

Stephenville ISD

Stephenville ISD Stadium

Development Plan

N West Frey & N Wolfe Nursery Rd.

Stephenville, TX 76401

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Stephenville ISD Stadium
Honeybees & Yellowjackets



CROSSLAND · Parkhill

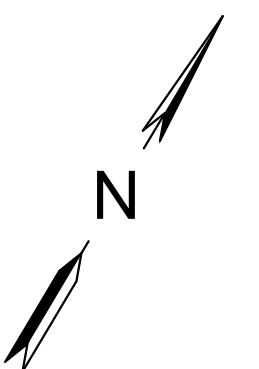
CLIENT

Stephenville ISD
N Frey & N Wolfe Nursery Rd.
Stephenville, TX 76401

PROJECT NO.

40108.22

KEY PLAN



0 500' 1000'

Parkhill

3000 Internet Blvd.
Suite 550
Frisco, TX 75034
972.987.1670

#	DATE	DESCRIPTION
3	09/15/2023	Development Plan Re-Submittal
2	09/08/2023	Development Plan Re-Submittal
1	08/25/2023	Development Plan Submittal

Cover Sheet
G001

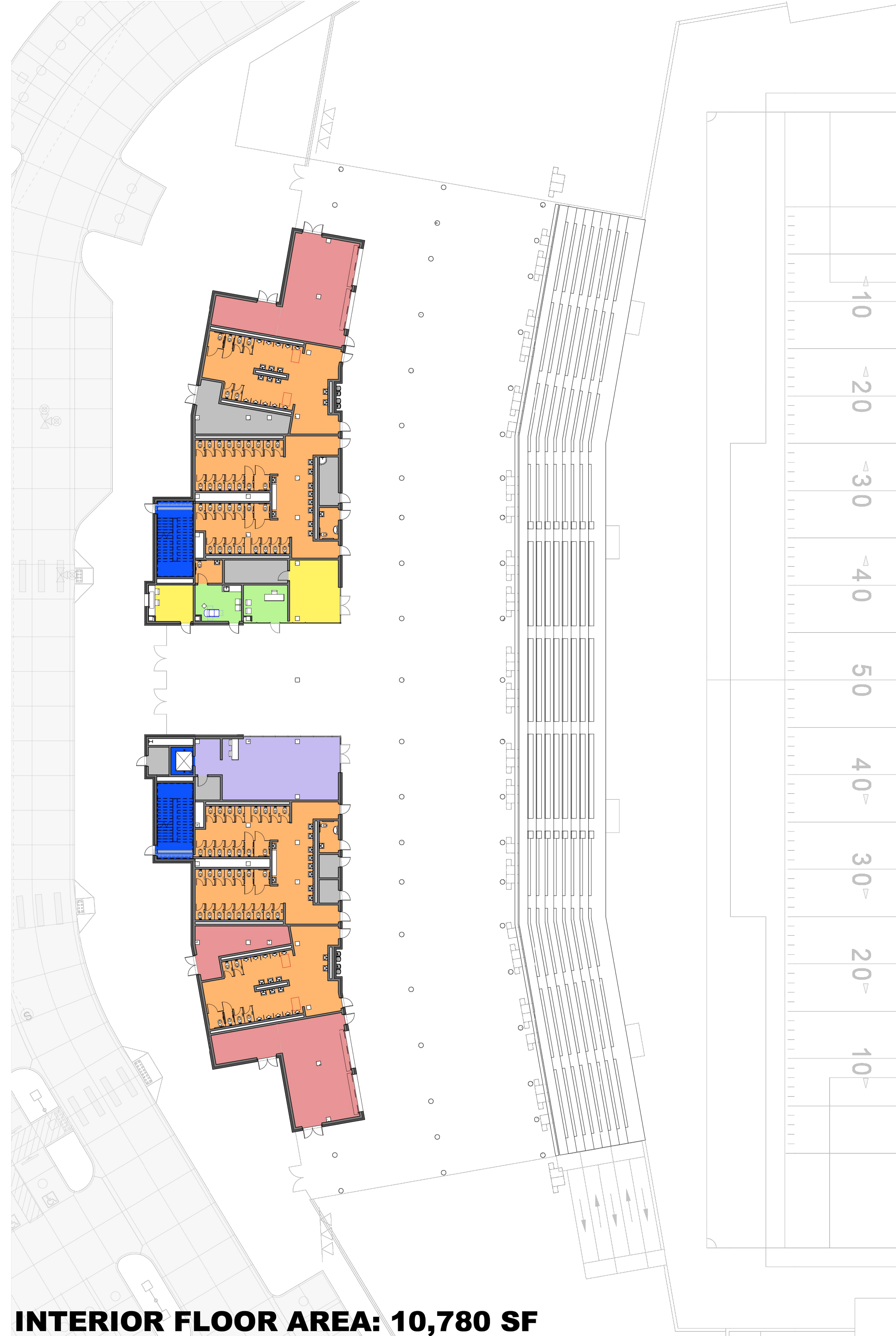
STEPHENVILLE ISD STADIUM

GROSS PROJECT SQUARE FOOTAGE
31,432 SF

HOME SIDE BUILDING DESIGN
GROSS SQUARE FEET: 21,081 SF

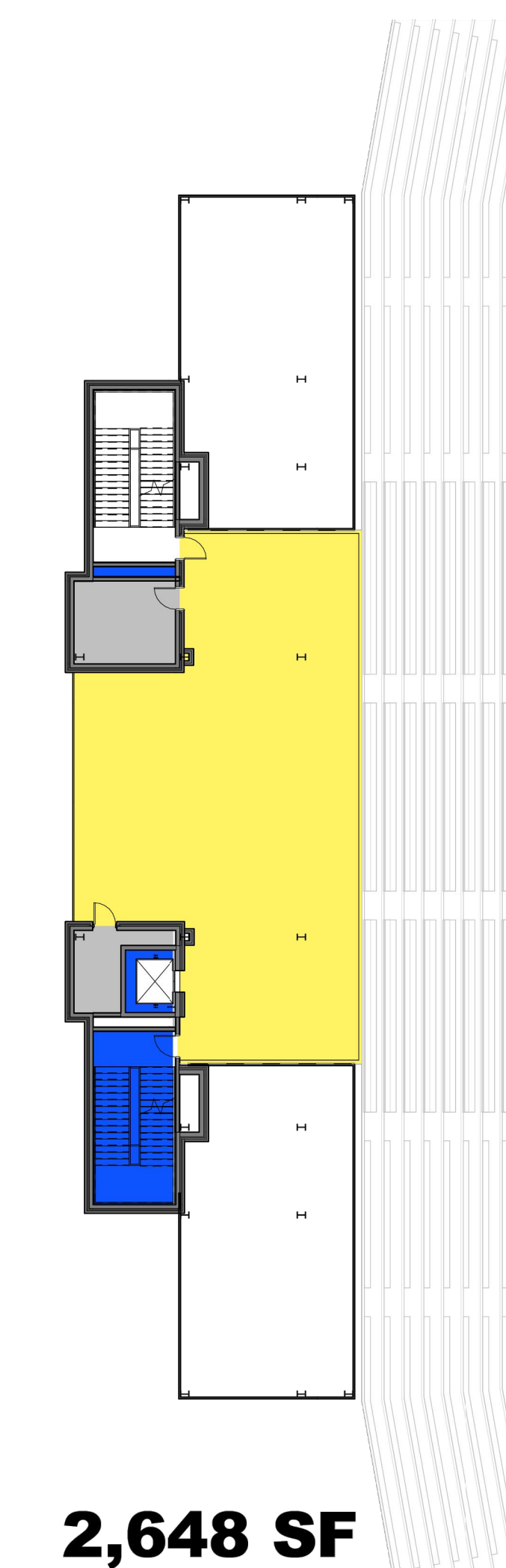
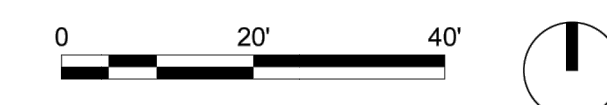
BUILDING HEIGHTS
HIGHEST OCCUPIABLE FLOOR: 74'-9"
STAIR TOWER PARAPET: 92'-1"

- GENERAL NOTES:**
1. Provided Renderings & Plans are for illustration purposes only as the design process is ongoing
 2. Final material selections to be defined with client & to meet Local & National standards
 3. Estimated preliminary percentages:
 - A. Split Face CMU = 32%
 - B. Metal Panel = 20%
 - C. Rainscreen Concrete Panel = 32%
 - D. Corrugated Perforated Metal = 15%
 - E. Vinyl Coated Poly Screening Mesh = Mounted over portions of exposed steel structure at pressbox & bleachers / grandstands



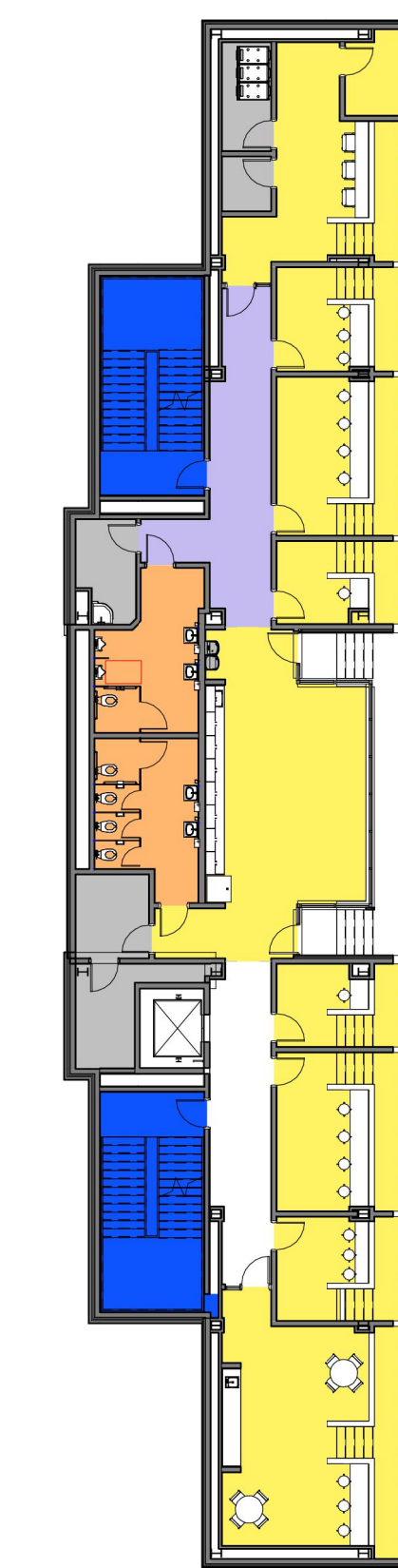
INTERIOR FLOOR AREA: 10,780 SF

1ST FLR - HOME CONCOURSE LEVEL



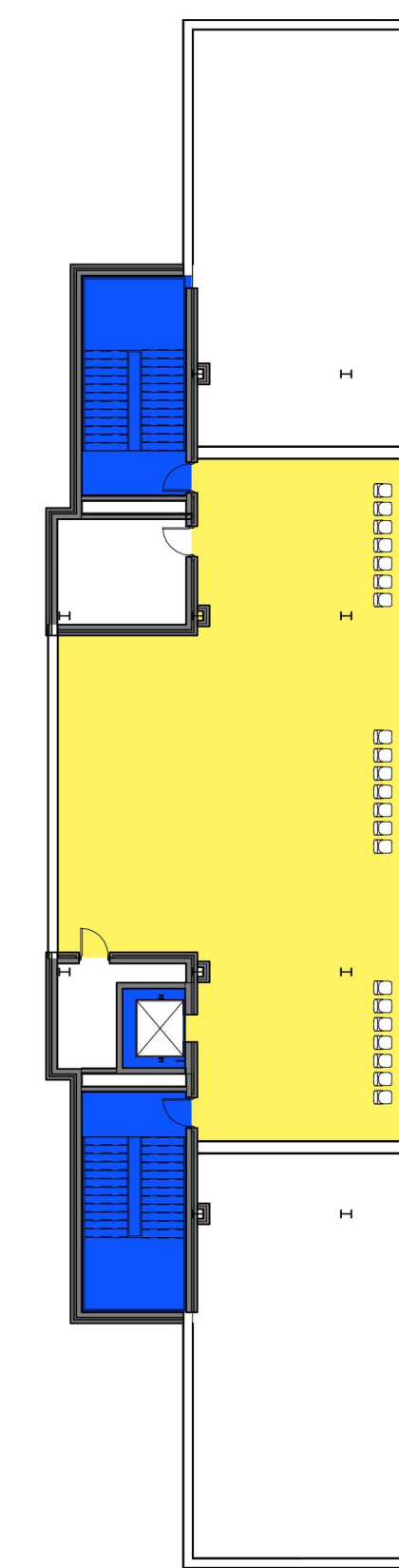
2,648 SF

2ND FLR - COMMUNITY TERRACE



5,005 SF

3RD FLR - PRESSBOX OPERATIONS



2,648 SF

4TH FLR - ROOF TERRACE

Stephenville ISD Stadium
Honeybees & Yellow Jackets



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Stephenville ISD
W Frey & N Wolfe Nursery Rd.
Stephenville, TX

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STEPHENVILLE ISD STADIUM

GROSS PROJECT SQUARE FOOTAGE
31,432 SF

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PARKHILL, SMITH & COOPER, INC.
ARCHITECTURAL

