.

e. IDENTIFICATION NAMEPLATES.

f. WIRING DEVICES.

g. SUPPORTING DEVICES.

h. 600V AND BELOW: PANELBOARDS, CIRCUIT BREAKERS, MOTOR STARTERS AND DISCONNECTS.
- D. TEMPORARY WORKING ACCESS
1. REMOVE EXISTING WIRES, CONDUIT, EQUIPMENT, FIXTURES, AND OTHER ITEMS AS REQUIRED TO PROVIDE ACCESS FOR WORK IN EXISTING FACILITY.
2. REINSTALL AND REFINISH ITEMS TO REMAIN THAT WERE REMOVED, OR OTHERWISE DAMAGED, TO MATCH EXISTING ADJACENT SURFACES UPON COMPLETION OF THE WORK.
- E. DISRUPTION OF EXISTING FUNCTIONS
1. ACCESS: ACCESS TO AND USE OF THE EXISTING FACILITIES AND SITE WILL BE RESTRICTED, AND SHALL BE UNDER THE DIRECTION AND CONTROL OF THE OWNER OR SITE MANAGER.
2. DISRUPTIONS: MAINTAIN EXISTING ELECTRICAL, COMMUNICATIONS, ALARM, AND OTHER EXISTING SYSTEMS, AND MAINTAIN EXISTING FUNCTIONS IN SERVICE EXCEPT FOR SCHEDULED DISRUPTIONS.
3. SCHEDULING OF DISRUPTIONS: SEEK AND OBTAIN APPROVAL THREE DAYS IN ADVANCE OF EVENT FOR DATE, STARTING TIME, AND DURATION OF EACH REQUIRED DISRUPTION.
4. NOTICE OF DISRUPTION: DATE, TIME AND DURATION OF EACH DISRUPTION SHALL BE SUBJECT TO THE OWNER OR SITE MANAGER'S PRIOR APPROVAL, AND SHALL INCLUDE THE ABOVE INFORMATION IN THE FORM OF A MEMORANDUM SUBMITTED BY THE CONTRACTOR TO THE OWNER OR SITE MANAGER FOR APPROVAL.
- F. MOUNTING SUPPORTS
1. PROVIDE APPROPRIATE MOUNTING SUPPORTS WITHIN THE BUILDING ELEMENTS AS REQUIRED FOR INSTALLATION OF PANELBOARDS, ACCESS PANELS, JUNCTION BOXES, CONDUITS, PULL BOXES, AND OTHER DEVICES AND CABINETS WHICH INSTALL SURFACE AND/OR RECESSED INTO WALLS, FLOORS AND CEILINGS. NO PERFORATED STRAPS OR TIE WIRES SHALL BE PERMITTED.
2. PROVIDE UNISTRUT BEHIND PANELS MOUNTING TO CMU WALLS.
3. USE CAST "C" CLAMPS, "U" STRAPS OR RING HANGERS ATTACHED TO RODS, AND/OR BRACKETS FASTENED TO STRUCTURE FOR INDIVIDUAL CONDUITS.
4. SUPPORT GROUPEED RACEWAYS TOGETHER IN HORIZONTAL RUNS ON TRAPEZE HANGERS CONSTRUCTED OF UNISTRUT OR EQUAL SUSPENDED FROM CAD-PLATED STEEL RODS.
- G. FIRESTOPPING
1. PROVIDE FIRESTOPPING AND SEALING OF PENETRATIONS IN FIRE-RATED CONSTRUCTION, HORIZONTAL AND VERTICAL, UTILIZING THE FOLLOWING MATERIALS:





a. FOAM: DOW CORNING FIRESTOP SILICONE RTV FOAM, CAT #2001 OR EQUAL.

b. SEALANT: DOW CORNING FIRESTOP RTV SILICONE SEALANT, CAT #2000 OR EQUAL.

c. DAMMING MATERIALS: MINERAL FIBERBOARD, MINERAL FIBER MATTING, MINERAL FIBER PUTTY, PLYWOOD OR PARTICLE BOARD, AS SELECTED BY THE APPLICATOR.
- H. IDENTIFICATION
1. PROVIDE THE NECESSARY MEANS TO CLEARLY AND PERMANENTLY IDENTIFY EACH ITEM OF EQUIPMENT.
2. PROVIDE EQUIPMENT WITH PLASTIC NAMEPLATES, CORRELATED TO THE DESIGNATION USED ON THE DRAWINGS.
3. LABEL ALL JUNCTION BOXES WITH CIRCUIT INFORMATION OR ITS USE, I.E.: F/A, TELECOM.
- I. CONDUIT
1. PROVIDE COMPLETE RACEWAY SYSTEM FOR ALL WIRING UNLESS SPECIFICALLY NOTED OTHERWISE. THIS INCLUDES, BUT IS NOT LIMITED TO, BRANCH CIRCUIT WIRING, CONTROL WIRING, AND AUXILIARY SYSTEMS WIRING, UNLESS SPECIFIED TO THE CONTRARY HEREIN OR ON DRAWINGS. PROVIDE ADEQUATE AND STURDY SUPPORT FOR ALL PARTS OF RACEWAY SYSTEM. INSTALL NYLON PULL CORD IN ALL EMPTY ELECTRICAL RACEWAYS.
2. RACEWAYS SHALL BE SIZED AS INDICATED ON THE DRAWINGS AND AS REQUIRED BY THE NEC TO PREVENT DAMAGE TO THE CONDUCTORS. DO NOT USE RACEWAYS SIZED LESS THAN 3/4" UNLESS SPECIFIED OTHERWISE.