Stephenville ISD Stadium
Honeybees & Yellow Jackets

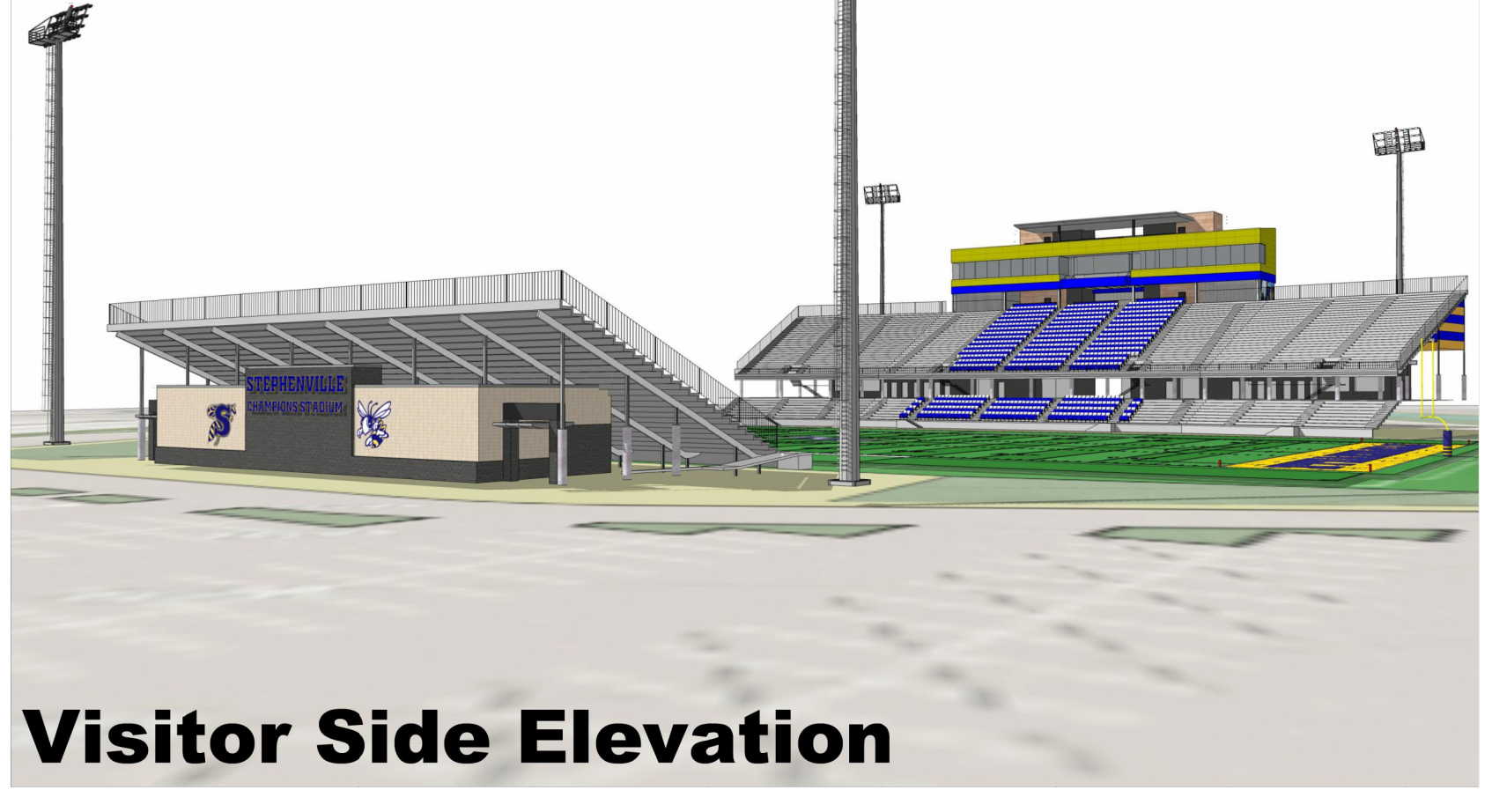
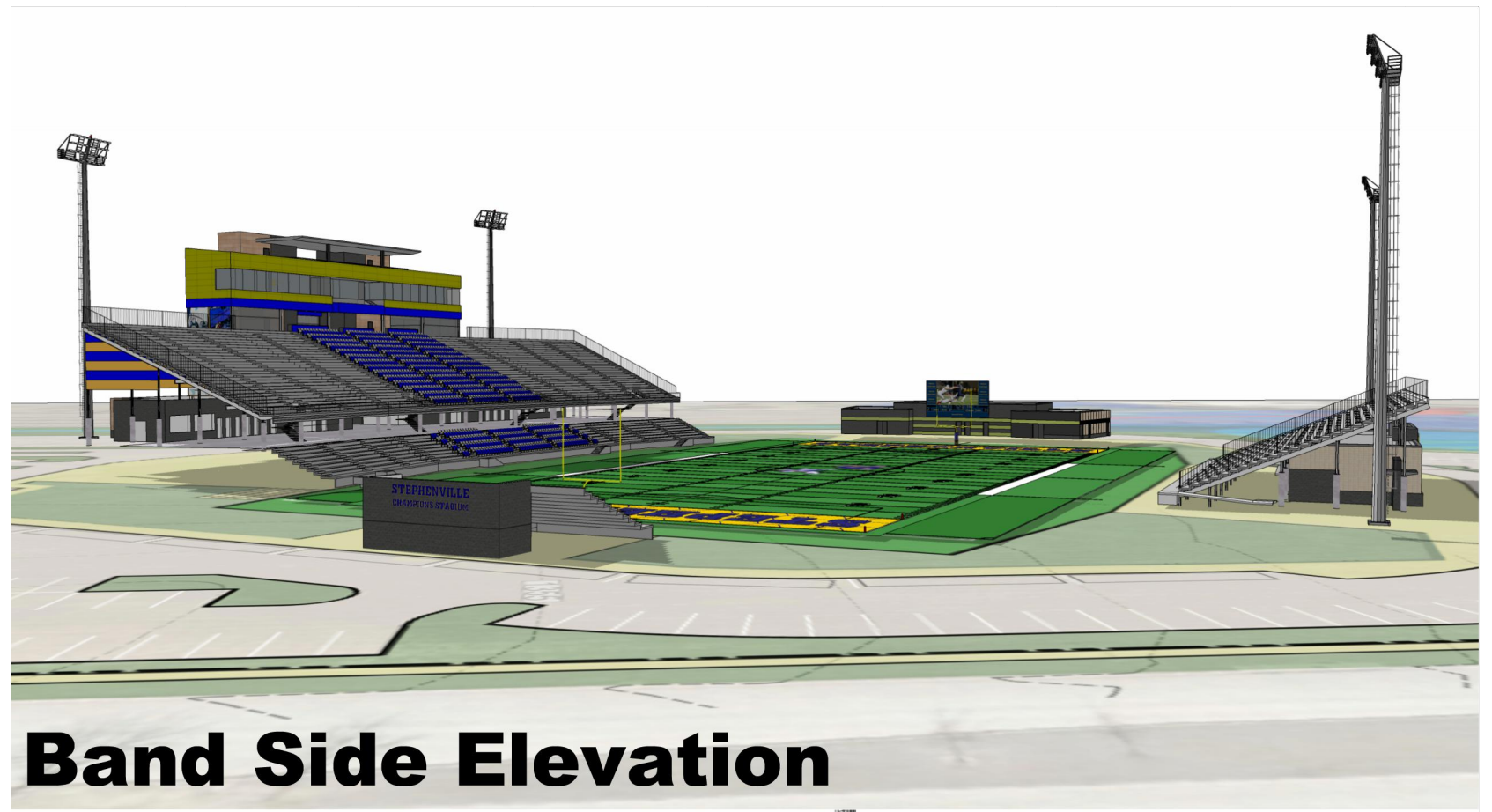
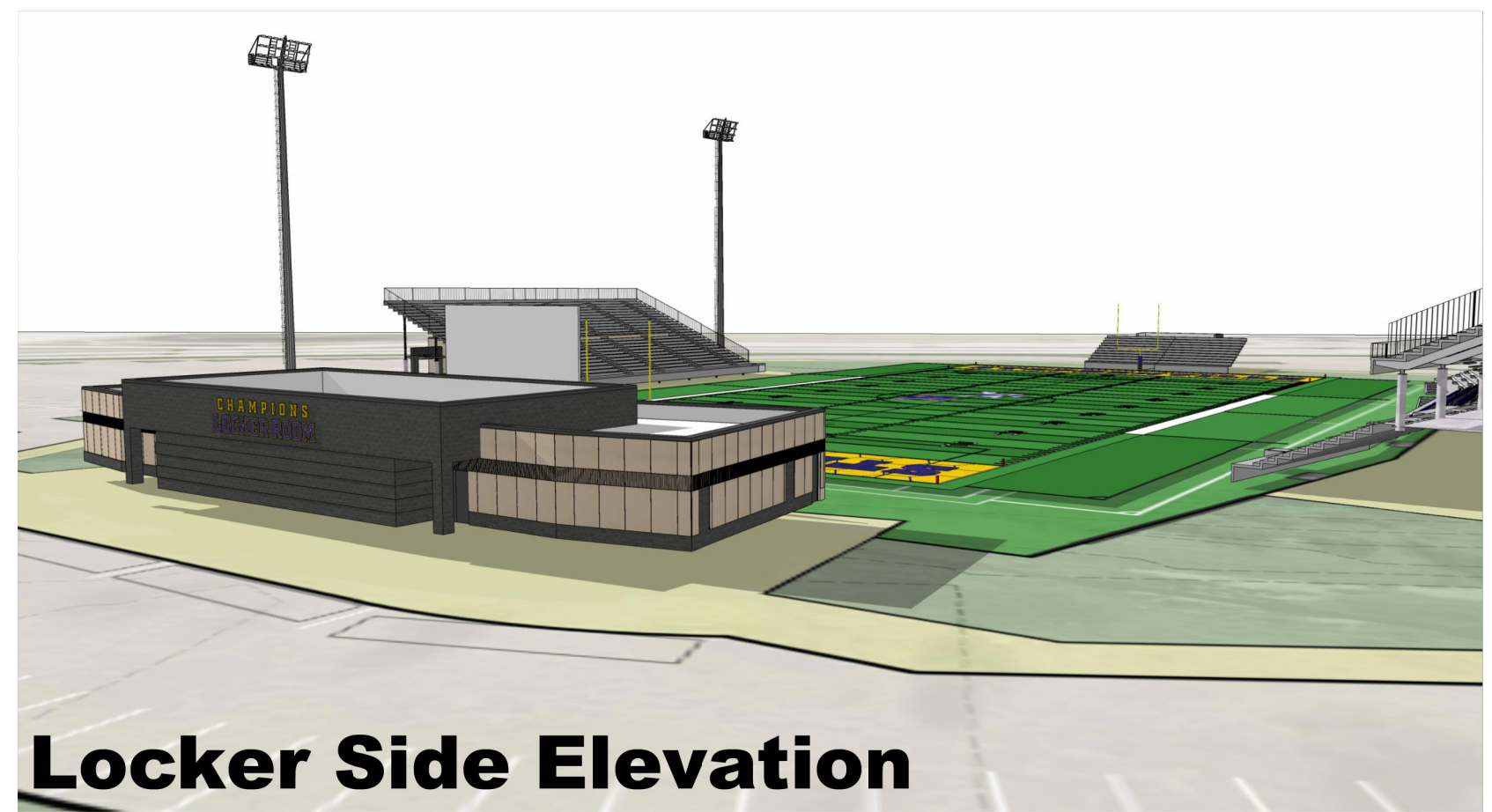
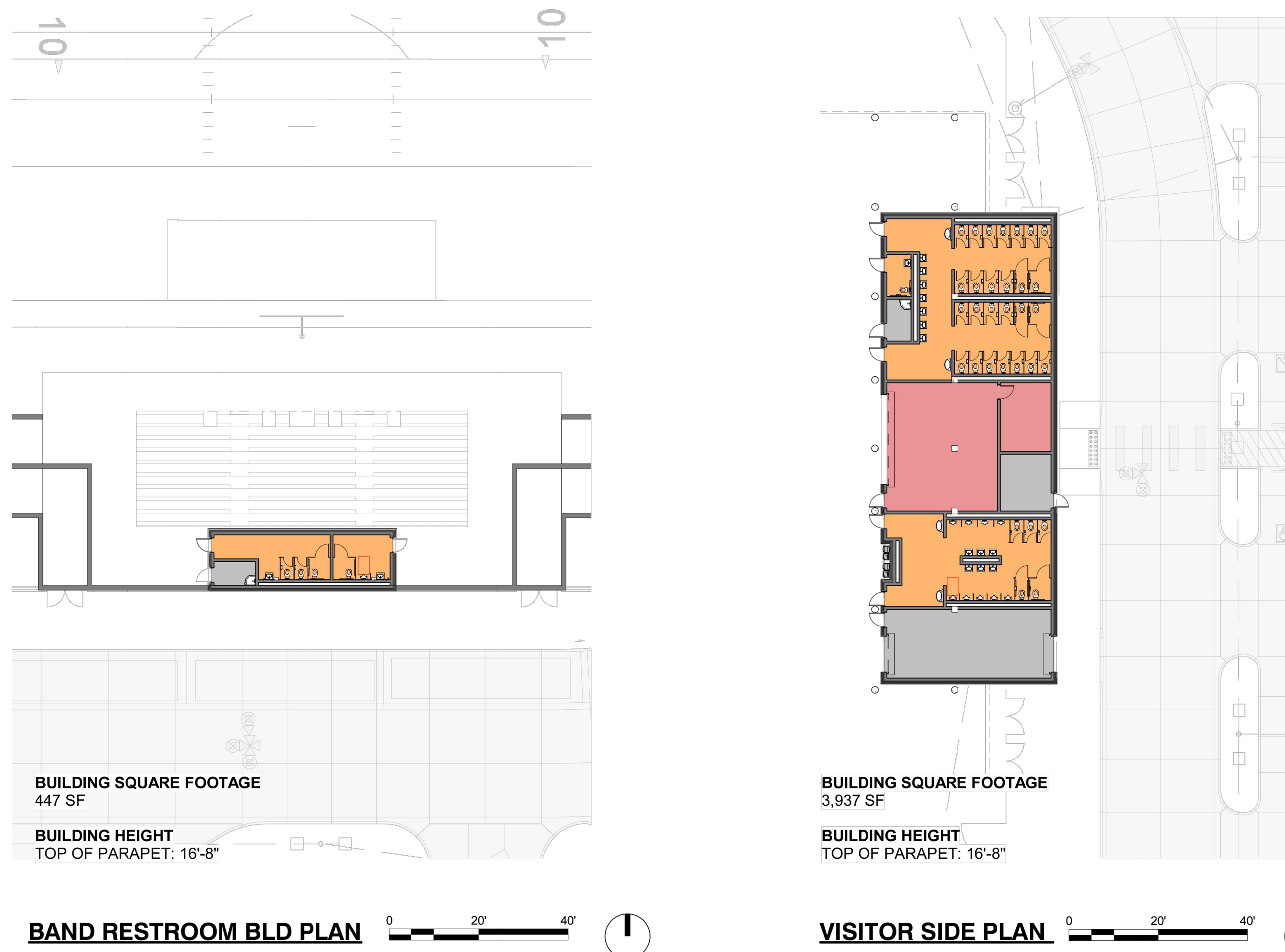
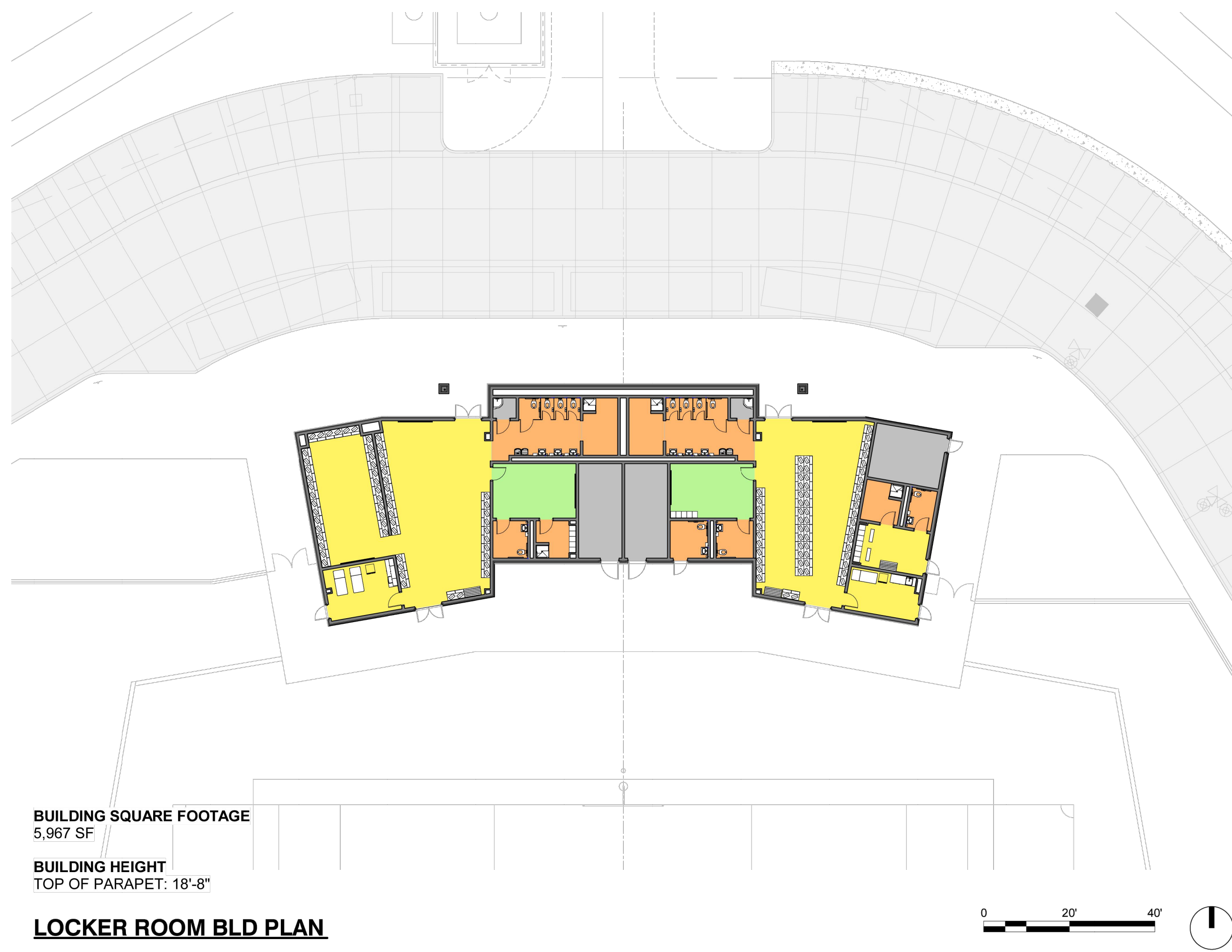


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PARKING COUNTS

HOME SIDE SEATS:	5,500
VISITOR SIDE SEATS:	2,000
BAND SEATS:	200
TOTAL SEATS:	7,700
PARKING:	
REQUIRED: 7,700 / 4 = 1925	4:1
PHASE 1:	
ONSITE PAVED:	1,218
JUNIOR HIGH OFFSITE:	468
PHASE 1 TOTAL:	1,686 (4.56:1)
PHASE 2:	
ONSITE PAVED	239
NORTH OF DRAINAGE CHANNEL:	239
PHASE 2 TOTAL:	239
TOTAL PARKING PROVIDED:	1,925 (4:1)

CODE DEVIATIONS

1. USE OF JUNIOR HIGH OFFSITE PARKING (468 SPACES), TWO SIGNALIZED PEDESTRIAN CROSSINGS WILL BE PROVIDED ACROSS WEST FREY STREET.
2. PHASE TWO PAVED PARKING LOT (239 SPACES) SHALL BE CONSTRUCTED AT FUTURE TIME WHEN STADIUM DEMAND REACHES FULL CAPACITY.
3. TREES TO BE PLACED OUTSIDE OF PARKING AREAS INSTEAD OF EVERY 12 PARKING SPACES PER LANDSCAPE ORDINANCE. REQUIRED SITE TREE COUNTS WILL BE PROVIDED OUTSIDE OF PARKING AREAS, PROPOSED TREE QUANTITY WILL BE CONTINGENT UPON THE QUANTITY OF EXISTING TREES KEPT (TREE CREDITS). TREE SURVEY WILL BE PROVIDED.
4. BUILDING HEIGHTS:
PRESS BOX: 74'-9"
HOME SIDE STAIR TOWERS: 82'-1"
STREET LIGHTING NOT PROVIDED DUE TO LIGHTING ALREADY EXISTING ALONG STREET.

KEY NOTES

- AS INDICATED BY: (C)
1. BUS PARKING
 2. DUAL USE BUS/AUTO PARKING
 3. PAVED PARKING LOT - 9.5' X 18' STANDARD PARKING STALL SIZE
 4. ADA PARKING STALLS
 5. NEW ENTRY/EXIT DRIVE
 6. SIGNALIZED PEDESTRIAN CROSSING
 7. DETENTION POND
 8. HOME DROP-OFF ZONE
 9. PUBLISHED FEMA FLOODWAY AND FLOODPLAIN
 10. MEDIAN IMPROVEMENTS
 11. POTENTIAL WATER OF THE UNITED STATES, NO LETTER OF DETERMINATION FROM USACE
 12. STADIUM LIGHTS

GENERAL NOTES

- A. UNLESS SPECIFIED OTHERWISE, ALL DEVELOPMENT TO BE DONE IN PHASE 1.
- B. ALL BUILDING HEIGHTS ARE GIVEN FROM CONCOURSE/FIELD LEVEL.
- C. ALL PARKING AREAS TO BE PAVED WITH CONCRETE.
- D. **PHASE TWO DEVELOPMENT WILL BEGIN WHEN THE AVERAGE TICKET SALES OF THE SEASON ARE GREATER THAN OR EQUAL TO 5,395, OR WHEN THE AVERAGE OF 3 CONSECUTIVE YEARS HIGHEST TICKET SALES EXCEEDS 6,407.**

LEGEND

- PROPERTY LINE
- 8" TALL ORNAMENTAL STEEL STADIUM FENCING - SEE LANDSCAPE PLANS
- XX --- EXISTING GUARD RAIL
- XXX --- PROPOSED RAILING - SEE LANDSCAPE PLANS
- SETBACK LINE
- FIRE LANE MARKING
- FUTURE PHASE 2 DEVELOPMENT
- PROPOSED 25' LIGHT POLE + 2.5' BASE
- STANDARD DUTY CONCRETE PAVEMENT - 6"
- HEAVY DUTY CONCRETE PAVEMENT - 8"
- SIDEWALK - 4"

CONTACTS & PROPERTY INFORMATION

OWNER:
STEPHENVILLE ISD
(254) 966-7990

ENGINEER:
PARKHILL
BEN SANCHEZ
(972) 987-1670
bsanchez@parkhill.com

SURVEYOR:
PRICE SURVEYING
MATTHEW PRICE
(254) 965-5489
matthew@pricesurveying.com

PROPERTY INFORMATION:
S32600 CITY ADDITION, BLOCK 156, LOT 7 (PT OF)
42.93 AC.
CITY OF STEPHENVILLE



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Honeybees & Yellowjackets

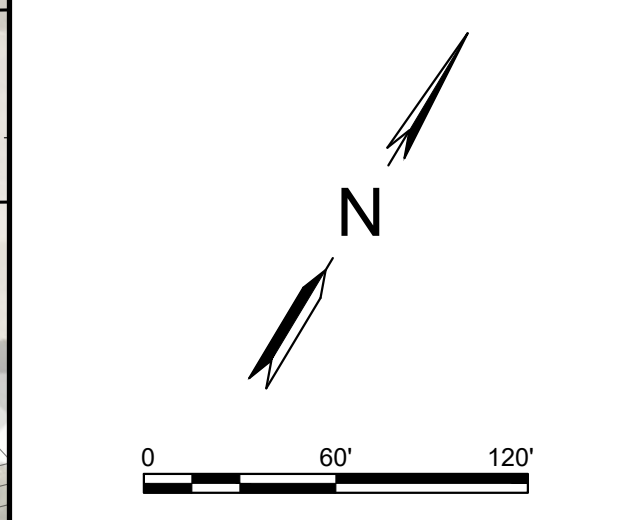


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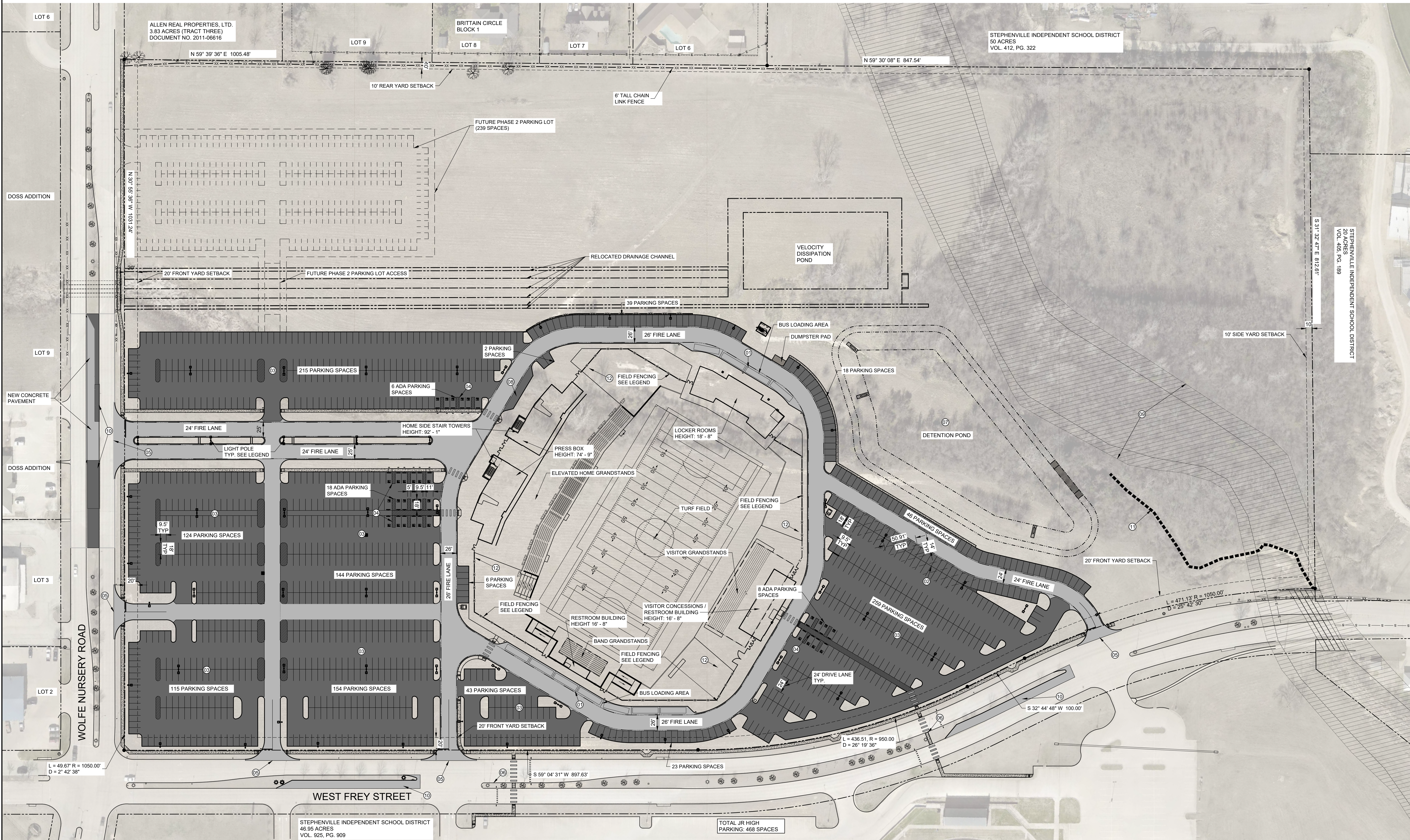
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Development Site Plan
CS101



A1 DEVELOPMENT PLAN
1" = 60'

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ELTEC Traffic Products and Warning Systems

PEDESTRIAN CROSSING SYSTEMS

ELTEC's Pedestrian Crossing System is designed to alert approaching motorists that a crosswalk is occupied.

ELTEC's Pedestrian Crossing System may be integrated for AC or solar power. All ELTEC solar powered systems never dim any signal during the day, maintaining the beacon's effectiveness and the warning system's integrity.

APPLICATIONS

- Jogging/Running Paths
- Hiking Trails
- Horse Trails
- Cyclist Crossings
- Golf Cart Crossings
- Middle-of-the-Block Crosswalks

ELTEC manufactures three mid-block pedestrian crossings:




- Standard: single or dual round amber signals per pole
- RRFB: Rectangular Rapid Flashing Beacon
- HAWK (hybrid): High Intensity Activated CrossWalk

Every ELTEC pedestrian crossing system is designed and manufactured to individual project specifications. Each solar powered system takes into consideration geographic location and system loads. On solar powered systems, ELTEC does not agree with the "one size fits all" philosophy.

Activation of the flashing signal(s) is initiated with a pedestrian push button, motion sensor, or camera. Our wireless radio communication eliminates the need to run conduit for hard-wiring. Once activated, the signals remain ON for an adjustable pre-set time period as determined by the signal technician.

ELTEC's wireless system can turn ON multiple signals from one activation point including medians or advance warnings. Each programmable transceiver is linked to one or more poles creating an isolated network with no 'cross talk'.

All ELTEC systems meet the Federal Highway Administration's MUTCD (Manual on Uniform Traffic Control Devices) and ITE (Institute of Transportation Engineers) standards.

www.ELTECCORP.com

A typical system includes two or more poles with mounted beacon(s), RRFB light bar, or the HAWK crossing hybrid beacon face. Each pole supports a small cabinet housing the electronics with pre-assembled wiring for easy installation. If the unit is solar powered, a charge controller and battery are included, and a solar panel with a rack is mounted on each pole.

STANDARD FEATURES



- AC or Solar Powered
- Activation Options: pedestrian push button, motion sensor, camera
- System Flexibility: tailored to meet project requirements
- Programmable Timed Crossing
- No Trenching or Boring Cable with Wireless System
- 8" or 12" Amber Signal Heads: 1 or 2 per pole
- RRFB Light Bar
- Hybrid Beacon with Mikros EIC DC Controller
- Optional Night Dimming
- AC: optional battery back-up
- Meets MUTCD and ITE Standards

When AC power is not available or practical, solar power is the solution. ELTEC's solar powered pedestrian crossings are sized for geographic location including average weather conditions, number of crossings (activation time), and electrical load for optimal effectiveness guaranteeing sufficient power for the flashing beacons throughout the year. As specified by the FHWA, "It is not acceptable to dim signal indications or flashing beacons during daytime conditions...."

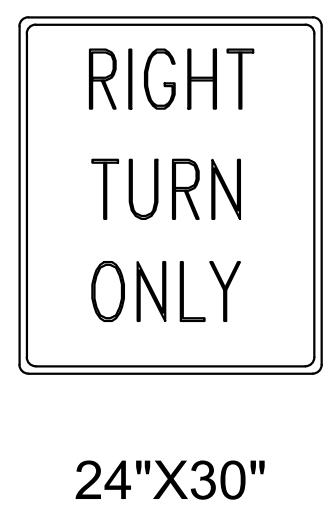
ADDITIONAL FEATURES for SOLAR POWERED SYSTEMS

- No Electrical Bills: self-contained
- No Power Interruption
- Electrical Contractors Not Required for Installation
- Solar Panel Mounting Rack Options: side or top-of-pole
- Self-Cleaning Solar Panels Warranted for 20 Years
- No Maintenance AGM Sealed Batteries
- Controller with Display Showing Battery Voltage, Solar Amps, and Load Amps
- Solid State Flasher (FS-2 or FS-2B) or Mikros EIC for Hybrid Flash Pattern
- Sized by Computer Program: ensures power generated exceeds load requirements
- 12 Month Solar Sizing Report Supplied (no charge) with Each Project
- Flash Rate is Constant at Selected Rate: does not vary as a function of battery voltage

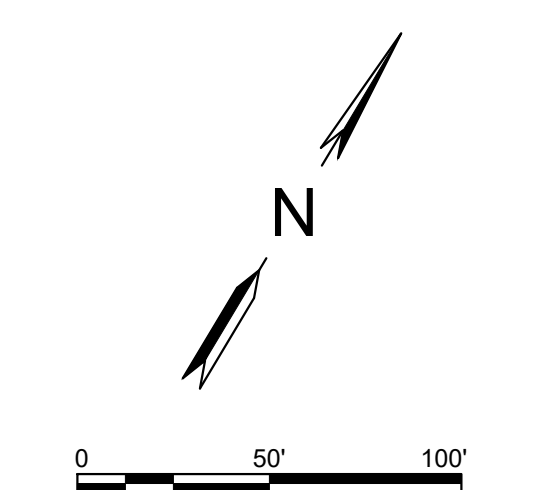
For more information or a quotation, contact ELTEC or your local ELTEC Dealer

ELECTROTECHNICS CORPORATION
1310 Commerce Street, Marshall, TX 75672 • 800-227-1734 903-938-1901 Fax 903-938-1977
sales@elteccorp.com



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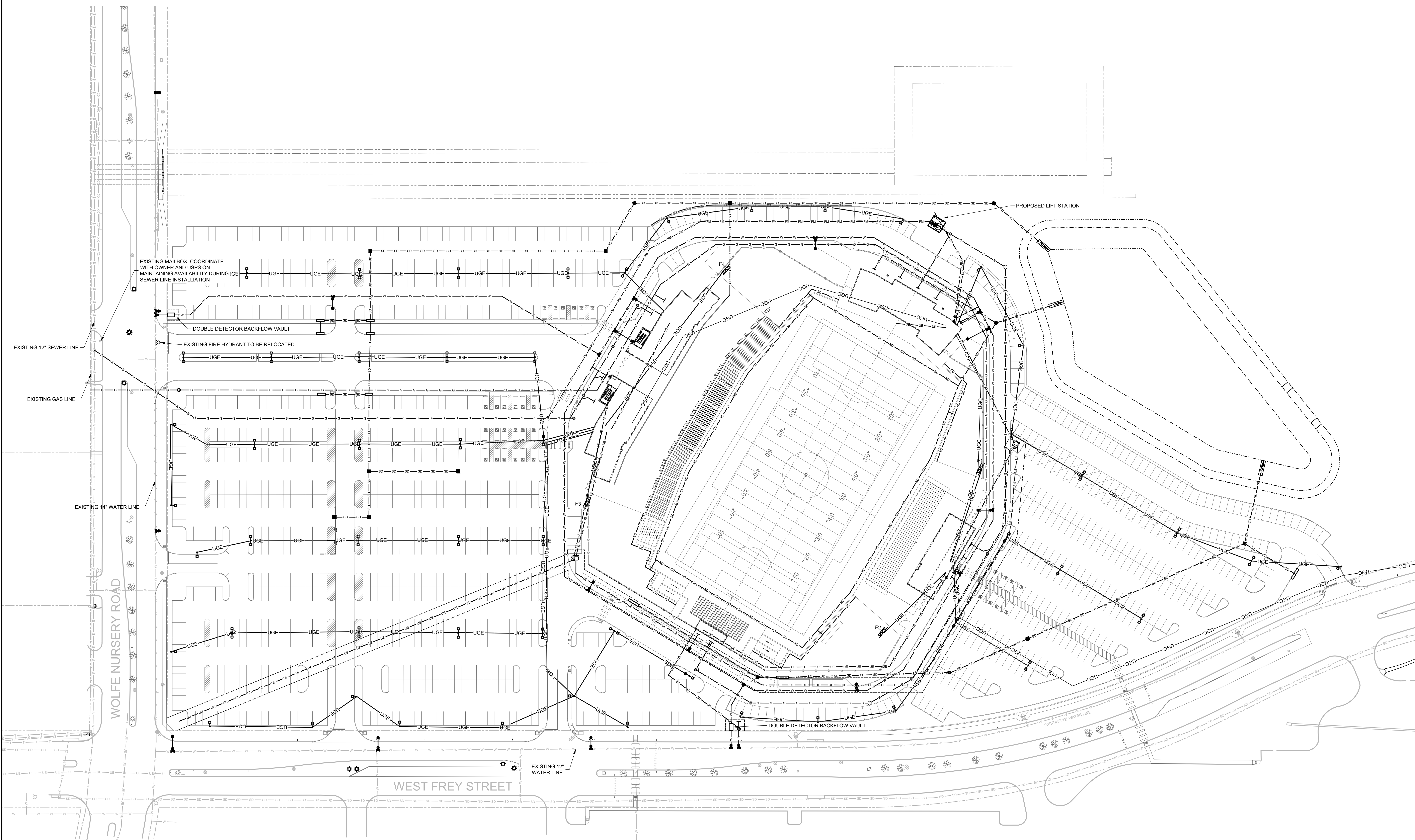
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UTILITY NOTES

- THE EXISTING UTILITIES, ABOVE GROUND AND UNDER GROUND, INDICATED ON THESE PLANS HAVE BEEN LOCATED FROM REFERENCE INFORMATION SUPPLIED BY OTHERS. VERIFY, BOTH HORIZONTALLY AND VERTICALLY, THE LOCATIONS OF ALL EXISTING UTILITIES, APPURTENANCES, OR OTHER FEATURES, PRIOR TO CONSTRUCTION. TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ALL EXISTING UTILITIES, APPURTENANCES, AND ANY OTHER FEATURES ENCOUNTERED, AND NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICTS WITH THE WORK.
- REPAIR DAMAGE TO UTILITIES CAUSED BY CONTRACTOR, AT CONTRACTOR'S EXPENSE.
- PRIVATE FIRE HYDRANTS MUST BE COATED RED BY THE MANUFACTURER. PRESSURE INDICATOR RINGS ARE TO BE INSTALLED. THE DEVELOPER OR CONTRACTOR IS REQUIRED TO PAY FOR THE FLOW TEST TO DETERMINE THE PRESSURE.
- WATER LINE IS TO BE PVC C-900 DR-14 AFTER THE GATE VALVE HEADING TO THE FIRE HYDRANT OR FDC.
- COORDINATE FIRE LINE INSPECTIONS WITH THE FIRE MARSHAL'S OFFICE.
- FIELD VERIFY ALL DIMENSIONS AND GRADES TO CONFIRM POSITIVE FLOW OF ALL NEW AND EXISTING SANITARY SEWER LINES PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH EXISTING OR NEW CONDITIONS.
- ALL WORK WITHIN THE PUBLIC RIGHT OF WAY SHALL CONFORM TO CITY OF STEPHENVILLE STANDARDS AND ALL APPLICABLE CODES.
- DRY UTILITY ONE LINES SHOWN IN RESPECTIVE DISCIPLINE DRAWINGS.

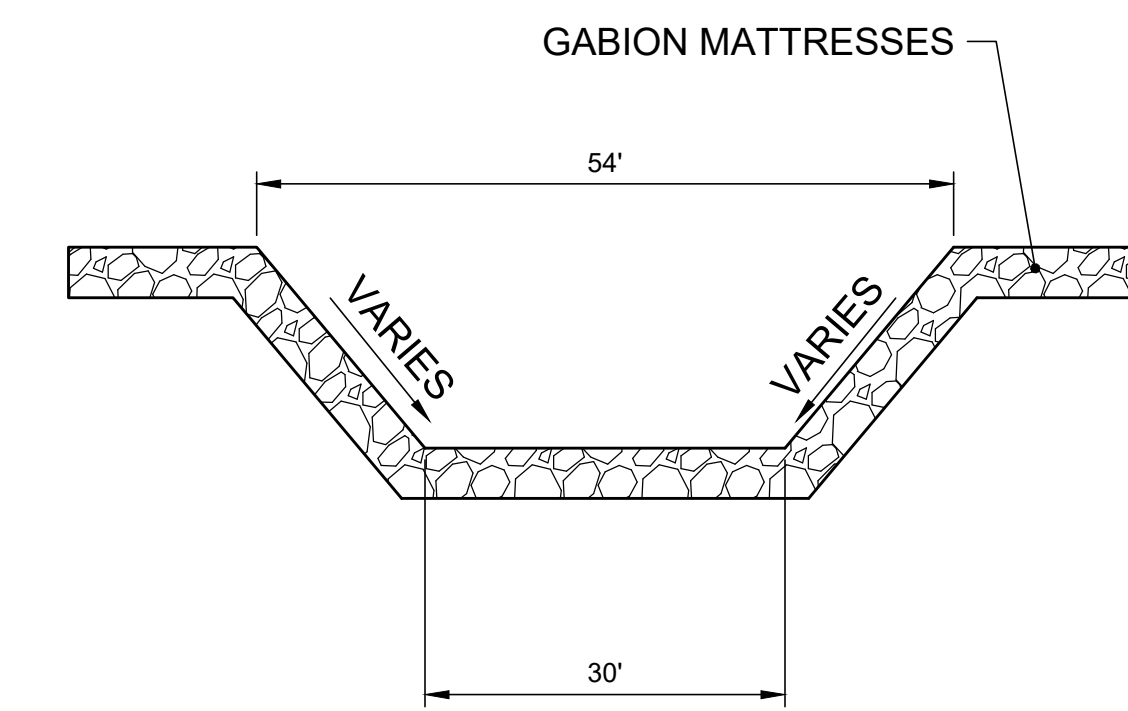
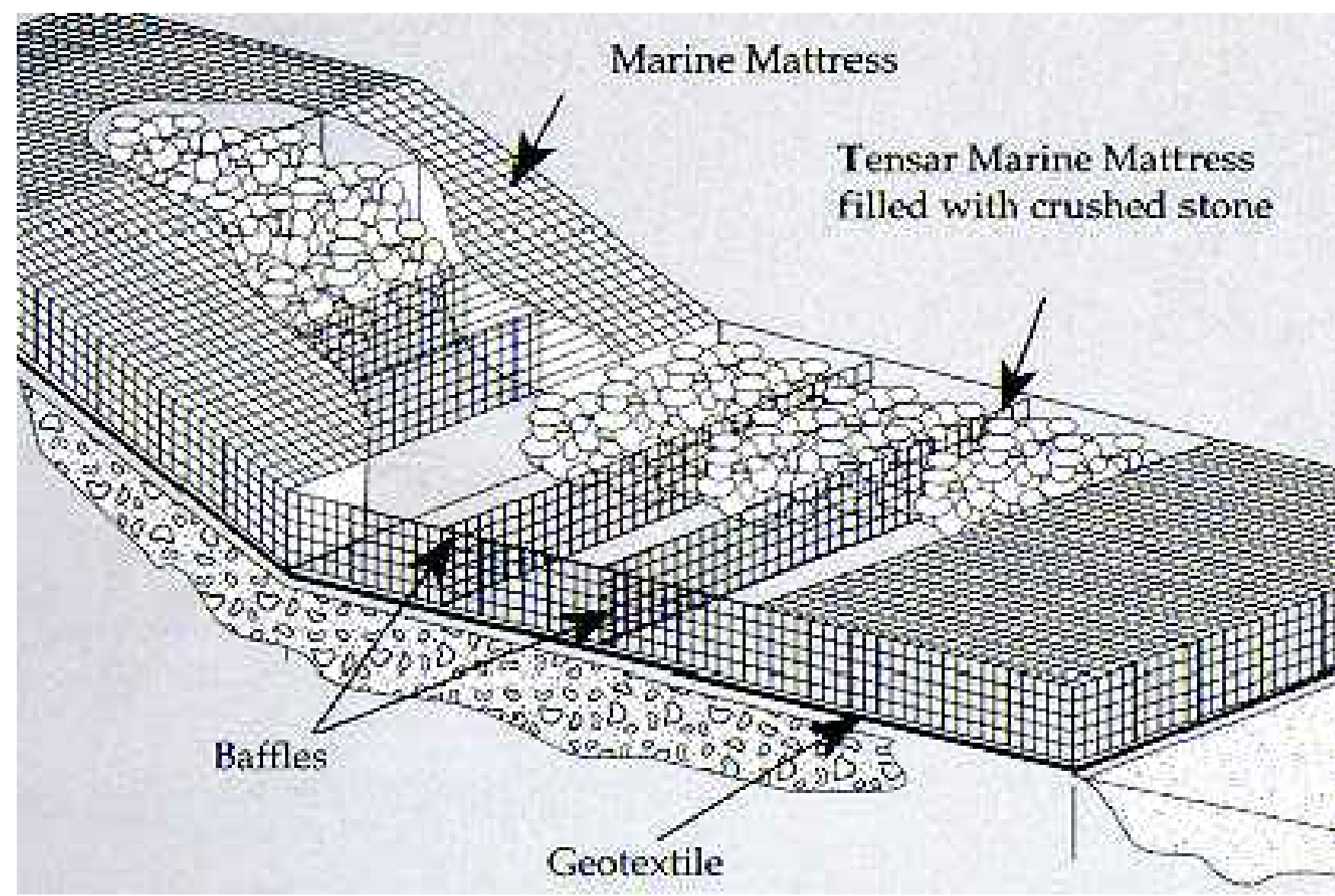
LEGEND

- PROPERTY LINE
- 8" — 12" — EXISTING SANITARY SEWER LINE WITH MANHOLE
- W — EXISTING WATER LINE WITH VALVE
- ⊗ — EXISTING FIRE HYDRANT
- G — EXISTING GAS LINE WITH METER
- T — NEW TELECOMMUNICATIONS LINE (SEE ELECTRICAL PLANS)
- UE — NEW UNDERGROUND ELECTRIC LINE (SEE ELECTRICAL PLANS)
- W — 6" — NEW 6" DOMESTIC WATER LINE WITH VALVE
- F — NEW 8" PVC C900 DR-14 FIRE PROTECTION WATER LINE
- ⊗ — NEW FIRE HYDRANT
- 8" — 36" — NEW 8" SDR 35 SEWER LINE WITH 4" MANHOLE
- SD — NEW HDPE STORM DRAIN LINE
- ⊞ — NEW ELECTRICAL TRANSFORMER



A1 OVERALL UTILITY PLAN
1" = 50'

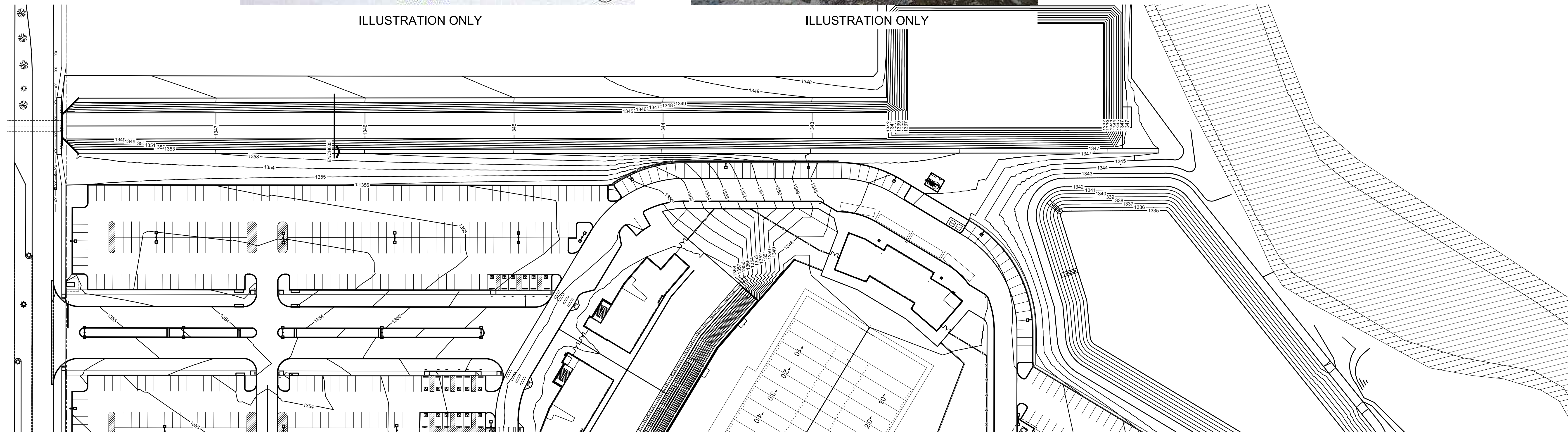
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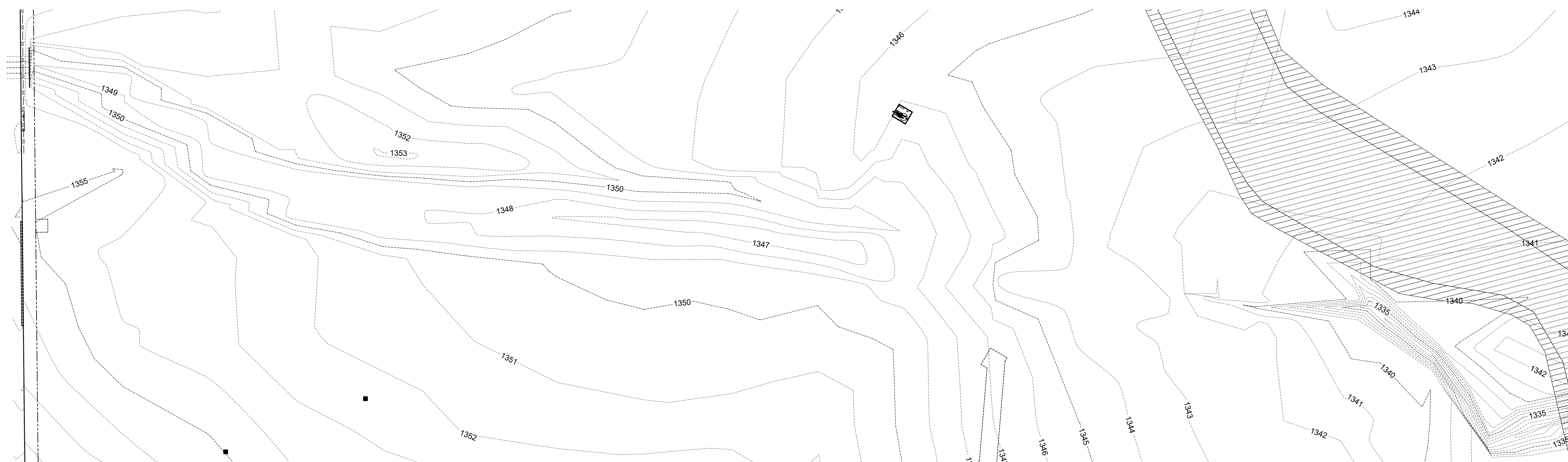
E6 CHANNEL X-SECTION DETAIL
NOT TO SCALE

ILLUSTRATION ONLY

ILLUSTRATION ONLY



C1 POST-DEVELOPMENT CHANNEL
1" = 50'



A1 PRE-DEVELOPMENT CHANNEL
1" = 50'