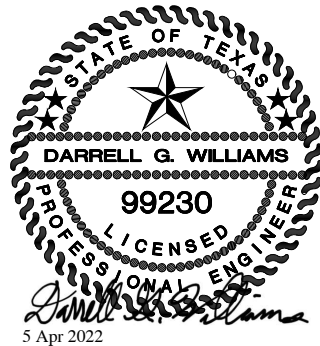
3. PROVIDE GALVANIZED RIGID METAL RACEWAYS FOR ALL USES IN DAMP AND WET LOCATIONS, IN CRAWL SPACES, IN HAZARDOUS AREAS, AND IN LOCATIONS SUBJECT TO PHYSICAL DAMAGE.
4. PROVIDE GALVANIZED ELECTRIC METALLIC TUBING WITH STEEL, WATERTIGHT, COMPRESSION TYPE FITTINGS FOR ALL OTHER USES INCLUDING CONTROL WIRING.
5. ALL EMT ENTERING BOXES SHALL BE SECURED WITH INSULATING THROAT CONNECTORS AND LOCKNUTS.
6. NO RACEWAY SHALL BE LOCATED IN PROXIMITY OF HOT WATER LINES OR EXCESSIVE HEAT.
7. PROVIDE LIQUIDTIGHT FLEXIBLE CONDUIT CONNECTION FOR FINAL CONNECTION TO EACH MOTOR NOT TO EXCEED 24 INCHES IN LENGTH.
8. COORDINATE ROUTING OF CONDUITS IN EXISTING CONSTRUCTION WITH THE OWNER.
9. ALL EXPOSED RACEWAYS SHALL BE INSTALLED WITH RUNS PARALLEL AND/OR PERPENDICULAR WITH BUILDING WALLS.
10. PENETRATIONS OF WALLS, FLOORS, AND ROOF FOR THE PASSAGE OF ELECTRICAL RACEWAYS SHALL BE APPROVED BY THE ARCHITECT. ALL SUCH PENETRATIONS SHALL BE PROPERLY SEALED OFF AFTER INSTALLATION OF RACEWAYS SO AS TO MAINTAIN THE STRUCTURAL, WATERPROOF, AND FIREPROOF INTEGRITY OF THE WALL, FLOOR, OR ROOF SYSTEM PENETRATED.
- J. JUNCTION AND PULL BOXES
1. JUNCTION AND PULL BOXES 100 CUBIC INCHES IN VOLUME AND SMALLER SHALL BE STANDARD OUTLET BOXES. THOSE LARGER THAN 100 CUBIC INCHES SHALL BE CONSTRUCTED AS SPECIFIED FOR CABINET CONSTRUCTION AND SHALL BE FURNISHED WITH COVERS. BOXES SHALL BE FACTORY-FABRICATED FROM GALVANIZED STEEL TO PREVENT CORROSION.
- K. OUTLET BOXES
1. AT EACH OUTLET SHOWN, PROVIDE A BOX OF SUITABLE SIZE AND CONSTRUCTION.
2. CEILING OUTLETS SHALL BE 4-INCH SQUARE BOXES OF THE APPROPRIATE DEPTH.
- L. PULL CORDS
1. PROVIDE IN EACH EMPTY CONDUIT A NYLON PULL CORD TO FACILITATE THE FUTURE INSTALLATION OF CONDUCTORS.
- M. SYSTEMS OF CONDUCTORS
1. PROVIDE NEW CONDUCTORS HAVING "THWN" OR "THHN" INSULATION RATED NOT LESS THEN 600 VOLTS. CONDUCTORS SHALL COMPLY WITH THE REQUIREMENTS OF THE NEC FOR THE ELECTRICAL SERVICES AND DISTRIBUTION INVOLVED.
2. NO WIRE SMALLER THAN NO. 12 AWG SHALL BE UTILIZED FOR LIGHTING OR POWER CIRCUIT, AND NONE SMALLER THAN NO. 14 SHALL BE UTILIZED FOR ANY CONTROL CIRCUIT.
3. CONDUCTORS NO. 10 AND SMALLER SHALL BE SOLID UNLESS OTHERWISE SPECIFIED OR INDICATED.
4. FOR HOME RUNS OVER 60 FEET LONG, USE MINIMUM #10 CONDUCTORS.
5. FOR HOME RUNS OVER 100 FEET LONG, USE MINIMUM #8 CONDUCTORS.
6. MAKE ALL CONNECTIONS WITH U.L. APPROVED SOLDERLESS PRESSURE TYPE INSULATED CONNECTORS: SCOTCHLOCK, OR AN APPROVED EQUAL.
- N. WIRING DEVICES AND ACCESSORIES
1. WIRING DEVICES SHALL BE FURNISHED IN COLORS WITH DEVICE PLATES OF COLORS AND MATERIALS SELECTED BY THE ARCHITECT, EXCEPT FOR DEVICES ON EMERGENCY POWER, WHICH SHALL BE RED IN COLOR.
2. WALL SWITCHES: LIGHTING CIRCUITS SHALL BE PROVIDED WITH SPECIFICATION GRADE HP RATED, UL LISTED, SIDE AND BACK-WIRED, FLUSH TUMBLER SWITCHES RATED 20- AMP, 120-VOLTS, UNLESS OTHERWISE NOTED.
3. STANDARD WALL RECEPTACLES SHALL BE SPECIFICATION GRADE, RATED 20-AMP, 120-VOLT, 3-WIRE, GROUNDING TYPE, BACK AND SIDE-WIRED, NEMA 5-20R, COLOR AND FINISH AS SPECIFIED BY ARCHITECT.
4. PROVIDE A DEVICE PLATE FOR EACH OUTLET INSTALLED.
- O. PANELBOARDS
1. RE-USE EXISTING PANELBOARDS AND PROVIDE UPDATED TYPED PANEL LABEL CARDS FOR ALL EXISTING PANELS.
- P. MOTOR AND HVAC WIRING AND CONNECTIONS:
1. PROVIDE ALL NECESSARY CONDUIT, BOXES, SUPPORTS, AND WIRING FOR THESE ITEMS.
2. REFER TO THE MECHANICAL DRAWINGS FOR THE EXTENT AND SCOPE OF THIS WORK.
3. PROVIDE NEC DISCONNECT SWITCH FOR EACH MOTOR OR HVAC UNIT AS REQUIRED BY THE NATIONAL ELECTRICAL CODE.
4. INSTALL ALL CONDUCTORS AND PROTECTIVE DEVICES IN STRICT CONFORMANCE WITH APPLICABLE CODES, REGARDLESS OF ANY PLAN DISCREPANCIES AND/OR MECHANICAL EQUIPMENT SIZE VARIATIONS.
- Q. GROUNDING
1. GROUNDING SYSTEM SHALL COMPLY WITH APPLICABLE STATE AND LOCAL CODES AND ORDINANCES, WITH THE REQUIREMENTS OF OTHER AUTHORITIES HAVING JURISDICTION WITH THE NEC, AND APPLICABLE NFPA STANDARDS.
2. PROVIDE SEPARATE GROUND WIRE FOR ALL CIRCUITS.
- R. LIGHTING
1. CONTRACTOR SHALL FURNISH AND INSTALL ALL LIGHTING FIXTURES AS SPECIFIED AND WHERE SHOWN.
2. CONTRACTOR SHALL PROVIDE TEMPORARY LIGHTING AND POWER AS REQUIRED.
- S. CUTTING AND PATCHING
1. CONTRACTOR SHALL DO ALL NECESSARY CUTTING AND DRILLING OF WALLS, FLOORS, CEILINGS, ETC. FOR THE INSTALLATION OF WORK; ALL EXPOSED BUILDING SURFACES DAMAGED BY INSTALLATION OF ELECTRICAL WORK SHALL BE PATCHED AND FINISHED IN THE SAME MATERIALS AND MANNER AS ADJACENT AREAS.
- T. GUARANTEE
1. THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR AFTER THE DATE OF FINAL ACCEPTANCE.