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Honeybees & Yellowjackets

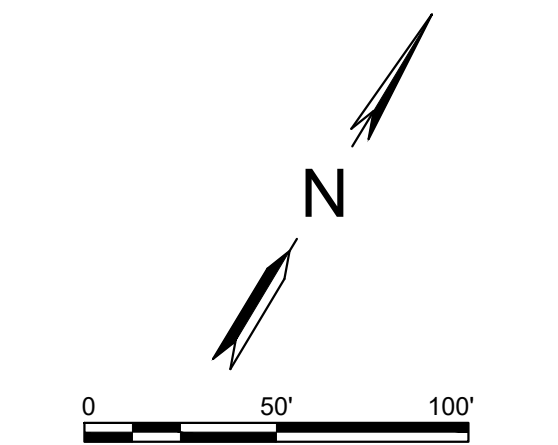


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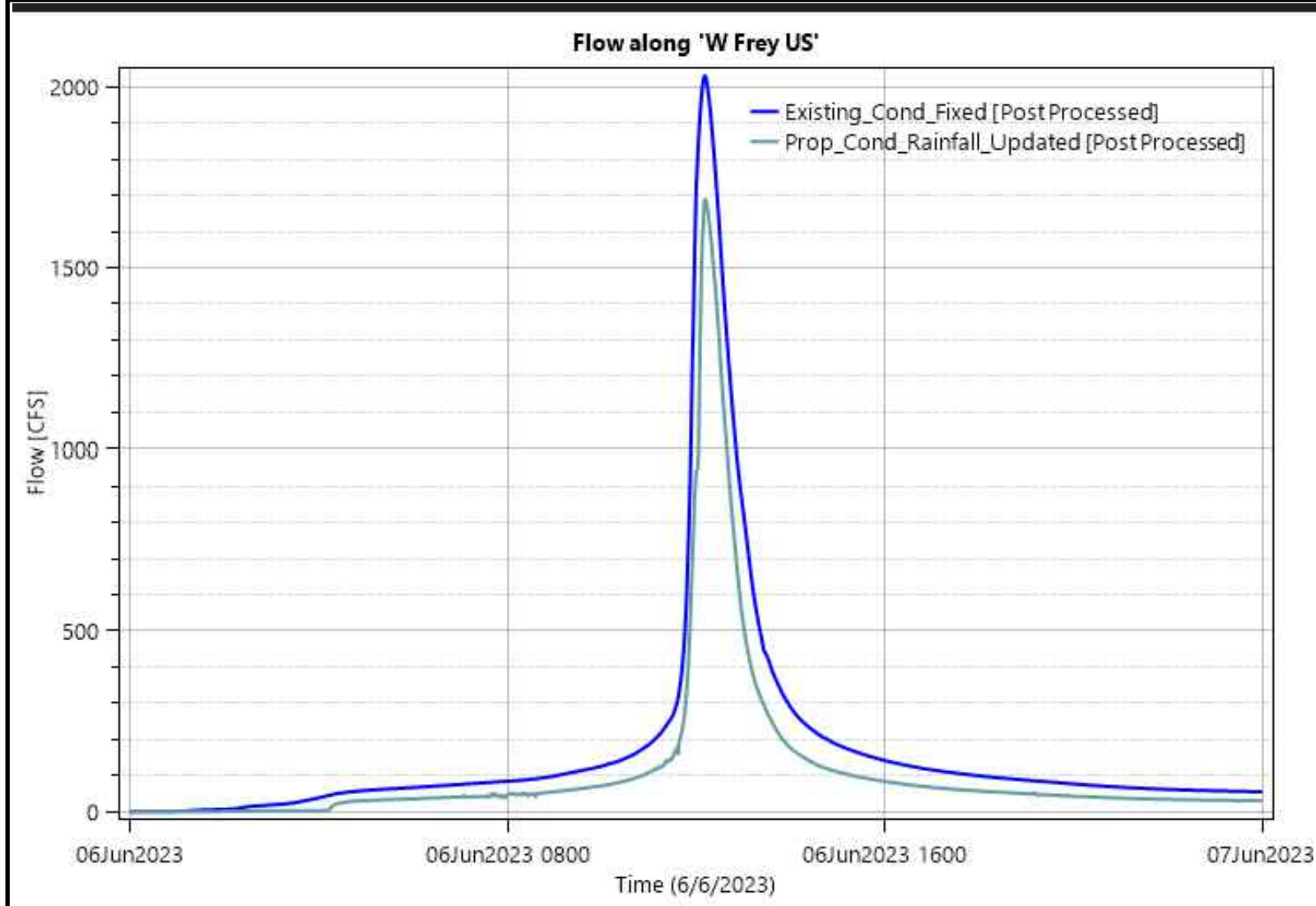
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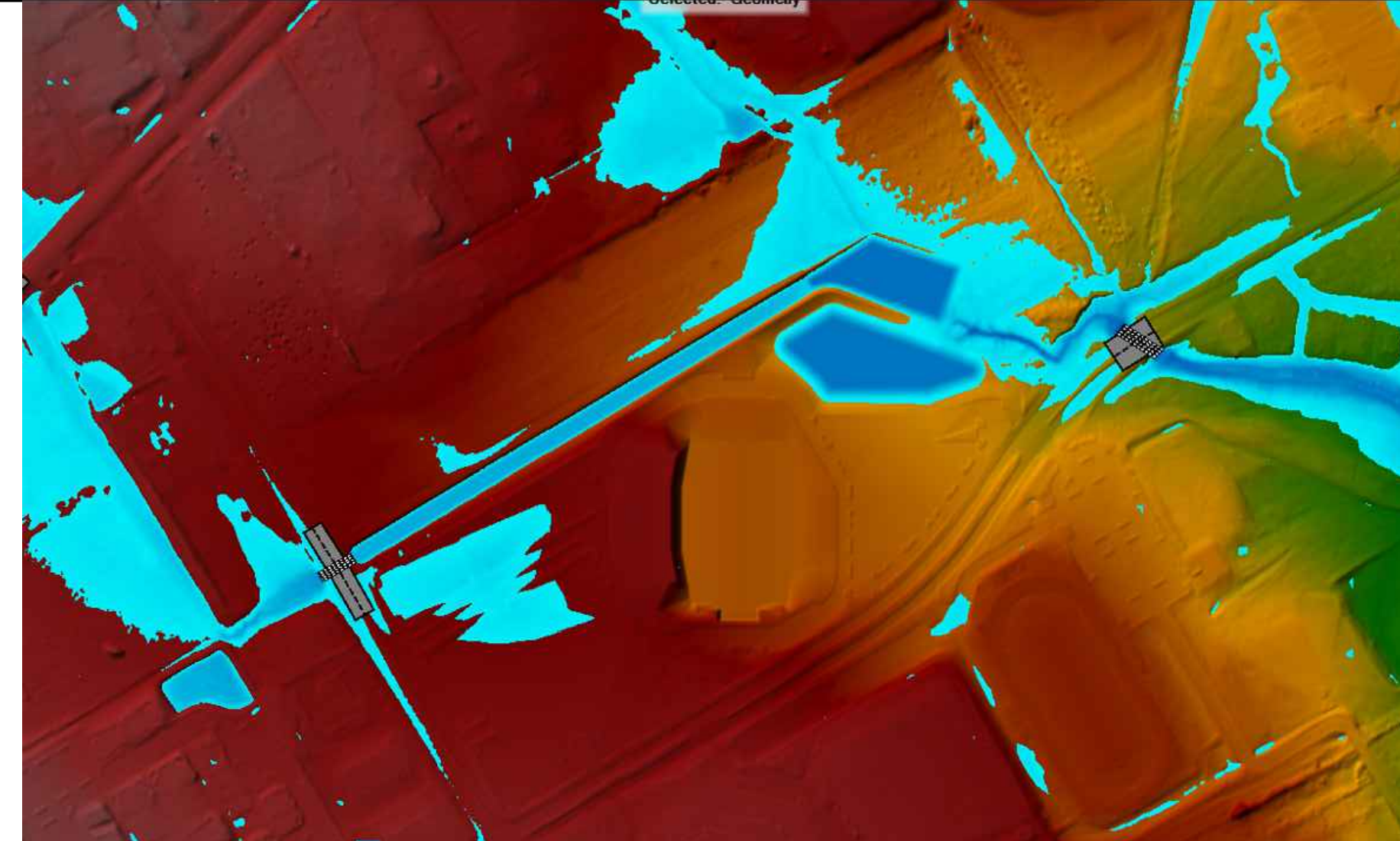
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**Pre And Post
Development
Channel
CH001**

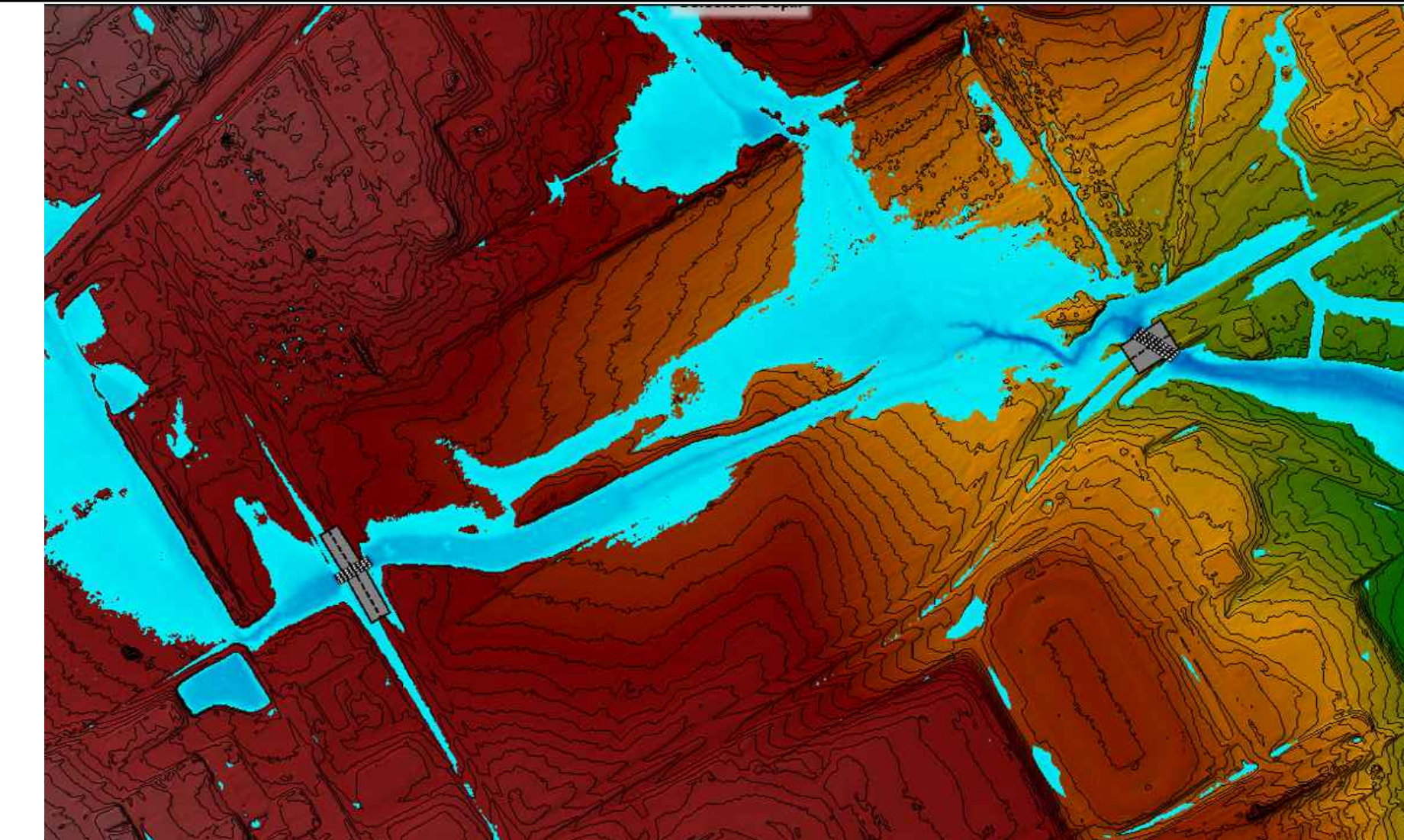
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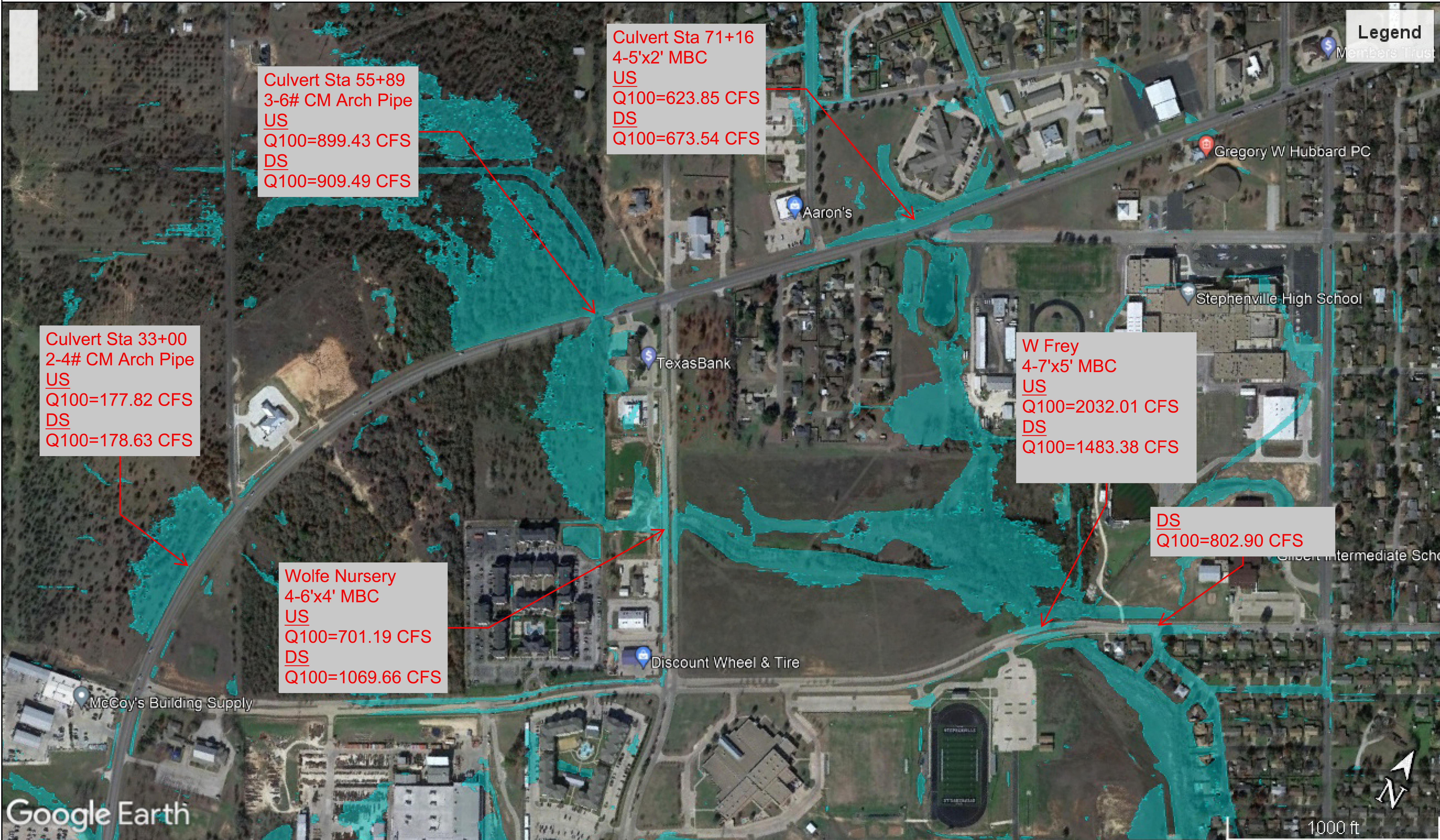
**FLOW COMPARISON
100 YR**



**DEPTH OF FLOODING - PROPOSED
CONDITION 1FT DEPTH**



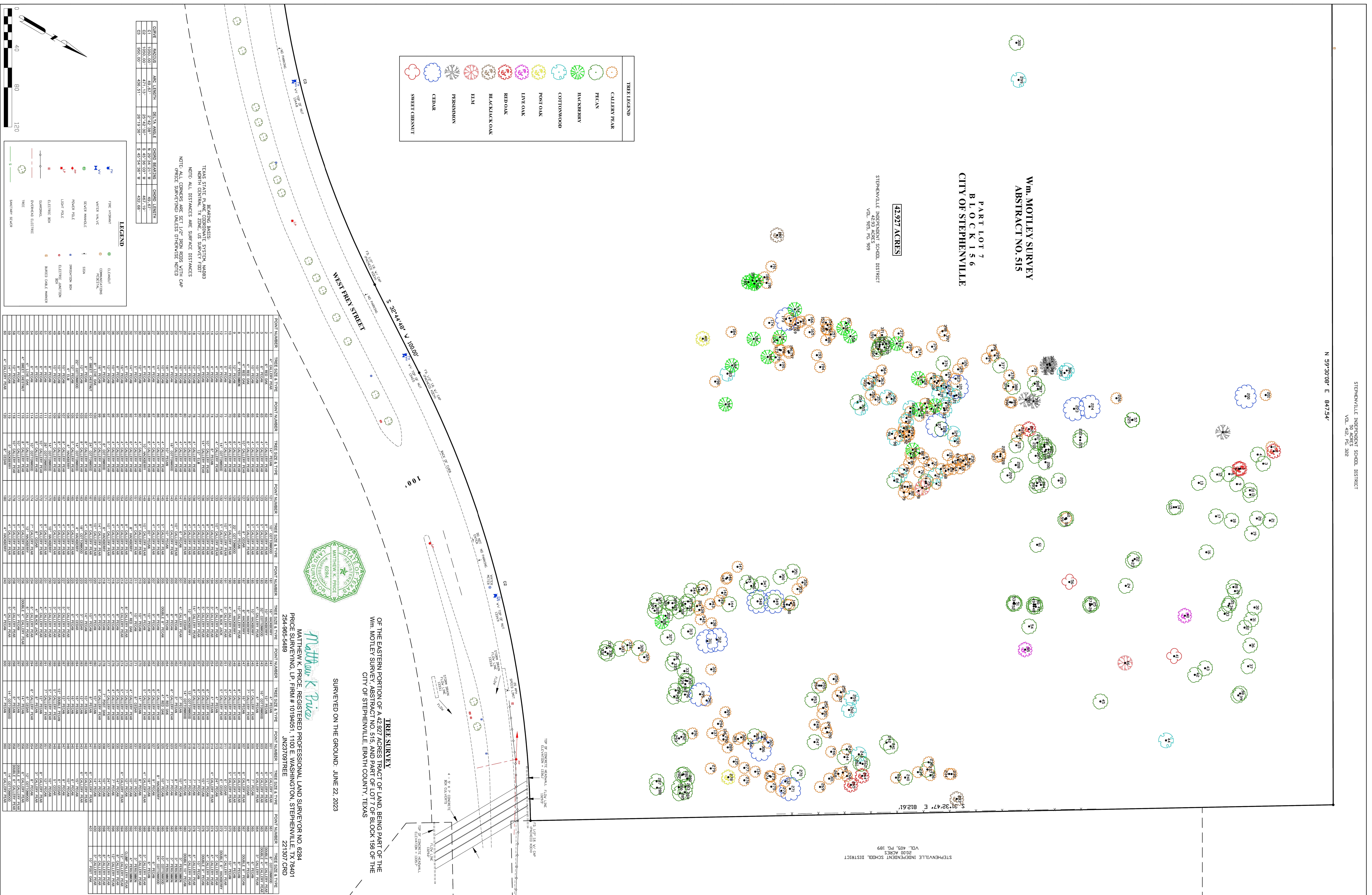
**DEPTH OF FLOODING - EXISTING
CONDITION 1FT DEPTH**



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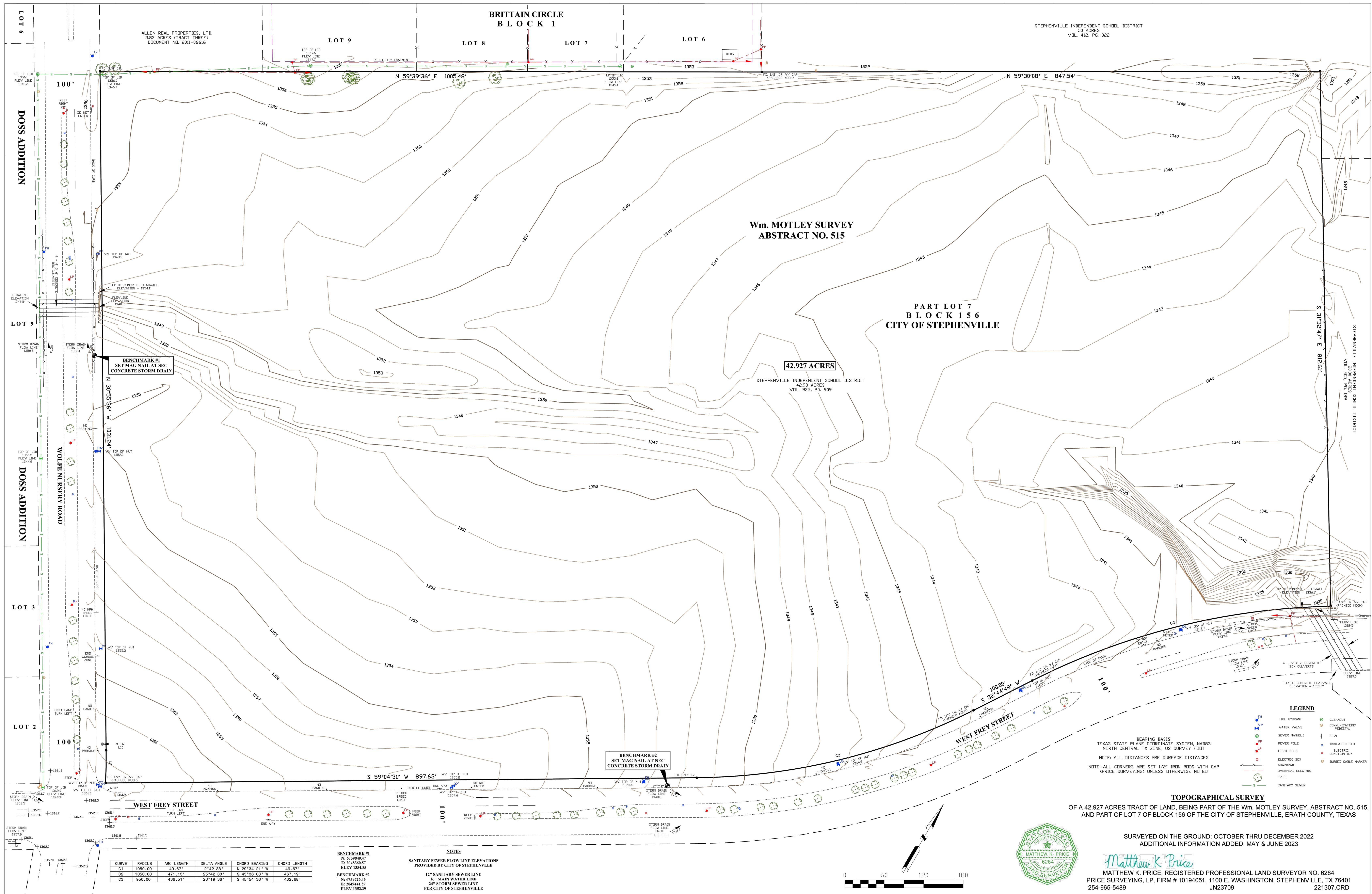


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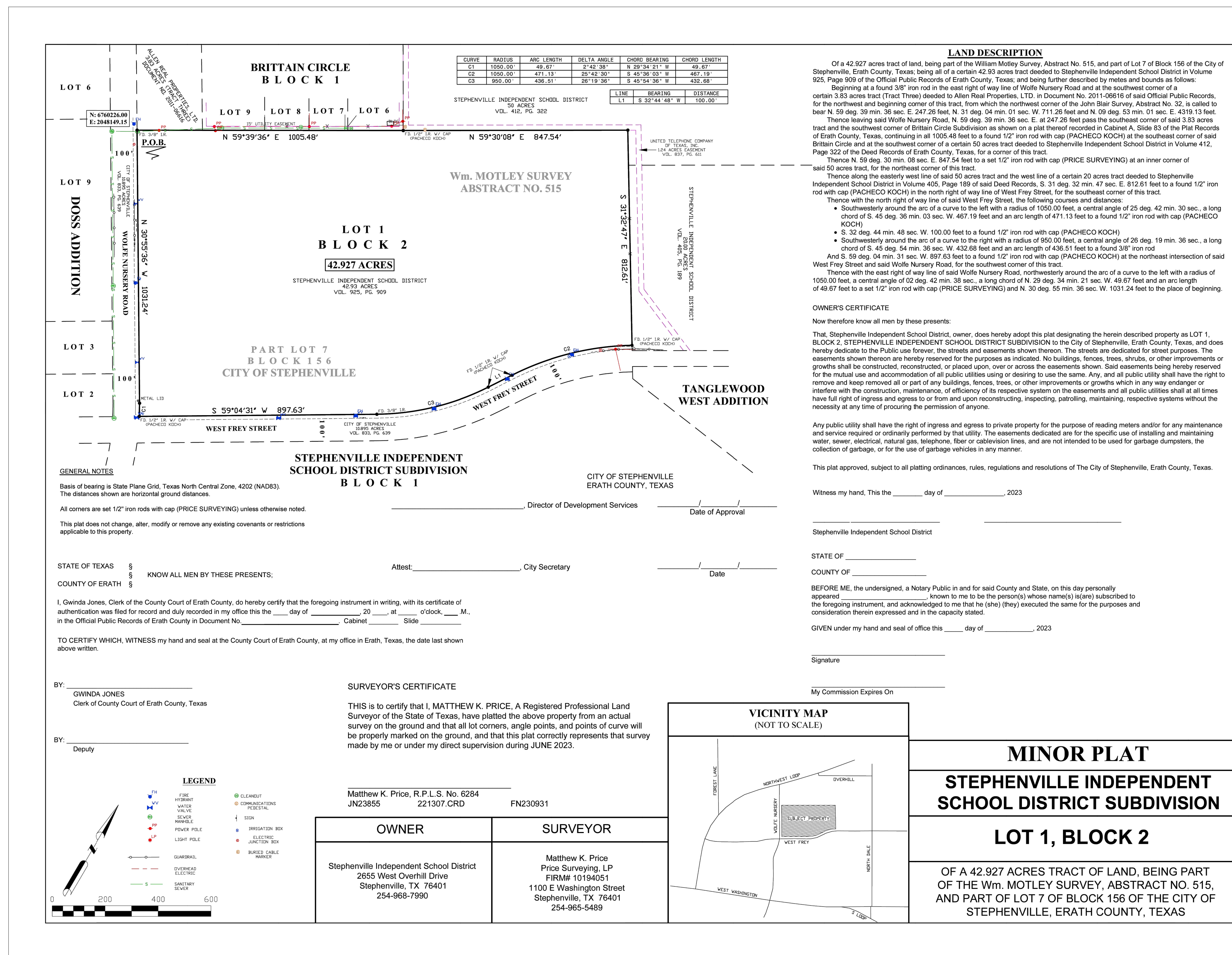


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1	08/25/2023	Development Plan Submittal

LEGEND

- 6' HT. CHAIN LINK FENCE, REF. A1/L-501
- 6' HT. CHAIN LINK FENCE WITH CONCRETE EDGING, REF. A1/L-501
- 4' HT. CHAIN LINK FENCE WITH CONCRETE EDGING, REF. A1/L-501
- 8' HEIGHT ORNAMENTAL STEEL STADIUM FENCE, REF. B4/L-501

KEY NOTES

1. 6' HT. CHAIN LINK FENCE W/OUT CONCRETE EDGING, REF. A1/L-501
2. GUARD RAIL, REF. B2/L-501
3. CHAIN LINK SINGLE MAN GATE AT LIFT STATION, REF. C-505
4. CHAIN LINK FENCE AT LIFT STATION, REF. C-505
5. 4' HT. CHAIN LINK FENCE WITH CONCRETE EDGING, REF. A1/L-501
6. GROUTED RIP RAP, REF. CIVIL

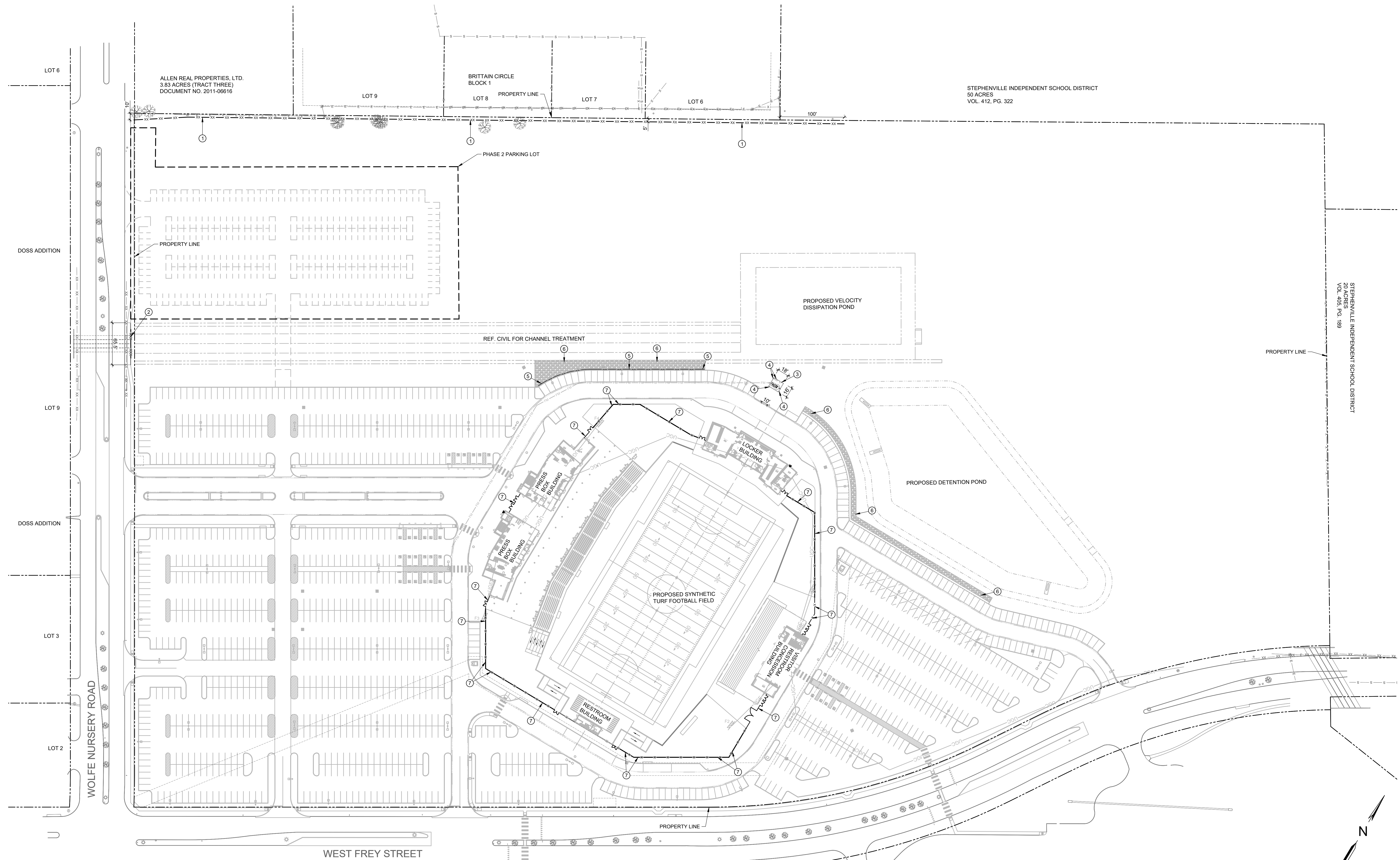
PHASE 2 LEGEND

- 8' HEIGHT ORNAMENTAL STEEL FENCE, REF. B4/L-501

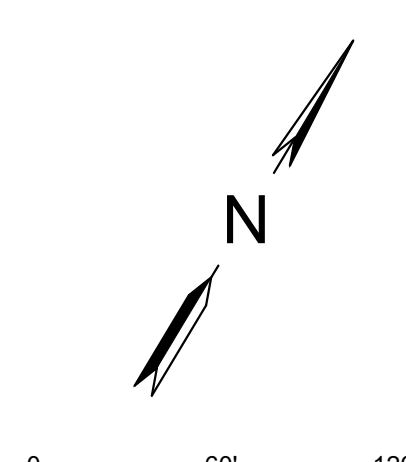
PHASE 2 KEY NOTES

7. 8' HEIGHT ORNAMENTAL STEEL STADIUM FENCE, REF. B4/L-501

EXISTING UTILITIES
CONTRACTOR MUST VERIFY LOCATION OF ALL OVERHEAD AND UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH CITY OFFICIALS AND UTILITY COMPANIES IN LOCATING UTILITIES. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR LOSSES DUE TO DAMAGE TO UTILITIES. LOCATION FOR ALL UTILITIES SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL CALL TEXAS 811, 1-800-344-8377.



A1 OVERALL TREE PRESERVATION AND PROTECTION PLAN
1" = 60'



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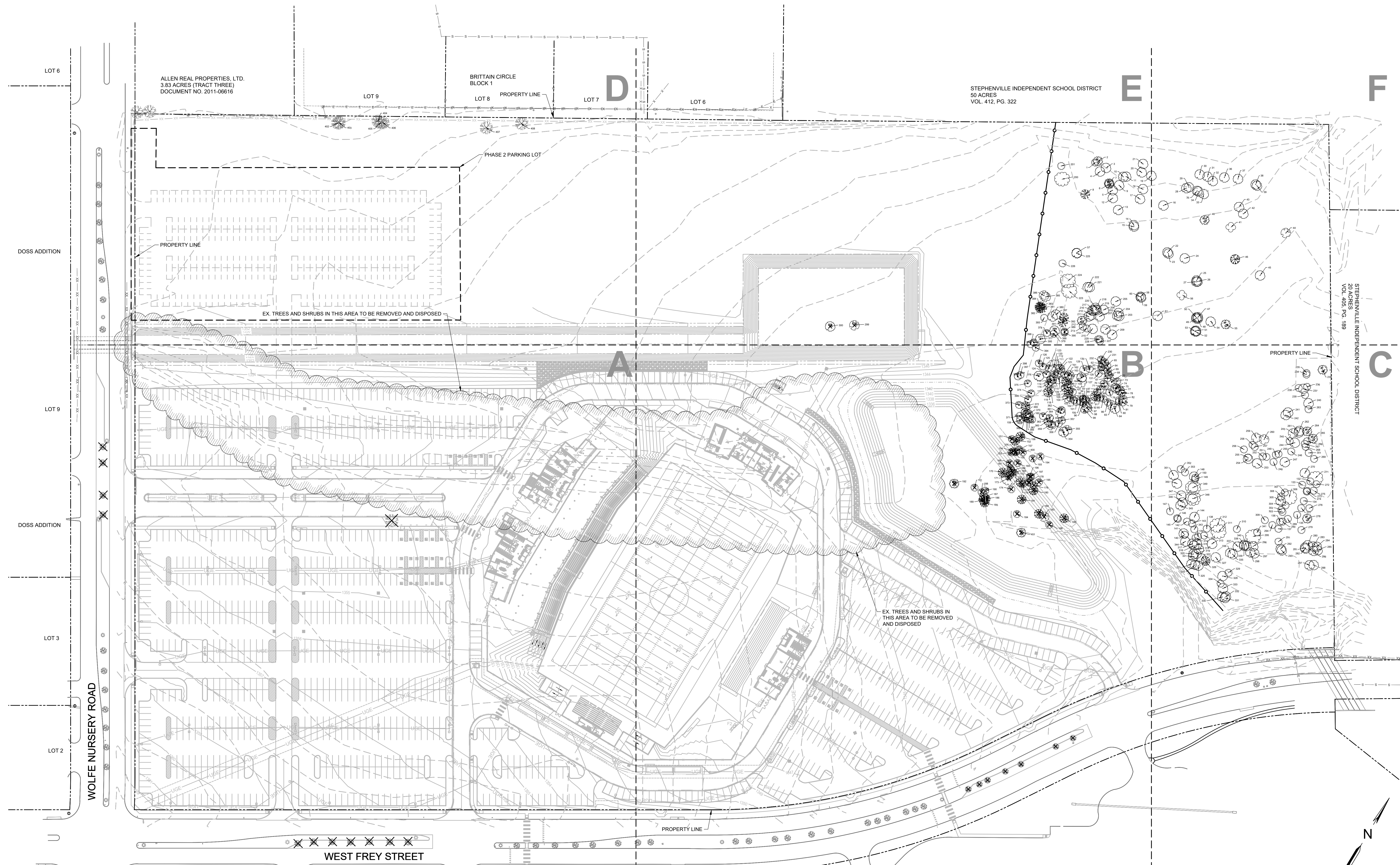
GENERAL NOTES

A. REFER TO SHEET LT107 FOR TREE DATA TABLES

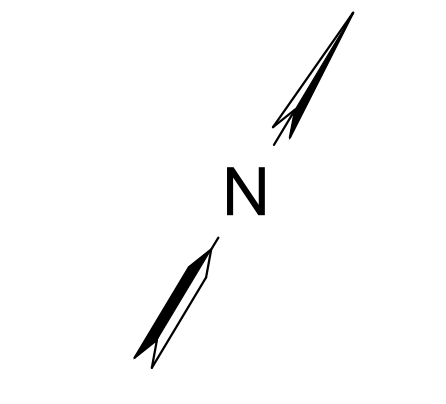
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LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED AND DISPOSED. CONTRACTOR TO GRID STUMP 12" BELOW GRADE AND REMOVE ROOTBALL.
- TREE PROTECTION FENCING, REF. A1/L-502



A1 OVERALL TREE PRESERVATION AND PROTECTION PLAN
1" = 60'



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CLIENT

Stephenville ISD
N Frey & N Wolfe Nursery Rd.
Stephenville, TX 76401

PROJECT NO.

40108.22

KEY PLAN

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A	B	C

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3	09/15/2023	Development Plan Re-Submittal
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**Tree Preservation
And Protection
Plan 'Area A'**
LT101

KEY NOTES

1. TREE PROTECTION FENCING PER A41L-502

GENERAL NOTES

- A. REFER TO SHEET LT107 FOR TREE DATA TABLES

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED AND DISPOSED. CONTRACTOR TO GRID STUMP 12" BELOW GRADE AND REMOVE ROOTBALL.
- TREE PROTECTION FENCING. REF. A11L-502

EXISTING UTILITIES
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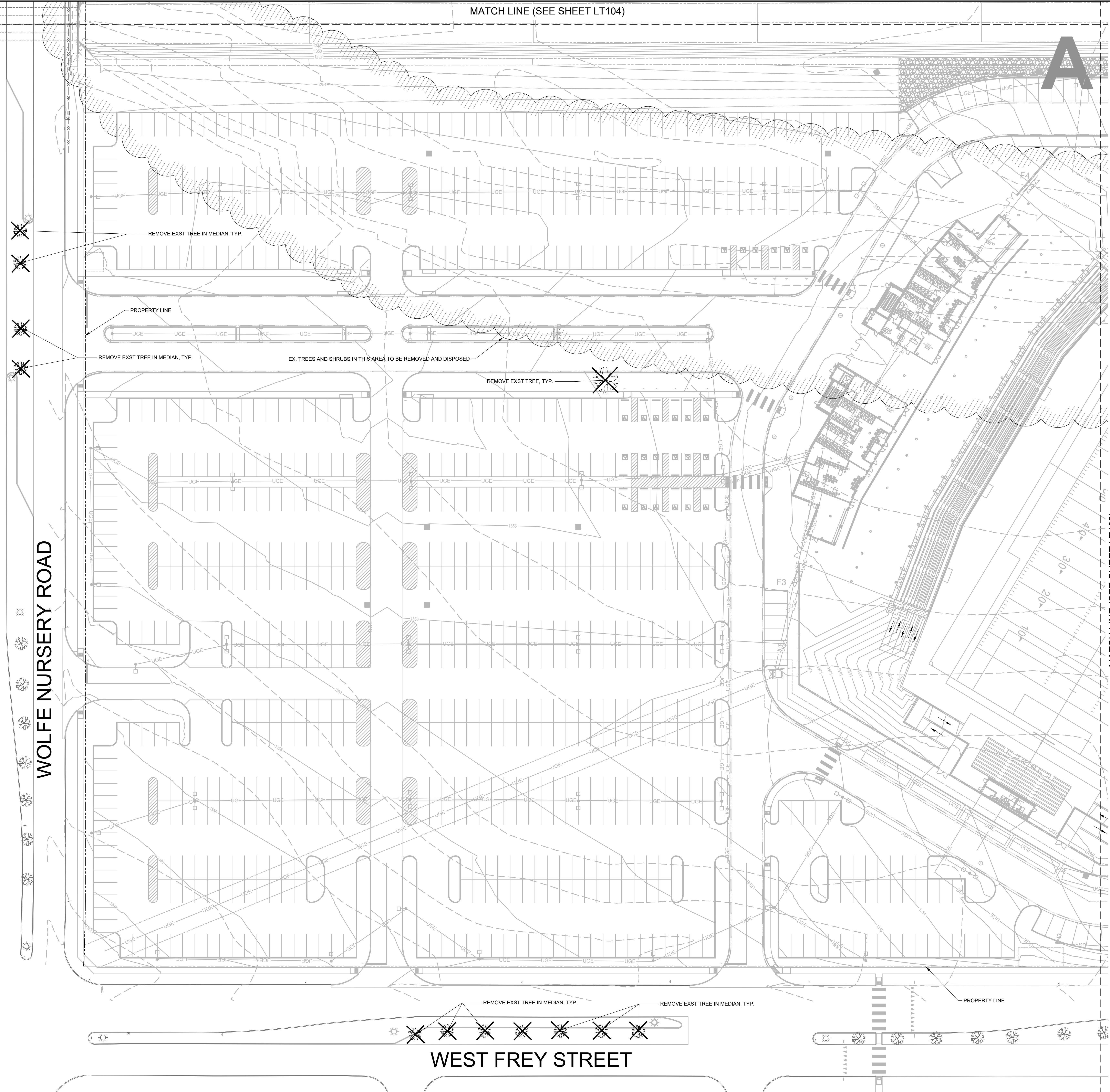
MATCH LINE (SEE SHEET LT104)

A

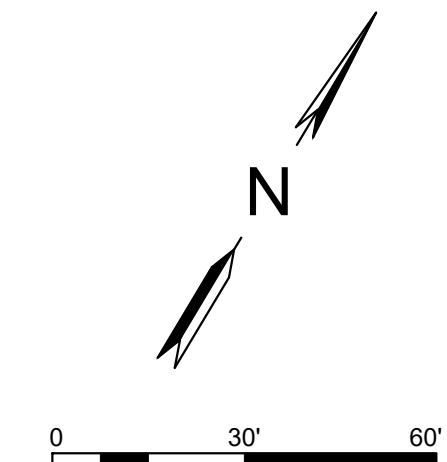
MATCH LINE (SEE SHEET LT102)

WOLFE NURSERY ROAD

WEST FREY STREET



A1 TREE PRESERVATION AND PROTECTION PLAN - AREA A
1" = 30'



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Stephenville ISD
N Frey & N Wolfe Nursery Rd.
Stephenville, TX 76401

PROJECT NO.

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KEY PLAN

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Tree Preservation And Protection Plan 'Area B'
LT102

MATCH LINE (SEE SHEET LT105)

KEY NOTES

1. TREE PROTECTION FENCING PER A41L-502

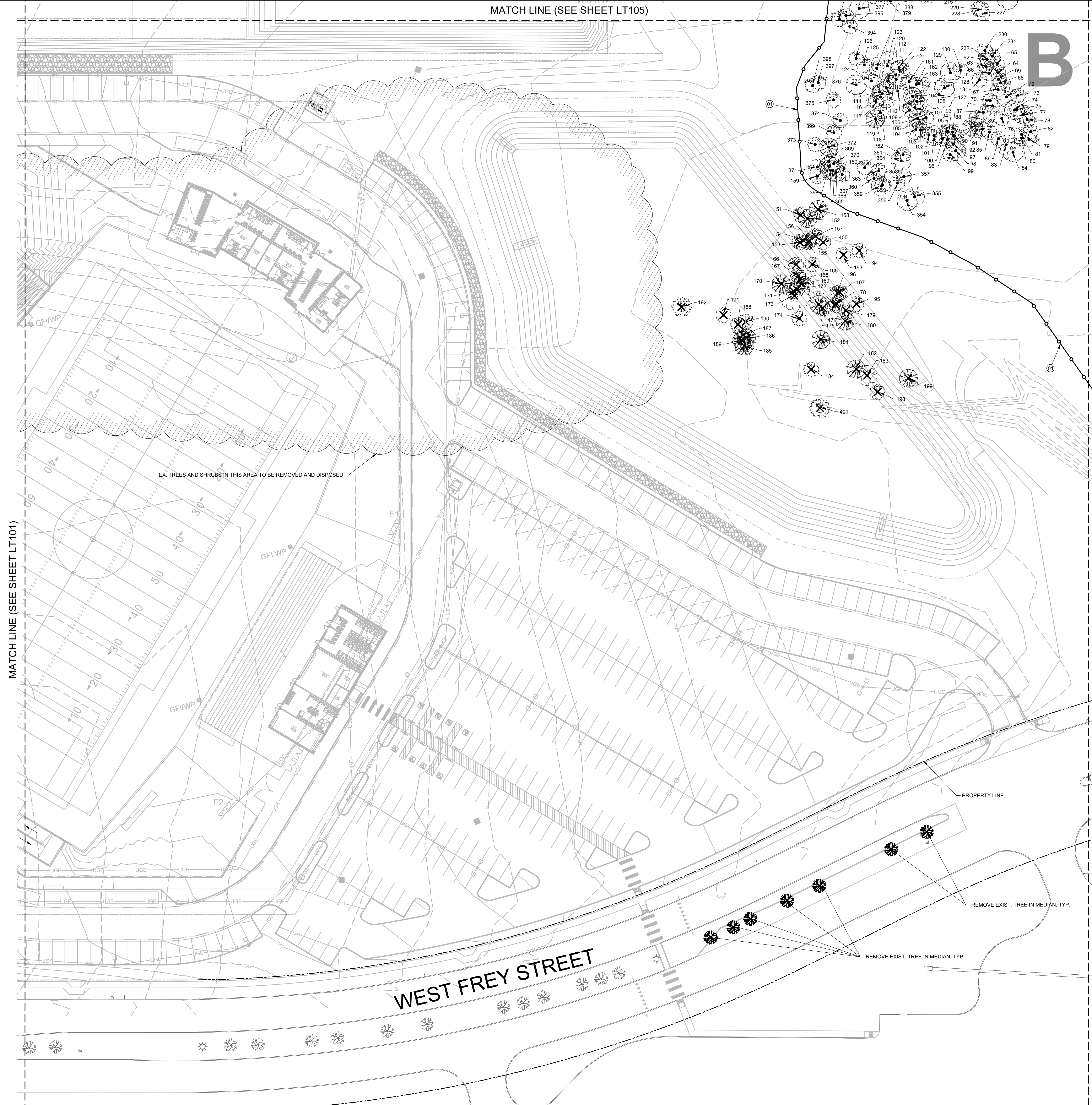
GENERAL NOTES

- A. REFER TO SHEET LT107 FOR TREE DATA TABLES

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED AND DISPOSED. CONTRACTOR TO GRID STUMP 12" BELOW GRADE AND REMOVE ROOTBALL.
- TREE PROTECTION FENCING. REF. A11L-502

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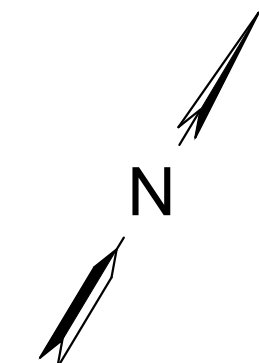
EX. TREES AND SHRUBS IN THIS AREA TO BE REMOVED AND DISPOSED

PROPERTY LINE

REMOVE EXIST. TREE IN MEDIAN, TYP.