ELECTRICAL LEGEND

	POLE MOUNTED OUTDOOR AREA LIGHT FIXTURE (SINGLE OR MULTIPLE HEADS PER POLE)
	WALL JUNCTION BOX
	ELECTRICAL PANELBOARD
	DISCONNECT SWITCH

GENERAL POWER NOTES:

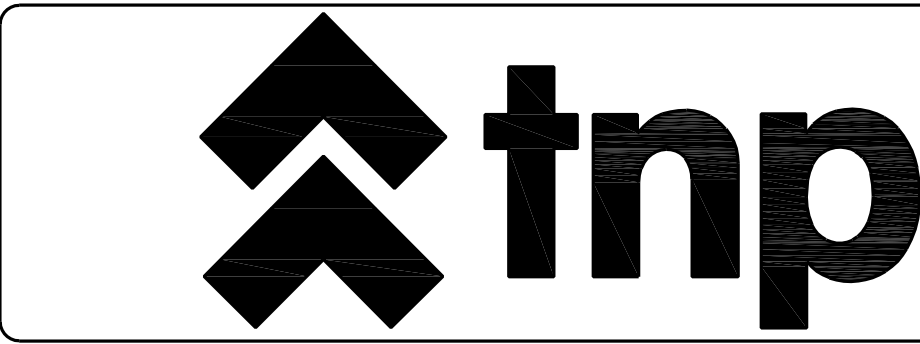
1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS AND REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
2. ALL WORK SHALL COMPLY WITH THE BUILDING OWNER'S CONSTRUCTION GUIDELINES.
3. ALL CIRCUITS SHOWN SHALL BE 120V, 20A CIRCUITS UNLESS NOTED OTHERWISE.
4. ALL CONDUCTORS SHALL BE #12 AWG UNLESS NOTED OTHERWISE.
5. ALL 120V RUNS LONGER THAN 60' SHALL BE #10 AWG UNLESS NOTED OTHERWISE ON THE PLANS.
6. ALL CONDUCTORS SHALL BE COPPER (#10 AND SMALLER SHALL BE SOLID).
7. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT CONDUCTOR SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE.
8. PANELBOARD DIRECTORIES SHALL BE COMPLETELY FILLED OUT TO ACCURATELY IDENTIFY EACH CIRCUIT (EXISTING AND NEW CIRCUITS) IN ALL PANELS WITHIN SCOPE OF WORK. DIRECTORIES SHALL BE TYPEWRITTEN.
9. ELECTRIC CONNECTIONS TO PANELBOARDS AND BUS DUCTS SHALL BE MADE ONLY WHEN PANELBOARD OR BUS DUCT HAS BEEN DE-ENERGIZED.



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APRIL 2022



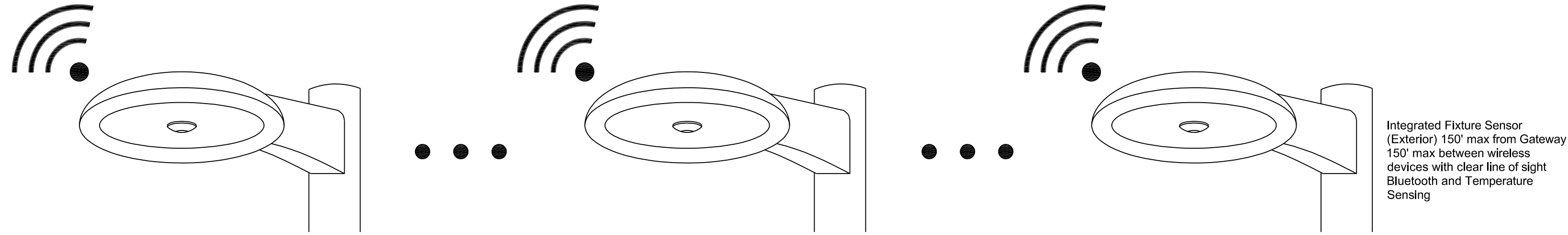
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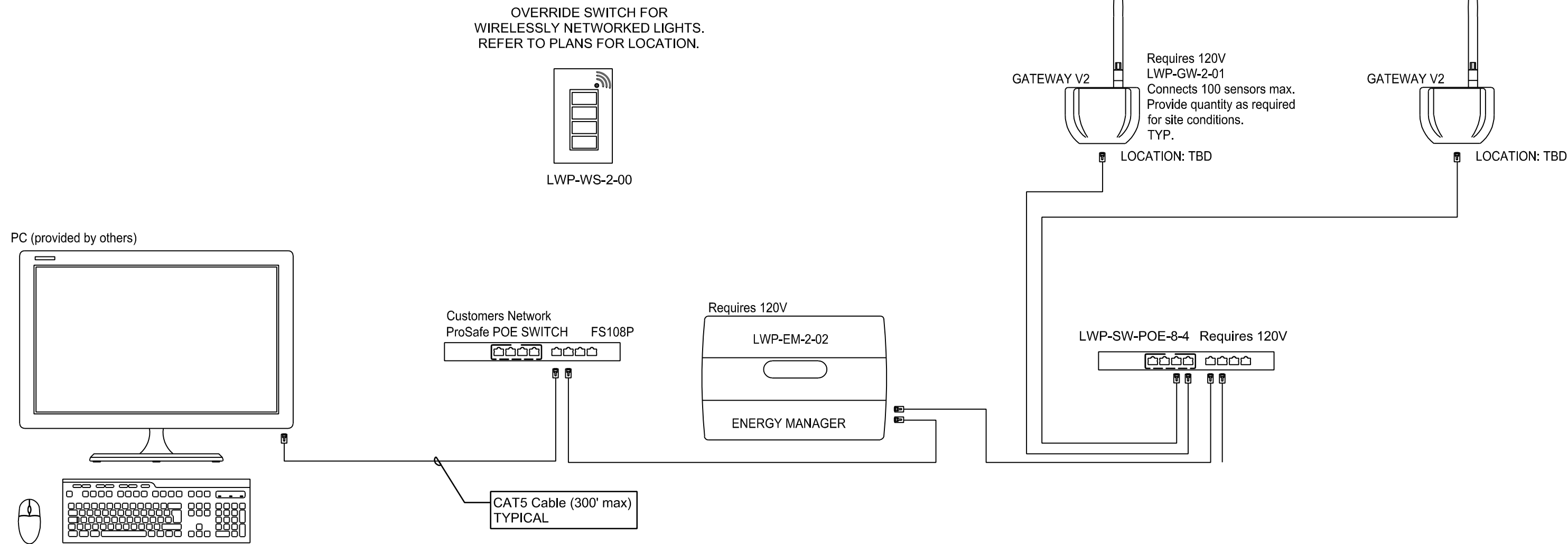
City of Midlothian, Texas
Parking Lot to Serve
Randall Hill Support Center
SPECIFICATIONS, LEGEND, & NOTES

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**LIGHTING ZONES:**  
NEED TO BE DEFINED.