REMOVE EXIST. TREE IN MEDIAN, TYP.

WEST FREY STREET



0 30' 60'

A1 TREE PRESERVATION AND PROTECTION PLAN - AREA B

1" = 30'

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Stephenville ISD

N Frey & N Wolfe Nursery Rd.
Stephenville, TX 76401

PROJECT NO.

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**Tree Preservation
And Protection
Plan 'Area C'
LT103**




KEY NOTES

1. TREE PROTECTION FENCING PER A41L-502

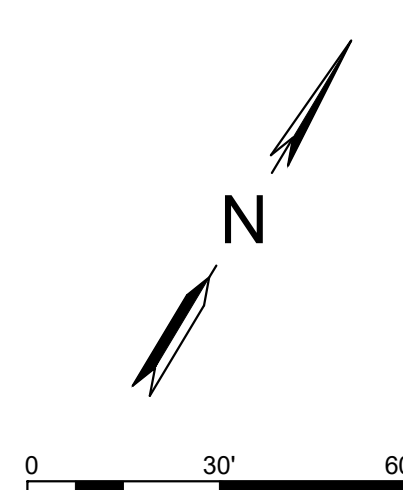
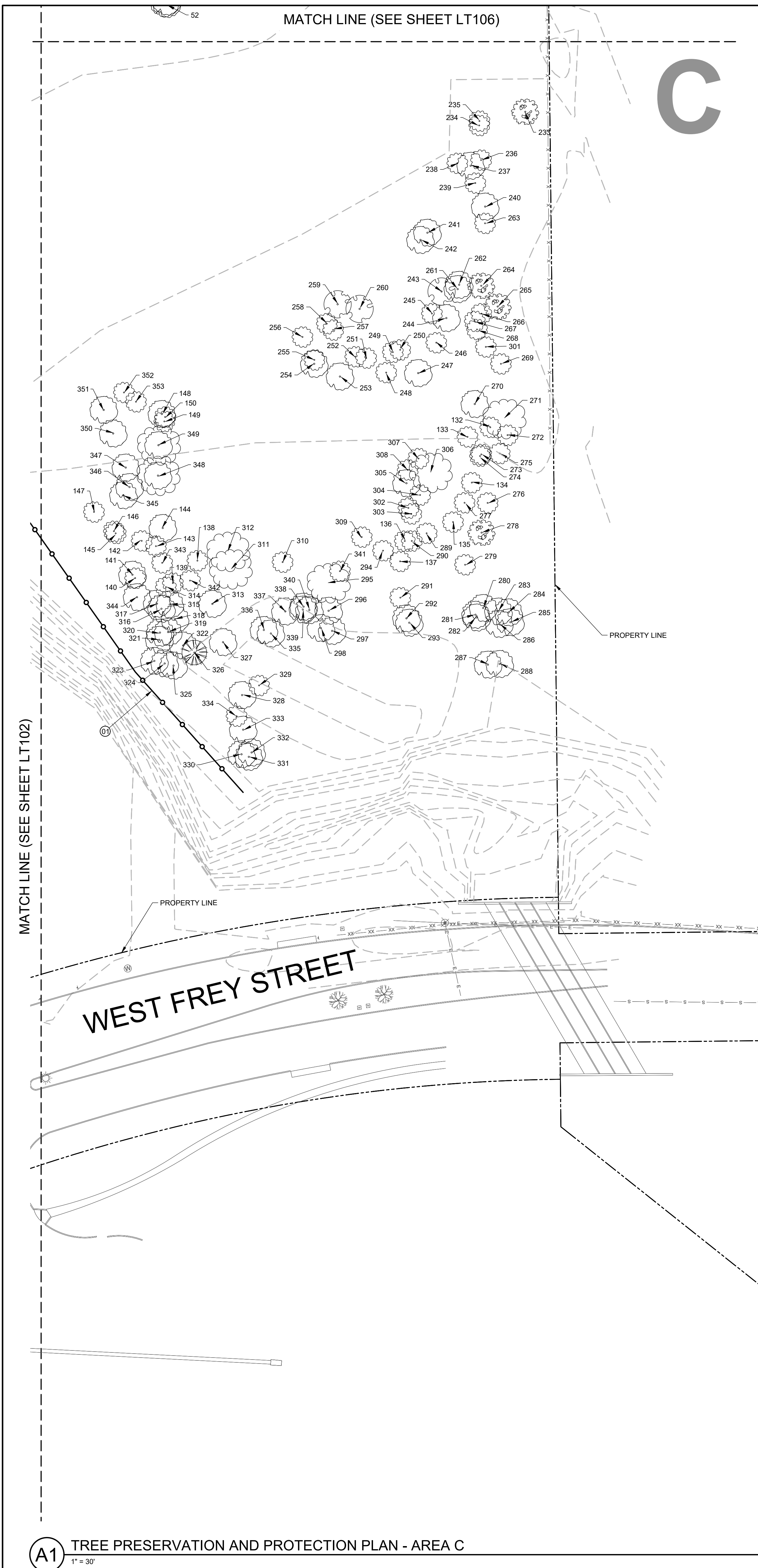
GENERAL NOTES

- A. REFER TO SHEET LT107 FOR TREE DATA TABLES

LEGEND

-  EXISTING TREE TO REMAIN
-  EXISTING TREE TO BE REMOVED AND DISPOSED. CONTRACTOR TO GRID STUMP 12" BELOW GRADE AND REMOVE ROOTBALL.
-  TREE PROTECTION FENCING. REF. A11L-502

EXISTING UTILITIES
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(A1) TREE PRESERVATION AND PROTECTION PLAN - AREA C
1" = 30'

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3	09/15/2023	Development Plan Re-Submittal
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1	08/25/2023	Development Plan Submittal

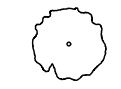

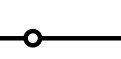
KEY NOTES

- TREE PROTECTION FENCING PER A41L-502

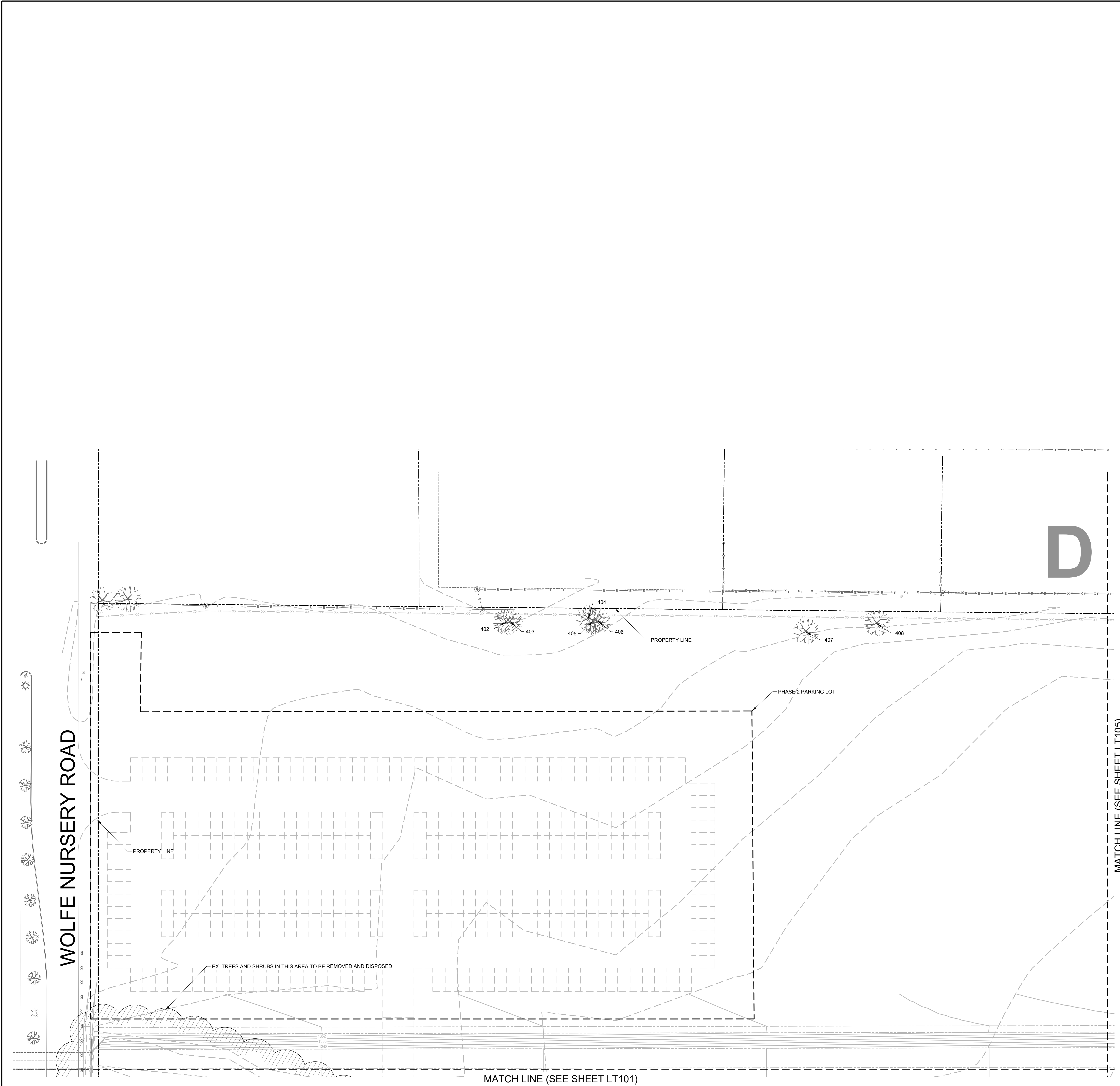
GENERAL NOTES

- REFER TO SHEET LT107 FOR TREE DATA TABLES

LEGEND

-  EXISTING TREE TO REMAIN
-  EXISTING TREE TO BE REMOVED AND DISPOSED. CONTRACTOR TO GRID STUMP 12" BELOW GRADE AND REMOVE ROOTBALL.
-  TREE PROTECTION FENCING. REF. A11L-502

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A1 TREE PRESERVATION AND PROTECTION PLAN - AREA D
1" = 30'

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CLIENT

Stephenville ISD
N Frey & N Wolfe Nursery Rd.
Stephenville, TX 76401

PROJECT NO.

40108.22

KEY PLAN

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A	B	C

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**Tree Preservation
And Protection
Plan 'Area E'**
LT105

KEY NOTES

- TREE PROTECTION FENCING PER A41L-502

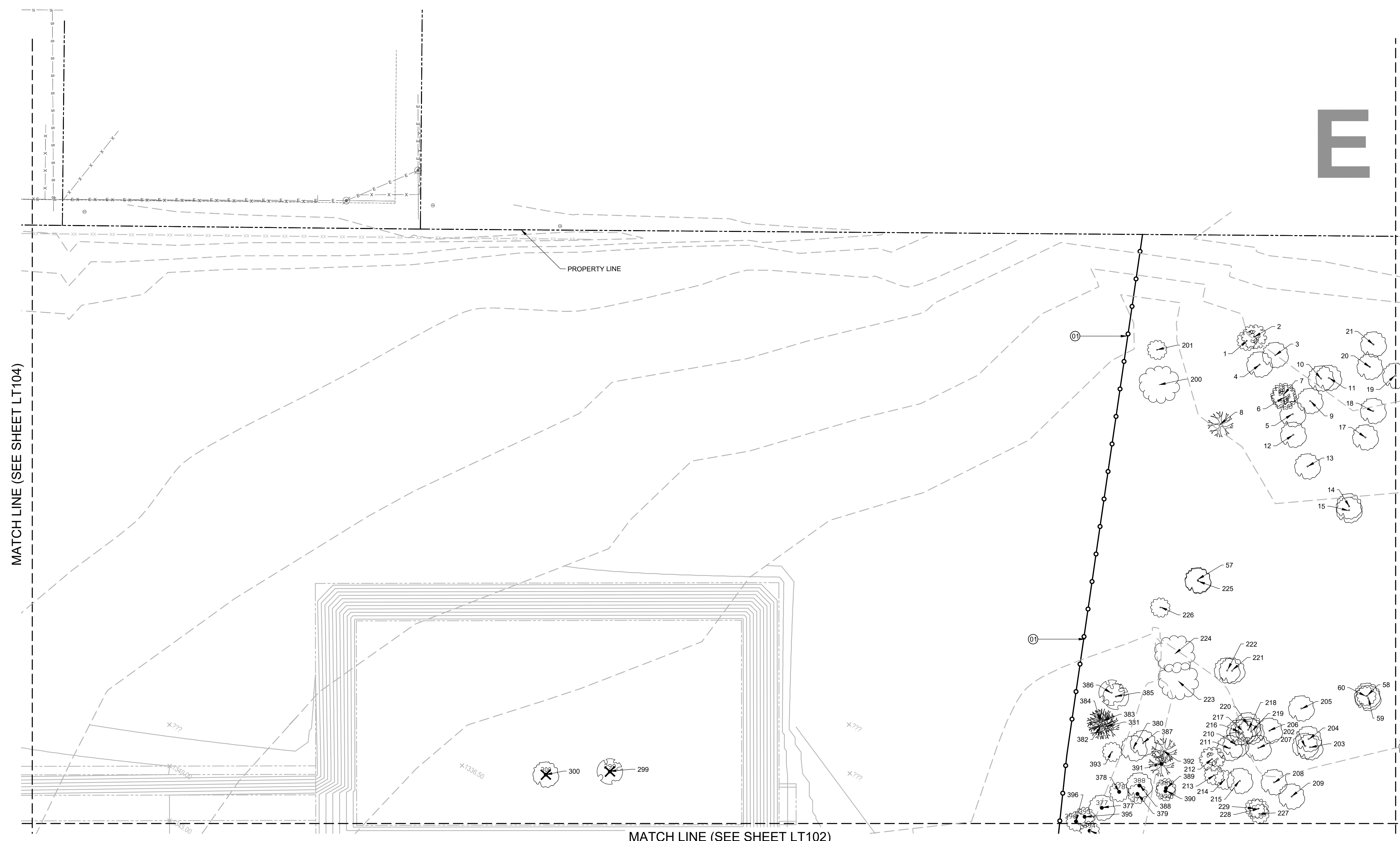
GENERAL NOTES

- REFER TO SHEET LT107 FOR TREE DATA TABLES

LEGEND

- EXISTING TREE TO REMAIN
- EXISTING TREE TO BE REMOVED AND DISPOSED. CONTRACTOR TO GRID STUMP 12" BELOW GRADE AND REMOVE ROOTBALL.
- TREE PROTECTION FENCING. REF. A11L-502

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A1 TREE PRESERVATION AND PROTECTION PLAN - AREA E
1" = 30'



CLIENT

Stephenville ISD
N Frey & N Wolfe Nursery Rd.
Stephenville, TX 76401

PROJECT NO.

40108.22

KEY PLAN

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A	B	C

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1	08/25/2023	Development Plan Submittal

DATE DESCRIPTION

**Tree Preservation
And Protection
Plan 'Area F'
LT106**




KEY NOTES

- TREE PROTECTION FENCING PER A41L-502

GENERAL NOTES

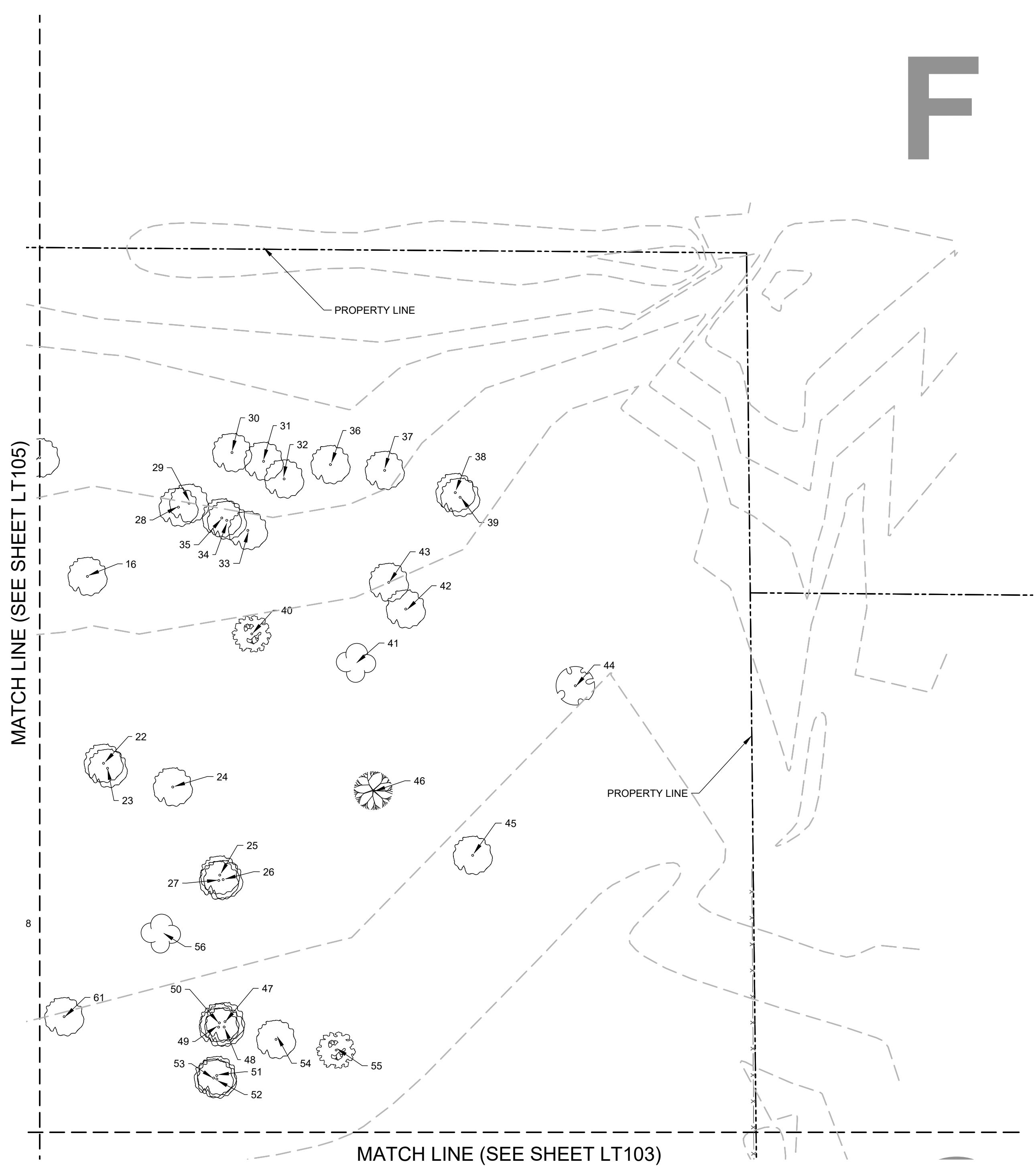
- REFER TO SHEET LT107 FOR TREE DATA TABLES

LEGEND

-  EXISTING TREE TO REMAIN
-  EXISTING TREE TO BE REMOVED AND DISPOSED. CONTRACTOR TO GRID STUMP 12" BELOW GRADE AND REMOVE ROOTBALL.
-  TREE PROTECTION FENCING. REF. A1/L-502

EXISTING UTILITIES
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F



A1 TREE PRESERVATION AND PROTECTION PLAN - AREA F
1" = 30'

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SITE LANDSCAPE CREDITS

TOTAL TREES TO BE REMOVED 48 TREES (370 CALIPER INCHES)
 3"-5" CALIPER TREES PRESERVED 115 TREES (23,000 SF LANDSCAPE CREDITS)
 6"+ CALIPER TREES PRESERVED 244 TREES (195,200 SF LANDSCAPE CREDITS)
TOTAL LANDSCAPE CREDITS 339 TREES (218,200 SF LANDSCAPE CREDITS)