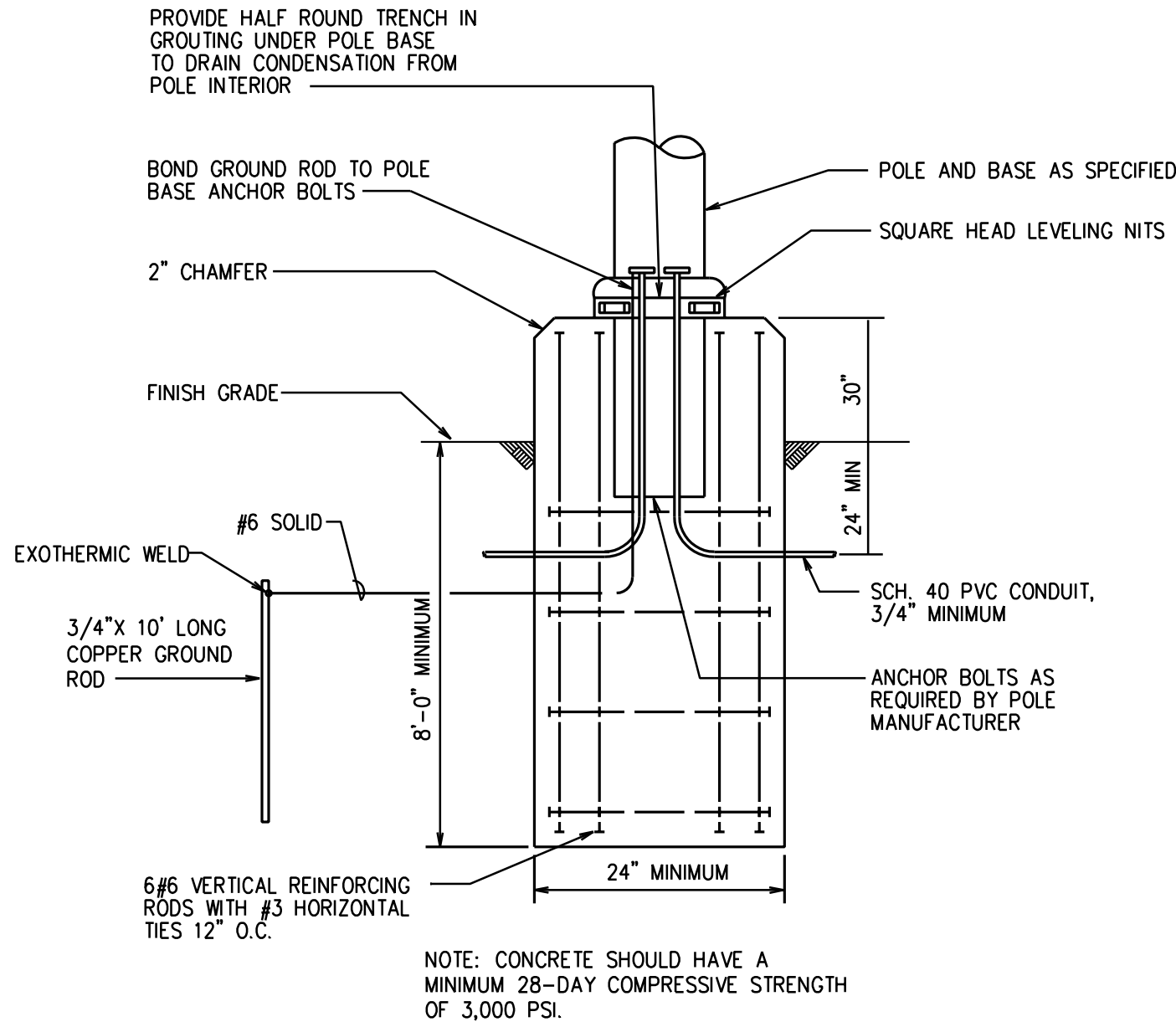
**01 WIRELESS CONTROL RISER DIAGRAM - SITE LIGHTING**  
NOT TO SCALE

LIGHT FIXTURE SCHEDULE						
TYPE	DESCRIPTION	VOLTAGE	WATTAGE	LAMPS	MODEL	
S1	NEW LED AREA SITE LIGHTING FIXTURE, DIE-CAST ALUMINUM HOUSING, POLYESTER FINISH, DIMMING DRIVER, TYPE 2 DISTRIBUTION, 20' POLE. WIRELESS SENSOR, 20' SQUARE STEEL POLE	120	93	LED	MC GRAW-EDISON	LIGHT FIXTURE: GLEON-SA3A-740-U-T2-X-LWR-LN-ZWSWPD5 ; POLE- SSS-5-M-20-S-X-N-1
S2	NEW LED AREA SITE LIGHTING FIXTURE, DIE-CAST ALUMINUM HOUSING, POLYESTER FINISH, DIMMING DRIVER, TYPE 4 FORWARD THROW DISTRIBUTION, 20' POLE. WIRELESS SENSOR, 20' SQUARE STEEL POLE	120	93	LED	MC GRAW-EDISON	LIGHT FIXTURE: GLEON-SA3A-740-U-T4FT-X-LWR-LN-ZWSWPD5 ; POLE- SSS-5-M-20-S-X-N-1
NOTES: 1. POLES AND FIXTURES TO BE BRONZE COLOR UNLESS NOTED OTHERWISE. VERIFY IN SUBMITTAL. 2. PROVIDE ALL MOUNTING HARDWARE FOR FIXTURE TO POLE. 3. PROVIDE NEW ANCHOR BOLTS FOR POLES PER MANUFACTURERS RECOMMENDATIONS.						

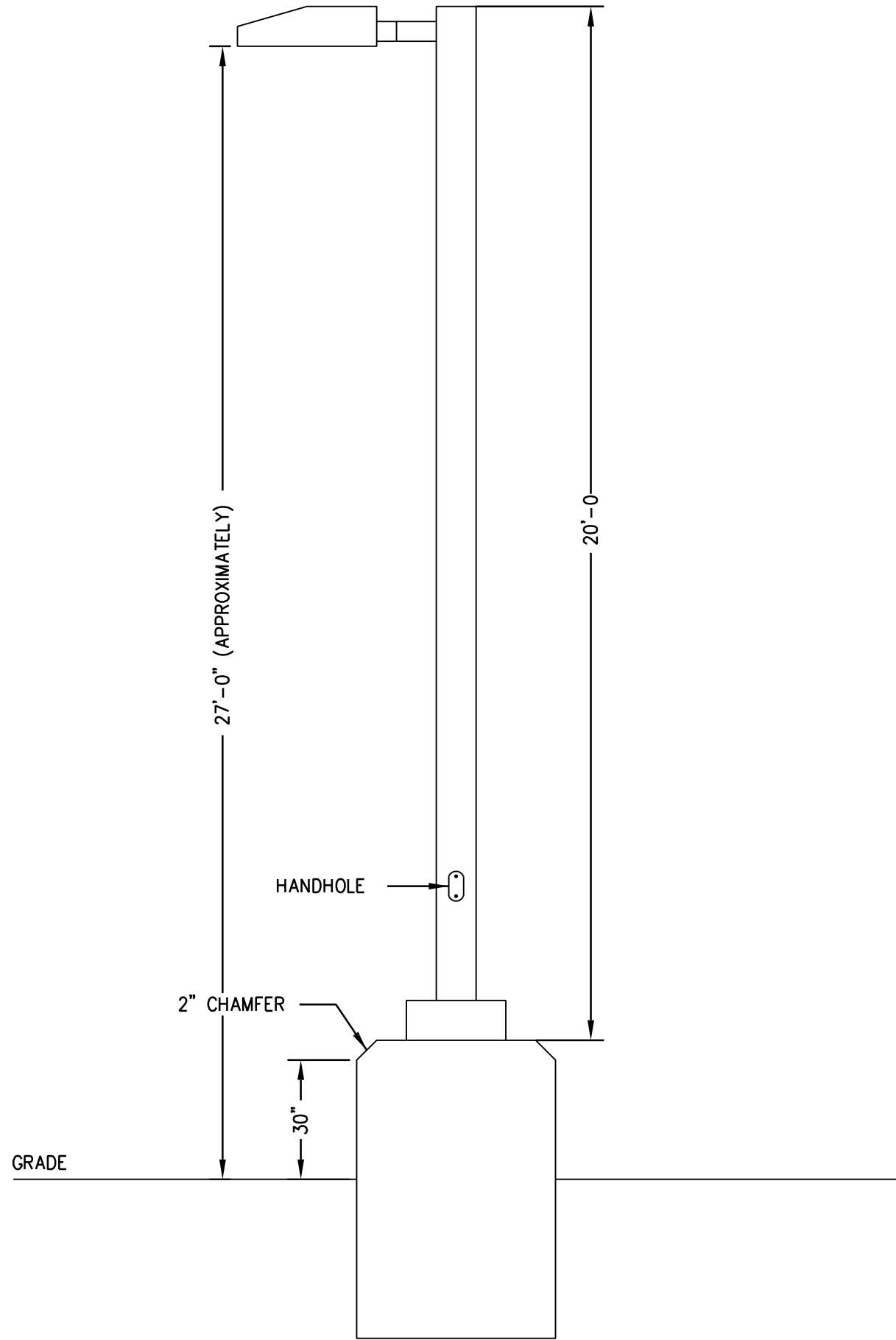
**LIGHTING CONTROLS NARRATIVE**

**PARKING LOT LIGHTING**  
PARKING LOT LIGHT FIXTURES WILL BE CONTROLLED BY A WIRELESS NETWORK LIGHTING CONTROL SYSTEM. PARKING LOT LIGHT FIXTURES WILL BE TURNED 'ON ' WITH A CENTRAL PHOTOCELL, AND THE LIGHTING LEVEL WILL BE AUTOMATICALLY REDUCED AT MIDNIGHT BY 30%, UNTIL 6 AM, AT WHICH TIME THE LIGHTING MAY BE SCHEDULED TO TURN 'ON '. THE LIGHTING WILL REMAIN ON UNTIL TURNED 'OFF ' AT DUSK BY PHOTOCELL.  
  
THERE IS MANUAL OVERRIDE SWITCH LOCATED IN EXISTING BUILDING FOR DISTRICT STAFF USE ONLY.

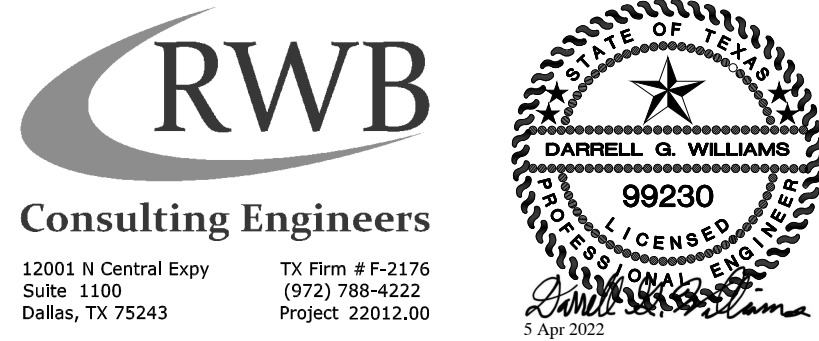
- GENERAL NOTES:**
- CONTROLS CONTRACTOR TO COORDINATE SETUP OF SCHEDULE WITH OWNER.
  - CONTRACTOR SHALL PROVIDE FACTORY AUTHORIZED FIELD STARTUP, PROGRAMMING AND TRAINING, AND INCLUDE AT LEAST ONE SERVICE CALL, FOR AFTERCARE.
  - INCLUDE 2 HOURS OF OWNERS TRAINING.
  - COORDINATE OBTAINING REQUIRED NETWORK DROP WITH OWNER AND THEIR TECHNOLOGY DEPARTMENT.
  - FIELD VERIFY LOCATION OF CONTROLS COMPONENTS ON EACH SITE PRIOR TO INSTALLATION.



**02 POLE BASE DETAIL**  
NOT TO SCALE



**03 TYPICAL POLE LIGHT**  
NOT TO SCALE




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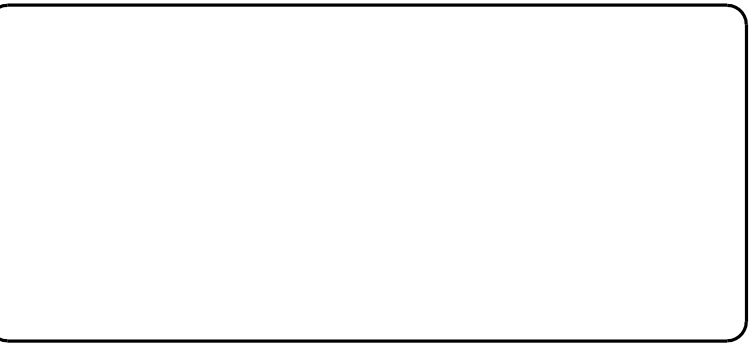