NOTE ONLY TREES WITHIN LOT LISTED ABOVE

TREE SURVEY DATA				TREE SURVEY DATA				TREE SURVEY DATA				TREE SURVEY DATA				TREE SURVEY DATA			
TREE #	SPECIES	DIA. (IN)	PRESERVE / REMOVE	TREE #	SPECIES	DIA. (IN)	PRESERVE / REMOVE	TREE #	SPECIES	DIA. (IN)	PRESERVE / REMOVE	TREE #	SPECIES	DIA. (IN)	PRESERVE / REMOVE	TREE #	SPECIES	DIA. (IN)	PRESERVE / REMOVE
1	CALLERY PEAR	4	PRESERVE	101	COTTONWOOD	24	PRESERVE	201	CALLERY PEAR	4	PRESERVE	301	CALLERY PEAR	5	PRESERVE	401	POST OAK	10	REMOVE
2	RED OAK	6	PRESERVE	102	CALLERY PEAR	8	PRESERVE	202	PECAN	8	PRESERVE	302	CALLERY PEAR	6	PRESERVE	402	HACKBERRY	12	PRESERVE
3	PECAN	6	PRESERVE	103	CALLERY PEAR	8	PRESERVE	203	PECAN	8	PRESERVE	303	CALLERY PEAR	4	PRESERVE	403	HACKBERRY	12	PRESERVE
4	PECAN	10	PRESERVE	104	COTTONWOOD	14	PRESERVE	204	PECAN	8	PRESERVE	304	CALLERY PEAR	6	PRESERVE	404	HACKBERRY	12	PRESERVE
5	PECAN	10	PRESERVE	105	CALLERY PEAR	5	PRESERVE	205	DOUBLE PECAN	8	PRESERVE	305	PECAN	7	PRESERVE	405	HACKBERRY	12	PRESERVE
6	RED OAK	4	PRESERVE	106	HACKBERRY	4	PRESERVE	206	PECAN	8	PRESERVE	306	CEDAR	8	PRESERVE	406	HACKBERRY	12	PRESERVE
7	RED OAK	4	PRESERVE	107	CALLERY PEAR	8	PRESERVE	207	PECAN	9	PRESERVE	307	CALLERY PEAR	6	PRESERVE	407	HACKBERRY	12	PRESERVE
8	PERSIMMON	6	PRESERVE	108	CALLERY PEAR	8	PRESERVE	208	PECAN	10	PRESERVE	308	CALLERY PEAR	8	PRESERVE	408	HACKBERRY	12	PRESERVE
9	PECAN	12	PRESERVE	109	CALLERY PEAR	4	PRESERVE	209	PECAN	8	PRESERVE	309	CALLERY PEAR	5	PRESERVE				
10	PECAN	10	PRESERVE	110	COTTONWOOD	14	PRESERVE	210	PECAN	10	PRESERVE	310	CALLERY PEAR	5	PRESERVE				
11	PECAN	5	PRESERVE	111	COTTONWOOD	28	PRESERVE	211	PECAN	10	PRESERVE	311	PECAN	6	PRESERVE				
12	PECAN	6	PRESERVE	112	CALLERY PEAR	8	PRESERVE	212	RED OAK	4	PRESERVE	312	CEDAR	6	PRESERVE				
13	PECAN	4	PRESERVE	113	CALLERY PEAR	8	PRESERVE	213	CALLERY PEAR	8	PRESERVE	313	PECAN	24	PRESERVE				
14	PECAN	4	PRESERVE	114	COTTONWOOD	10	PRESERVE	214	CALLERY PEAR	4	PRESERVE	314	CALLERY PEAR	4	PRESERVE				
15	PECAN	4	PRESERVE	115	CALLERY PEAR	8	PRESERVE	215	PECAN	8	PRESERVE	315	PECAN	11	PRESERVE				
16	PECAN	6	PRESERVE	116	CALLERY PEAR	8	PRESERVE	216	PECAN	4	PRESERVE	316	PECAN	15	PRESERVE				
17	PECAN	12	PRESERVE	117	CALLERY PEAR	10	PRESERVE	217	PECAN	5	PRESERVE	317	PECAN	7	PRESERVE				
18	PECAN	12	PRESERVE	118	CALLERY PEAR	10	PRESERVE	218	PECAN	6	PRESERVE	318	PECAN	7	PRESERVE				
19	PECAN	16	PRESERVE	119	HACKBERRY	5	PRESERVE	219	PECAN	6	PRESERVE	319	PECAN	7	PRESERVE				
20	PECAN	10	PRESERVE	120	CEDAR	8	PRESERVE	220	PECAN	4	PRESERVE	320	PECAN	5	PRESERVE				
21	PECAN	16	PRESERVE	121	COTTONWOOD	10	PRESERVE	221	PECAN	10	PRESERVE	321	PECAN	10	PRESERVE				
22	PECAN	18	PRESERVE	122	CALLERY PEAR	8	PRESERVE	222	PECAN	14	PRESERVE	322	PECAN	8	PRESERVE				
23	PECAN	8	PRESERVE	123	CALLERY PEAR	5	PRESERVE	223	CEDAR	3	PRESERVE	323	PECAN	7	PRESERVE				
24	PECAN	18	PRESERVE	124	CALLERY PEAR	5	PRESERVE	224	CEDAR	5	PRESERVE	324	PECAN	7	PRESERVE				
25	PECAN	10	PRESERVE	125	CALLERY PEAR	5	PRESERVE	225	CALLERY PEAR	6	PRESERVE	325	PECAN	10	PRESERVE				
26	PECAN	14	PRESERVE	126	CALLERY PEAR	8	PRESERVE	226	CALLERY PEAR	3	PRESERVE	326	HACKBERRY	8	PRESERVE				
27	PECAN	6	PRESERVE	127	CEDAR	8	PRESERVE	227	CALLERY PEAR	5	PRESERVE	327	PECAN	9	PRESERVE				
28	PECAN	8	PRESERVE	128	PECAN	10	PRESERVE	228	CALLERY PEAR	3	PRESERVE	328	PECAN	18	PRESERVE				
29	PECAN	6	PRESERVE	129	COTTONWOOD	22	PRESERVE	229	CALLERY PEAR	3	PRESERVE	329	CALLERY PEAR	4	PRESERVE				
30	PECAN	12	PRESERVE	130	CALLERY PEAR	5	PRESERVE	230	CALLERY PEAR	7	PRESERVE	330	PECAN	8	PRESERVE				
31	PECAN	5	PRESERVE	131	CALLERY PEAR	10	PRESERVE	231	CALLERY PEAR	4	PRESERVE	331	PECAN	10	PRESERVE				
32	PECAN	14	PRESERVE	132	CALLERY PEAR	5	PRESERVE	232	CALLERY PEAR	4	PRESERVE	332	PECAN	10	PRESERVE				
33	PECAN	6	PRESERVE	133	CALLERY PEAR	10	PRESERVE	233	BLACK JACK	4	PRESERVE	333	PECAN	12	PRESERVE				
34	PECAN	16	PRESERVE	134	CALLERY PEAR	8	PRESERVE	234	CALLERY PEAR	6	PRESERVE	334	CALLERY PEAR	6	PRESERVE				
35	PECAN	8	PRESERVE	135	CALLERY PEAR	8	PRESERVE	235	CALLERY PEAR	6	PRESERVE	335	PECAN	14	PRESERVE				
36	PECAN	10	PRESERVE	136	CALLERY PEAR	4	PRESERVE	236	DOUBLE CALLERY PEA	4	PRESERVE	336	PECAN	7	PRESERVE				
37	PECAN	12	PRESERVE	137	CALLERY PEAR	4	PRESERVE	237	PECAN	3	PRESERVE	337	PECAN	24	PRESERVE				
38	PECAN	8	PRESERVE	138	CALLERY PEAR	6	PRESERVE	238	CALLERY PEAR	6	PRESERVE	338	PECAN	10	PRESERVE				
39	PECAN	16	PRESERVE	139	CALLERY PEAR	4	PRESERVE	239	CALLERY PEAR	5	PRESERVE	339	PECAN	14	PRESERVE				
40	LIVE OAK	8	PRESERVE	140	CALLERY PEAR	6	PRESERVE	240	PECAN	4	PRESERVE	340	PECAN	14	PRESERVE				
41	SWEET CHESTNUT	5	PRESERVE	141	PECAN	6	PRESERVE	241	PECAN	4	PRESERVE	341	CALLERY PEAR	6	PRESERVE				
42	PECAN	8	PRESERVE	142	CALLERY PEAR	10	PRESERVE	242	PECAN	12	PRESERVE	342	CALLERY PEAR	6	PRESERVE				
43	PECAN	12	PRESERVE	143	CALLERY PEAR	4	PRESERVE	243	COTTONWOOD	16	PRESERVE	343	CALLERY PEAR	6	PRESERVE				
44	COTTONWOOD	22	PRESERVE	144	PECAN	10	PRESERVE	244	PECAN	4	PRESERVE	344	PECAN	15	PRESERVE				
45	PECAN	12	PRESERVE	145	CALLERY PEAR	5	PRESERVE	245	CALLERY PEAR	5	PRESERVE	345	PECAN	6	PRESERVE				
46	ELM	4	PRESERVE	146	CALLERY PEAR	5	PRESERVE	246	CALLERY PEAR	7	PRESERVE	346	PECAN	10	PRESERVE				
47	PECAN	10	PRESERVE	147	CALLERY PEAR	4	PRESERVE	247	PECAN	15	PRESERVE	347	PECAN	14	PRESERVE				
48	PECAN	10	PRESERVE	148	PECAN	20	PRESERVE	248	CALLERY PEAR	8	PRESERVE	348	CEDAR	6	PRESERVE				
49	PECAN	10	PRESERVE	149	CALLERY PEAR	10	PRESERVE	249	CALLERY PEAR	4	PRESERVE	349	CEDAR	5	PRESERVE				
50	PECAN	8	PRESERVE	150	CALLERY PEAR	8	PRESERVE	250	CALLERY PEAR	4	PRESERVE	350	PECAN	10	PRESERVE				
51	PECAN	6	PRESERVE	151	CALLERY PEAR	8	REMOVE	251	CALLERY PEAR	5	PRESERVE	351	PECAN	12	PRESERVE				
52	PECAN	6	PRESERVE	152	HACKBERRY	8	REMOVE	252	CALLERY PEAR	5	PRESERVE	352	CALLERY PEAR	8	PRESERVE				
53	PECAN	6	PRESERVE	153	CALLERY PEAR	8	REMOVE	253	PECAN	4	PRESERVE	353	CALLERY PEAR	3	PRESERVE				
54	PECAN	6	PRESERVE	154	CALLERY PEAR	8	REMOVE	254	PECAN	4	PRESERVE	354	PECAN	8	PRESERVE				
55	LIVE OAK	4	PRESERVE	155	CALLERY PEAR	4	REMOVE	255	CALLERY PEAR	6	PRESERVE	355	COTTONWOOD	12	PRESERVE				
56	SWEET CHESTNUT	4	PRESERVE	156	CALLERY PEAR	4	REMOVE	256	CALLERY PEAR	6	PRESERVE	356	CALLERY PEAR	6	PRESERVE				
57	PECAN	8	PRESERVE	157	CALLERY PEAR	10	REMOVE	257	CALLERY PEAR	6	PRESERVE	357	DOUBLE CALLERY PEAR	6	PRESERVE				
58	PECAN	12	PRESERVE	158	HACKBERRY	6	REMOVE	258	CALLERY PEAR	8	PRESERVE	358	DOUBLE CALLERY PEAR	6	PRESERVE				
59	PECAN	14	PRESERVE	159	CALLERY PEAR	14	PRESERVE	259	COTTONWOOD	13	PRESERVE	359	COTTONWOOD	14	PRESERVE				
60	CALLERY PEAR	4	PRESERVE	160	CALLERY PEAR	10	PRESERVE	260	COTTONWOOD	14	PRESERVE	360	CALLERY PEAR	8	PRESERVE				
61	CALLERY PEAR	4	PRESERVE	161	CALLERY PEAR	8	PRESERVE	261	CALLERY PEAR	8	PRESERVE	361	COTTONWOOD	8	PRESERVE				
62	CALLERY PEAR	4	PRESERVE	162	CALLERY PEAR	4	PRESERVE	262	PECAN	3	PRESERVE	362	DOUBLE CALLERY PEAR	8	PRESERVE				
63	CALLERY PEAR	4	PRESERVE	163	COTTONWOOD	18	PRESERVE	263	CALLERY PEAR	6	PRESERVE	363	DOUBLE CALLERY PEAR	4	PRESERVE				
64	CALLERY PEAR	5	PRESERVE	164	HACKBERRY	4	PRESERVE	264	RED OAK	4	PRESERVE	364	CALLERY PEAR	3	PRESERVE				
65	CALLERY PEAR	4	PRESERVE	165	CALLERY PEAR	6	REMOVE	265	RED OAK	4	PRESERVE	365	PECAN	6	PRESERVE				
66	CALLERY PEAR	6	PRESERVE	166	CALLERY PEAR	8	REMOVE	266	CALLERY PEAR	6	PRESERVE	366	PECAN	8	PRESERVE				
67	CALLERY PEAR	10	PRESERVE	167	CALLERY PEAR	4	REMOVE	267	CALLERY PEAR	6	PRESERVE	367	DOUBLE PECAN	8	PRESERVE				
68	CALLERY PEAR	4	PRESERVE	168	CALLERY PEAR	6	REMOVE	268	CALLERY PEAR	6	PRESERVE	368	PECAN	8	PRESERVE				
69	CALLERY PEAR	6	PRESERVE	169	CALLERY PEAR	9	REMOVE	269	CALLERY PEAR	5	PRESERVE	369	PECAN	8	PRESERVE				
70	CALLERY PEAR	6	PRESERVE	170	HACKBERRY	10	REMOVE	270	PECAN	14	PRESERVE	370	PECAN	10	PRESERVE				
71	CALLERY PEAR	4	PRESERVE	171	CALLERY PEAR	8	REMOVE	271	CEDAR	8	PRESERVE	371	CALLERY PEAR	6	PRESERVE				
72	COTTONWOOD	14	PRESERVE	172	CALLERY PEAR	5	REMOVE	272	CALLERY PEAR	4	PRESERVE	372	DOUBLE HACKBERRY	6	PRESERVE				
73	CALLERY PEAR	4	PRESERVE	173	CEDAR	8	REMOVE	273	CALLERY PEAR	7	PRESERVE	373	CALLERY PEAR	3	PRESERVE				
74	PECAN	6	PRESERVE	174	CALLERY PEAR	7	REMOVE	274	CALLERY PEAR	5	PRESERVE	374	CALLERY PEAR	4	PRESERVE				
75	CALLERY PEAR	10	PRESERVE	175	HACKBERRY	12	REMOVE	275	CALLERY PEAR	6	PRESERVE	375	CALLERY PEAR	4	PRESERVE				
76	CALLERY PEAR	14	REMOVE	176	CALLERY PEAR	6	REMOVE	276	CALLERY PEAR	4	PRESERVE	376	DOUBLE PECAN	9	PRESERVE				
77	ELM	12	PRESERVE	177	CALLERY PEAR	6	REMOVE	277	CALLERY PEAR	4	PRESERVE	377	PECAN	10	PRESERVE				
78	CALLERY PEAR	4	PRESERVE	178	CALLERY PEAR	3	REMOVE	278	POST OAK	7	PRESERVE	378	CALLERY PEAR	4	PRESERVE				
79	CALLERY PEAR	8	PRESERVE	179	CALLERY PEAR	4	REMOVE	279	CALLERY PEAR	8	PRESERVE	379	CALLERY PEAR	8	PRESERVE				
80	CALLERY PEAR	4	PRESERVE	180	HACKBERRY	4	REMOVE	280	PECAN	10	PRESERVE	380	DOUBLE PECAN	10	PRESERVE				
81	CALLERY PEAR	4	PRESERVE	181	HACKBERRY	16	REMOVE	281	PECAN	8	PRESERVE	381	PERSIMMON	3	PRESERVE				
82	CALLERY PEAR	4	PRESERVE	182	HACKBERRY	10	REMOVE	282	PECAN	10	PRESERVE	382	PERSIMMON	3	PRESERVE				
83	COTTONWOOD	18	PRESERVE	183	COTTONWOOD	32	REMOVE	283	PECAN	12	PRESERVE	383	PERSIMMON	3	PRESERVE				
84	PECAN	10	PRESERVE	184	CALLERY PEAR	4	REMOVE	284	PECAN	16	PRESERVE	384	PERSIMMON	3	PRESERVE				
85	CALLERY PEAR	4	PRESERVE	185	HACKBERRY	10	REMOVE	285	PECAN	16	PRESERVE	385	COTTONWOOD	10	PRESERVE				
86	CALLERY PEAR	4	PRESERVE	186	HACKBERRY	8	REMOVE</												

CONTACTS & PROPERTY INFORMATION

OWNER:
STEPHENVILLE ISD
(254)-968-7990

LANDSCAPE ARCHITECT:
PARKHILL
LONDON BELL
(972)-987-1670
lgbell@parkhill.com

ENGINEER:
PARKHILL
BEN SANCHEZ
(972)-987-1670
bsanchez@parkhill.com

SURVEYOR:
PRICE SURVEYING
MATTHEW PRICE
(254)-965-5489
matthew@pricesurveying.com

PROPERTY INFORMATION:
S2600 CITY ADDITION, BLOCK 156, LOT 7 (PT OF)
42.93 AC
CITY OF STEPHENVILLE

GENERAL NOTES

- A. REFER TO SHEET LP107 FOR PLANTING NOTES AND SCHEDULES.
- B. REFER TO SHEET L-501 FOR FENCING DETAILS.
- C. REFER TO SHEET L-502 FOR PLANTING DETAILS.

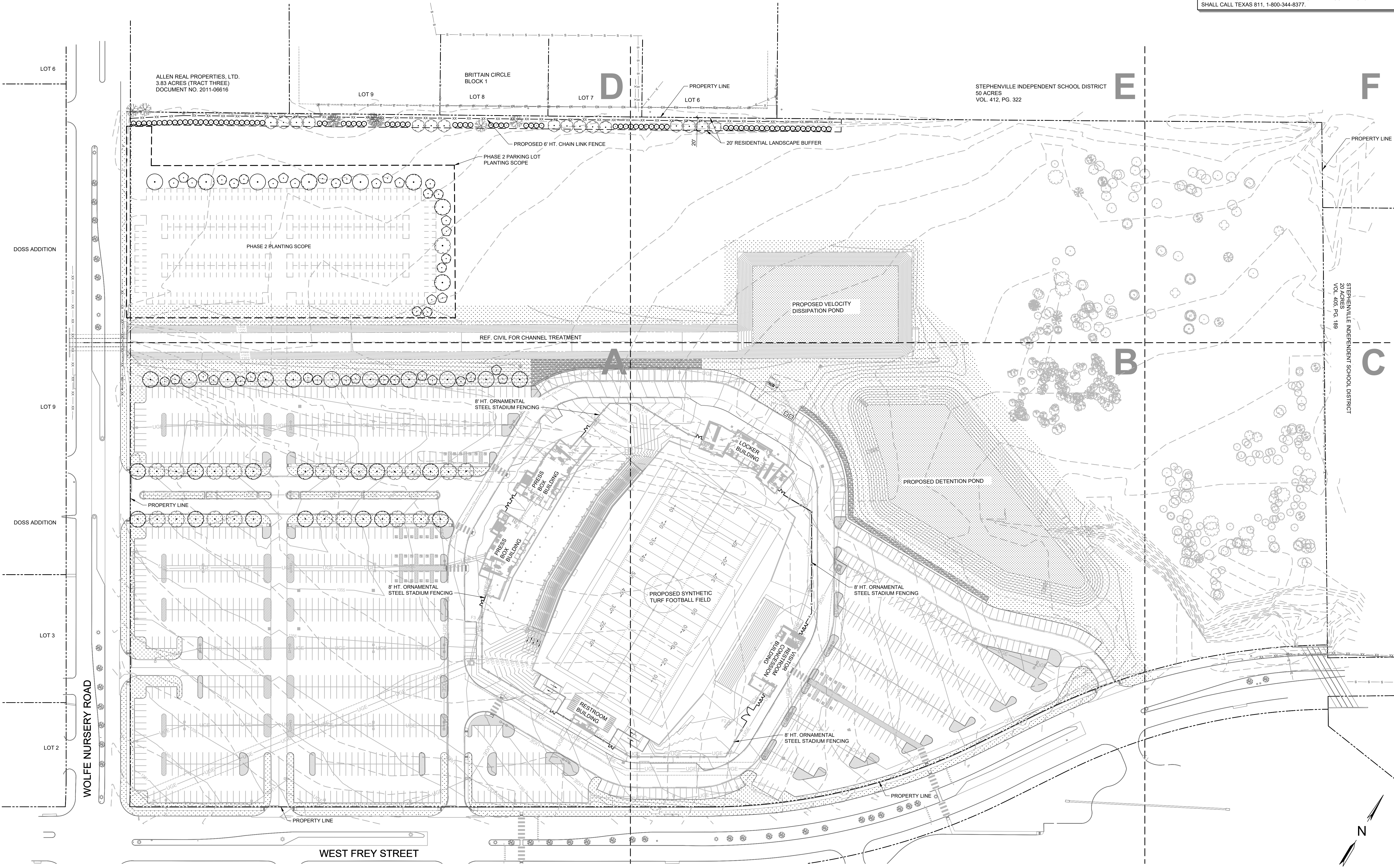
SITE LANDSCAPE CREDITS

TOTAL TREES TO BE REMOVED 48 TREES (370 CALIPER INCHES)
3"-5" CALIPER TREES PRESERVED 115 TREES (23,000 SF LANDSCAPE CREDITS)
6"+ CALIPER TREES PRESERVED 244 TREES (195,200 SF LANDSCAPE CREDITS)
TOTAL LANDSCAPE CREDITS 389 TREES (218,200 SF LANDSCAPE CREDITS)

NOTE ONLY TREES WITHIN LOT LISTED ABOVE

CITY OF STEPHENVILLE LANDSCAPE ORDINANCE CALCULATIONS FOR STEPHENVILLE ISD STADIUM					
ORD. REF.	DESCRIPTION	REQUIRED	CREDITS	PROVIDED PHASE 1	PROVIDED PHASE 2
SEC 154.13.C.1	Required Landscaped Area	SITE BOUNDARY = 1,869,896.81 S.F. REQUIRED: 15% = 280,485 S.F.	218,200 S.F. (REF. SITE LANDSCAPE TABLE)	338,278 S.F. PROVIDED	26,132 S.F. SOFT PROVIDED
SEC 154.13.C.2	Required Tree Planting	63 CANOPY TREES, 126 ORNAMENTAL TREES: (62,285 S.F. / 1,000 S.F.)	218,200 S.F. (REF. SITE LANDSCAPE TABLE)	59 CANOPY TREES 100 ORNAMENTAL TREES	9 CANOPY TREES 26 ORNAMENTAL TREES
13.G ADDITIONAL REQUIREMENTS ADJACENT TO RESIDENTIAL					
SEC 154.13.G.1	20-foot wide landscape buffer against Residential Zoning	1,106 LINEAR FEET AT 20' WIDE = 22,120 S.F. BUFFER / 1,000 S.F. = 23 CANOPY TREES 46 ORNAMENTAL TREES	N/A	23 CANOPY TREES, 83 NON CANOPY TREES (LIVING SCREEN)	N/A
PARKING AREA REQUIREMENTS					
SEC 154.13.I.2	Parking Lot Trees (PHASE 1)	1 TREE PER 12 SPACES 1218 SPACES / 12 = 102 TREES	N/A	PER CODE DEVIATION 3 OF PLANNED DEVELOPMENT, PARKING LOT TREES WILL BE PLACED OUTSIDE OF PARKING AREAS.	N/A
SEC 154.13.I.2	Parking Lot Trees (PHASE 2)	1 TREE PER 12 SPACES 239 SPACES / 12 = 20 TREES	N/A	N/A	PER CODE DEVIATION 3 OF PLANNED DEVELOPMENT, PARKING LOT TREES WILL BE PLACED OUTSIDE OF PARKING AREAS.