**MIDLOTHIAN ISD**  
INSPIRING EXCELLENCE

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APRIL 2022



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City of Midlothian, Texas

Parking Lot to Serve

**Randall Hill Support Center**

**DETAILS & SCHEDULE**

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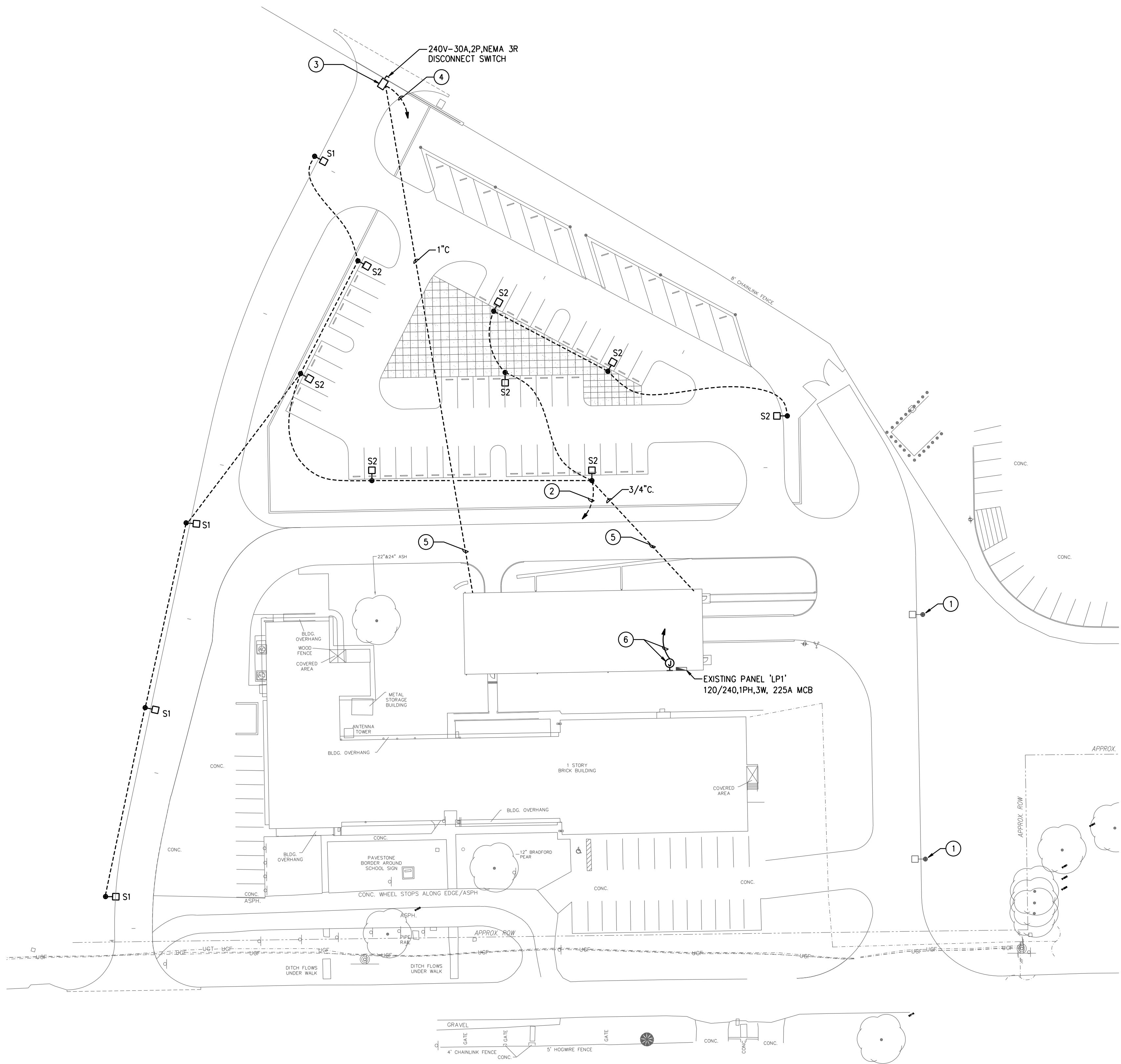


GENERAL LIGHTING NOTES:

1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE AND LOCAL CODES, RULES, REGULATIONS.
2. ALL WORK SHALL COMPLY WITH THE BUILDING OWNER'S CONSTRUCTION GUIDELINES.
3. ALL POLE BASES TO BE STAKED WITH OWNER FOR FINAL LOCATION.
4. PROVIDE NEW SOD TO MATCH EXISTING SOD AT ALL LOCATIONS WHERE CONDUIT IS TRENCHED. COMPACT EXCAVATED AREAS AFTER SOIL REPLACEMENT. THE CONTRACTOR SHALL WALK THE SITE AND MATCH EXISTING CONDITIONS INCLUDING SOD TYPE FOR ALL LANDSCAPE REPLACEMENT.
5. PATCH, REPAIR AND RETURN TO FUNCTIONAL STATUS ALL IRRIGATION PIPING AND CONTROL WIRING AFFECTED BY THIS PROJECT.
6. A NEW SITE LIGHTING CONTROL SYSTEM, TYPE EATON WAVELINX WIRELESS CONTROLS, SHALL BE PROVIDED FOR ALL NEW POLE MOUNTED LIGHTING FIXTURES AS PART OF THIS PROJECT. ALL LIGHTING CONTROLS WORK NECESSARY TO PROVIDE A FULLY FUNCTIONAL LIGHTING AND LIGHTING CONTROL SYSTEM INCLUDING BUT NOT LIMITED TO LIGHTING FIXTURES, LIGHT POLE BASES, NETWORK CONNECTIONS, WIRELESS WATERWAYS, WIRELESS ANTENNAS, WIRELESS NODES, WIRING AND PROGRAMMING SHALL BE PROVIDED UNDER THIS CONTRACT.
7. CONTRACTOR INCLUDE ALL COST FOR THE LOCATING, AND TRACING OF ALL EXISTING SITE LIGHTING CIRCUITS, INCLUDING IDENTIFICATION AND LABELING OF THE EXISTING CIRCUIT BREAKERS SERVING THESE FIXTURE, AND UPDATING PANEL SCHEDULES.
8. CONTRACTOR TO DISCONNECT THE EXISTING SITE LIGHTING CONTROLS, AND PREPARE FOR NEW WIRELESS LIGHTING CONTROLS. COORDINATE THE EXACT LOCATION OF THE NEW WIRELESS CONTROLS GATEWAY WITH OWNER, AND PROVIDE REQUIRED POWER FOR GATEWAY. COORDINATE CONNECTION OF GATEWAY TO THEIR NETWORK WITH MIDLOTHIAN ISD TECHNOLOGY.
9. ALL EXISTING UTILITIES TO BE FLAGGED AND MARKED PRIOR TO CONSTRUCTION. THESE FLAGS ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION. ALL UTILITIES ARE TO REMAIN ACTIVE UNLESS NOTED OTHERWISE IN THESE CONSTRUCTION DOCUMENTS.
10. GENERAL CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF CONFLICTS OCCUR BETWEEN LIGHTING AND ANY OTHER TRADE. DO NOT PROCEED WITH INSTALLATION IN THAT AREA UNTIL CONFLICT HAS BEEN RESOLVED TO THE SATISFACTION OF THE ENGINEER.
11. WHEN SPECIFIC LIGHT FIXTURE TYPE HAS BEEN SPECIFIED IN THE FIXTURE INFORMATION, ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE OF ALL PARTS AND HARDWARE.
12. ALL CIRCUITS SHOWN SHALL BE 120V, 20A CIRCUITS UNLESS NOTED OTHERWISE.
13. ALL CONDUCTORS SHALL BE #12 AWG UNLESS NOTED OTHERWISE.
14. ALL 120V RUNS LONGER THAN 60' SHALL BE #10 AWG UNLESS NOTED OTHERWISE ON PLANS.
15. ALL CONDUCTORS SHALL BE COPPER (#10 AND SMALLER SHALL BE SOLID).
16. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS NOTED OTHERWISE.

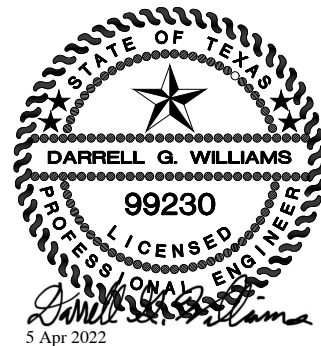
NOTES BY SYMBOL 'O':

- 1 EXISTING SITE LIGHTING FIXTURE TO REMAIN.
- 2 CONNECT TO EXISTING PANEL 'LP1'. USE AVAILABLE SPARE 120V, 20A/1P CIRCUIT BREAKER WITH 2#10,1#10G-3/4"C.
- 3 DISCONNECT SWITCH MOUNTED ON STAINLESS STEEL UNISTRUT FOR MOTORIZED GATE. COORDINATE EXACT OF MOTORIZED GATE WITH CIVIL ENGINEER.
- 4 CONNECT TO EXISTING PANEL 'LP1'. PROVIDE 20A/2P BREAKER IN AVAILABLE SPACE WITH 2#10,1#10G-1"C.
- 5 CONTRACTOR SHALL BORE CONDUIT UNDER EXISTING CONCRETE DRIVE.
- 6 WALL MOUNTED JUNCTION BOX FOR POWER TO WIRELESS SITE LIGHTING SYSTEM. CONNECT TO EXISTING PANEL 'LP1'. USE AVAILABLE SPARE 120V, 20A/1P CIRCUIT BREAKER WITH 2#10,1#10G-3/4"C.



01 SITE PLAN - ELECTRICAL  
SCALE: 1" = 40'-0"

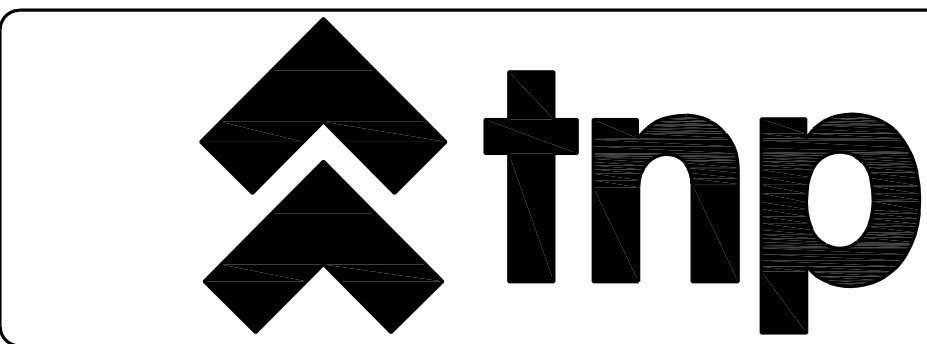
**RWB**  
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Project 22012.00



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<b>Randall Hill Support Center</b>
<b>SITE PLAN</b>

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