EXISTING UTILITIES
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Stephenville ISD Stadium
Honeybees & Yellowjackets



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CLIENT
Stephenville ISD
N Frey & N Wolfe Nursery Rd.
Stephenville, TX 76401

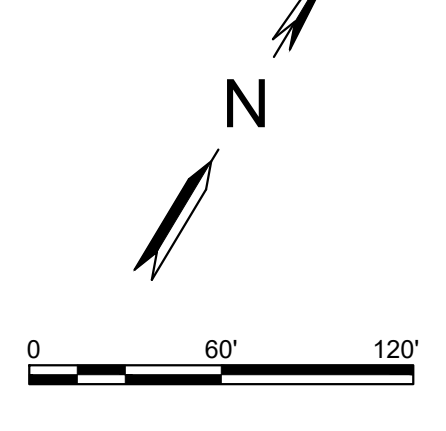
PROJECT NO.
40108.22

D	E	F
A	B	C

#	DATE	DESCRIPTION
3	09/15/2023	Development Plan Re-Submittal
2	09/08/2023	Development Plan Re-Submittal
1	08/25/2023	Development Plan Submittal

Overall Planting Plan
LP100

A1 OVERALL PLANTING PLAN
1" = 60'



A:\2022\40108.22\03_DWG\010_DWG\010_SHEETS\UTILITY PACKAGE\LP100-40108.DWG, 9/14/2023 12:38 PM, smooey

MATCH LINE (SEE SHEET LP104)

REF. CIVIL FOR CHANNEL TREATMENT

GENERAL NOTES

- A. REFER TO SHEET LP107 FOR PLANTING NOTES AND SCHEDULES.
- B. REFER TO SHEET LP100 FOR LANDSCAPE ORDINANCE CALCULATIONS.
- C. REFER TO SHEET L-502 FOR PLANTING DETAILS.



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Stephenville, TX 76401

PROJECT NO.

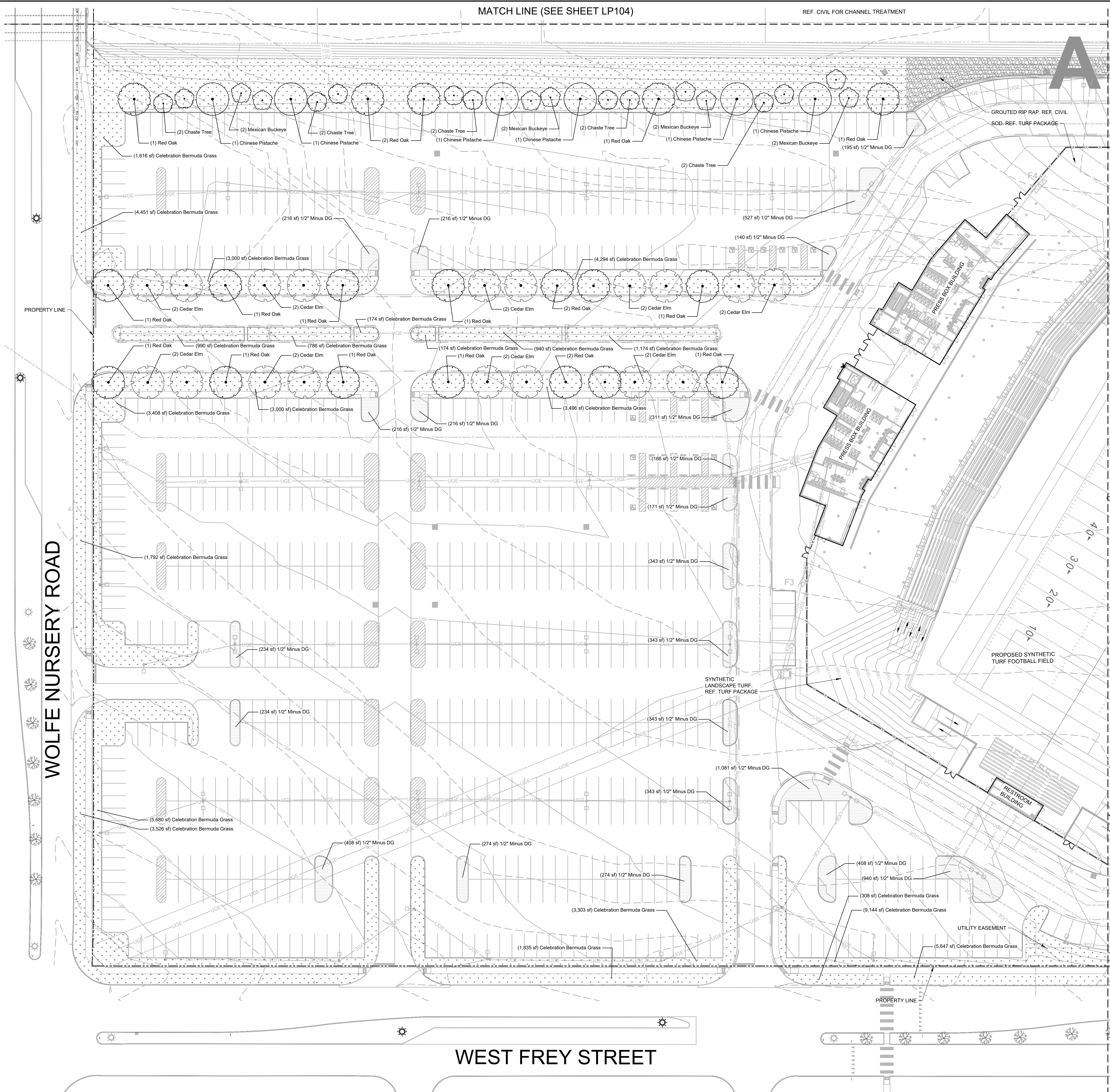
40108.22

KEY PLAN

D	E	F
A	B	C

#	DATE	DESCRIPTION
3	09/15/2023	Development Plan Re-Submittal
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Planting Plan
'Area A'
LP101



WOLFE NURSERY ROAD

WEST FREY STREET

A1 PLANTING PLAN - AREA A
1" = 30'

MATCH LINE (SEE SHEET LP102)

A:\2022\40108.22\03_DWG\060_LAND\03_SHEETS\UTILITY PACKAGE\LP101-40108.DWG, 9/14/2023, 12:38 PM, smooch



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Stephenville, TX 76401

PROJECT NO.

40108.22

KEY PLAN

D	E	F
A	B	C

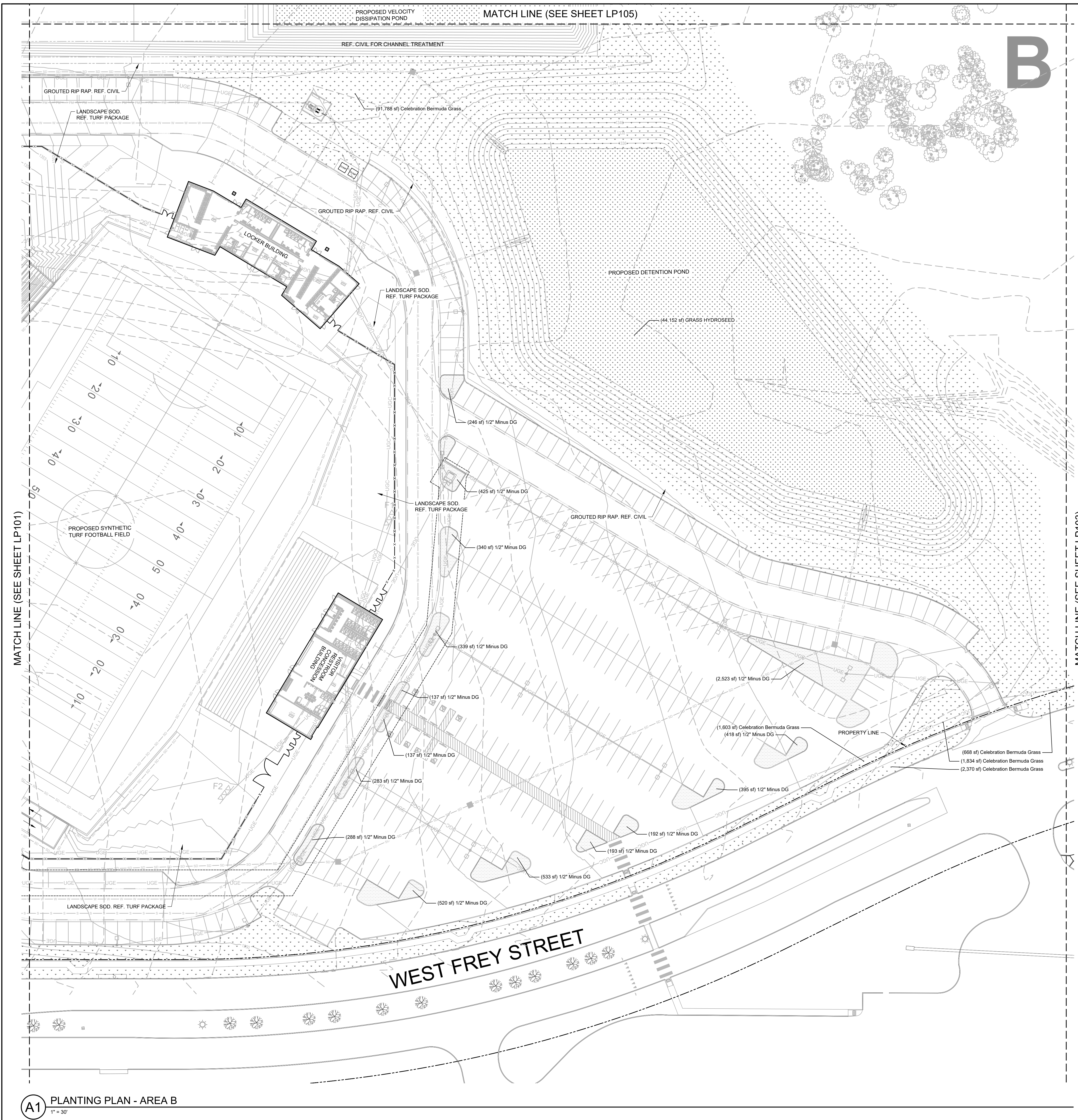
#	DATE	DESCRIPTION
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EXISTING UTILITIES

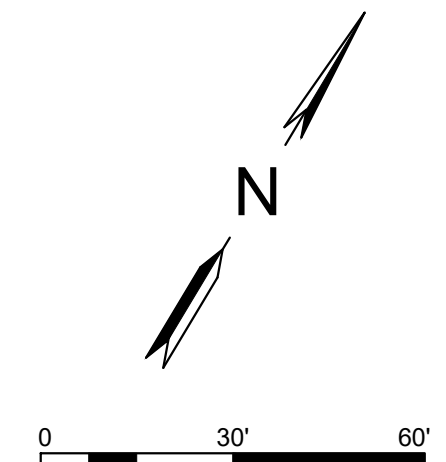
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MATCH LINE (SEE SHEET LP101)

MATCH LINE (SEE SHEET LP103)

A1 PLANTING PLAN - AREA B
1" = 30'



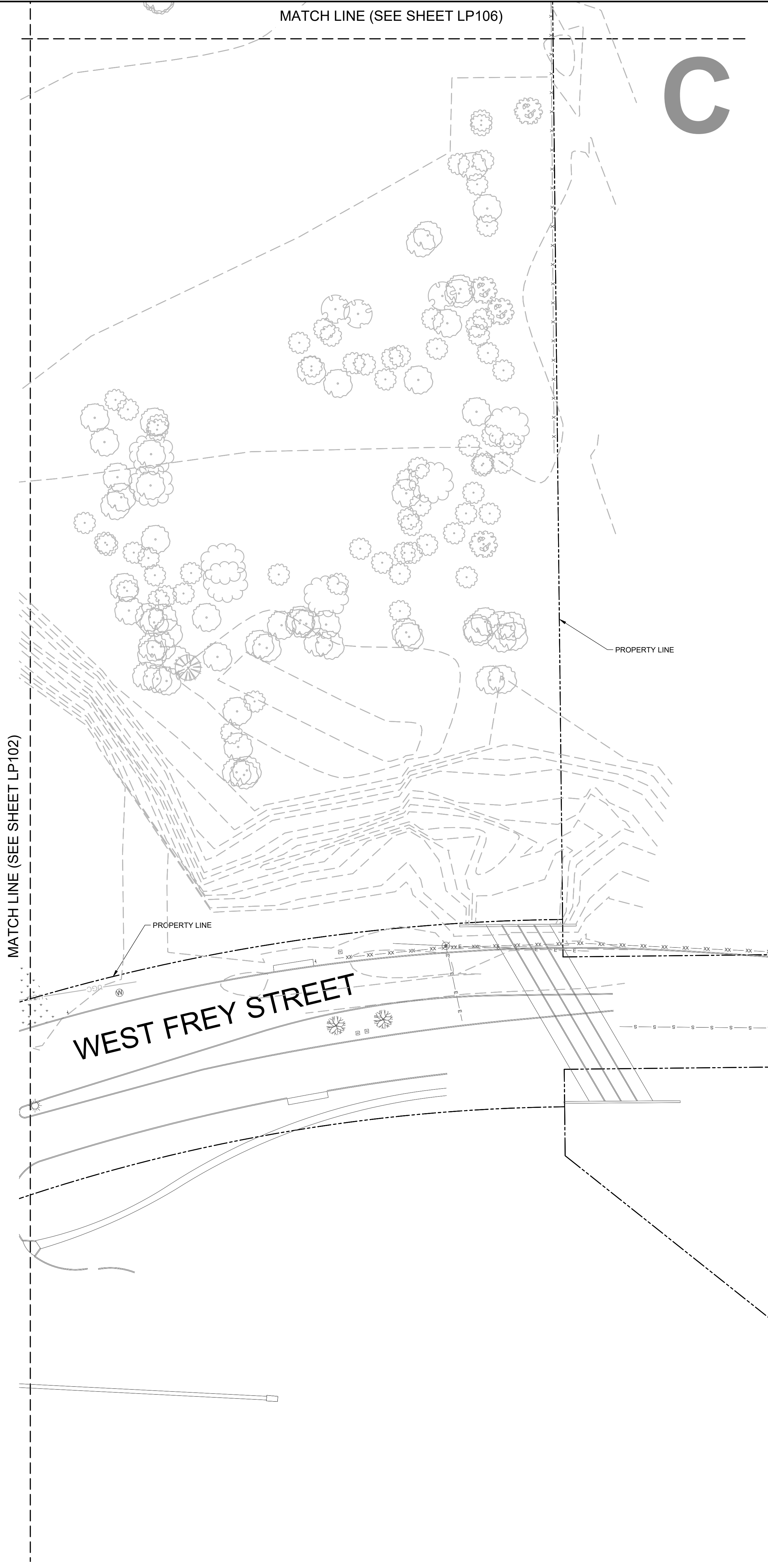
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A:\2022\40108\22103_DSG\01_DWG\060_LAND\06_SHEETS\UTILITY PACKAGE\LP103-40108.DWG, 9/14/2023 12:40 PM, smooody

MATCH LINE (SEE SHEET LP106)

C

MATCH LINE (SEE SHEET LP102)



GENERAL NOTES

- A. REFER TO SHEET LP107 FOR PLANTING NOTES AND SCHEDULES.
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PROJECT NO.

40108.22

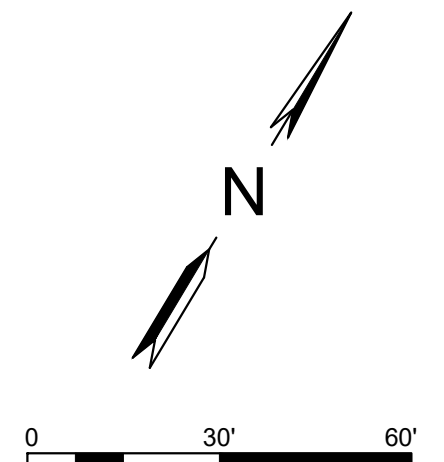
KEY PLAN

D	E	F
A	B	C

3	09/15/2023	Development Plan Re-Submittal
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1	08/25/2023	Development Plan Submittal

DATE DESCRIPTION

A1 PLANTING PLAN - AREA C
1" = 30'



Planting Plan
'Area C'
LP103



CLIENT

Stephenville ISD

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Stephenville, TX 76401

PROJECT NO.

40108.22

KEY PLAN

D	E	F
A	B	C

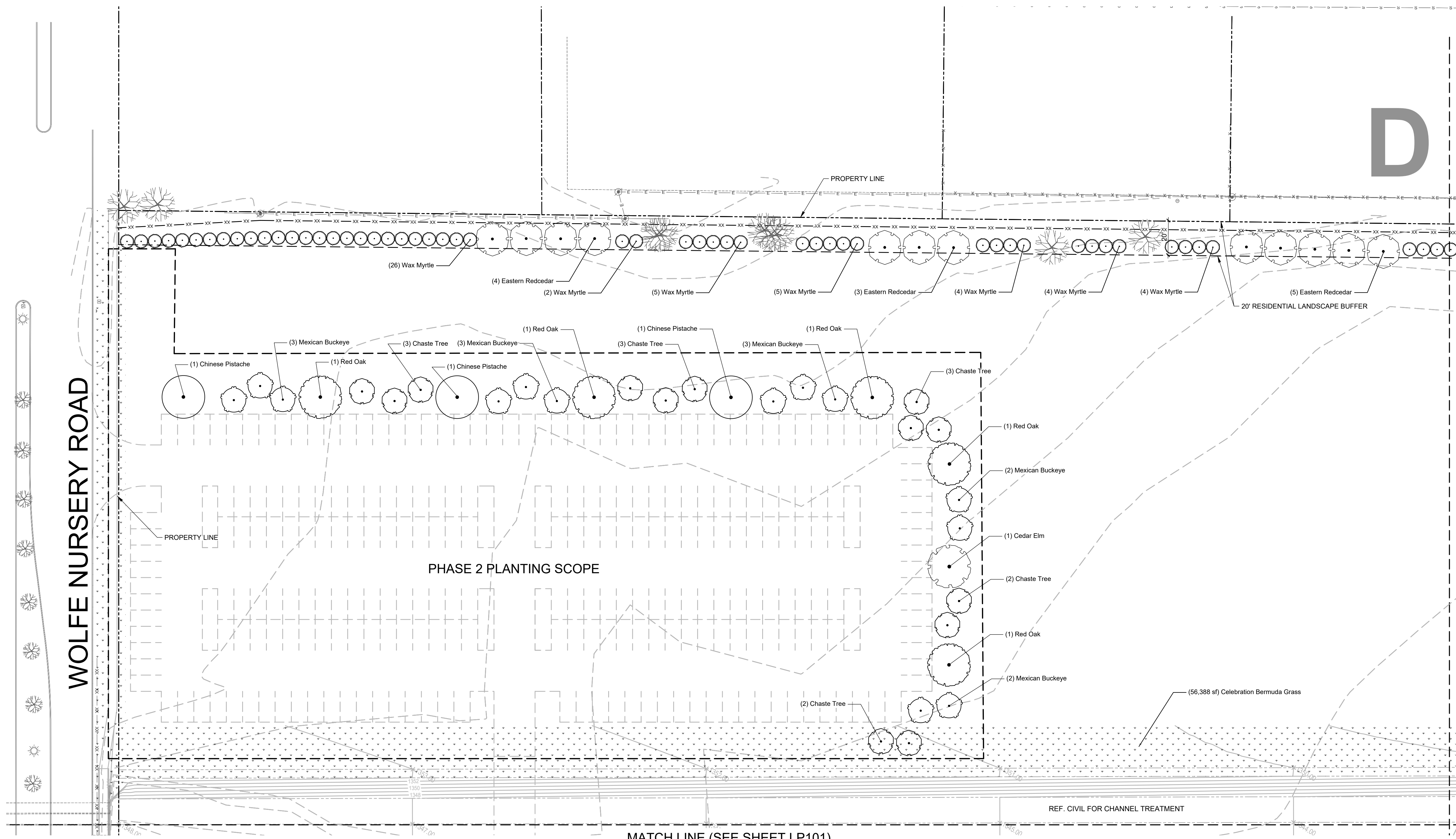
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- B. REFER TO SHEET LP100 FOR LANDSCAPE ORDINANCE CALCULATIONS.
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A1 PLANTING PLAN - AREA D
1" = 30'

MATCH LINE (SEE SHEET LP105)

MATCH LINE (SEE SHEET LP101)



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PROJECT NO.

40108.22

KEY PLAN

D	E	F
A	B	C

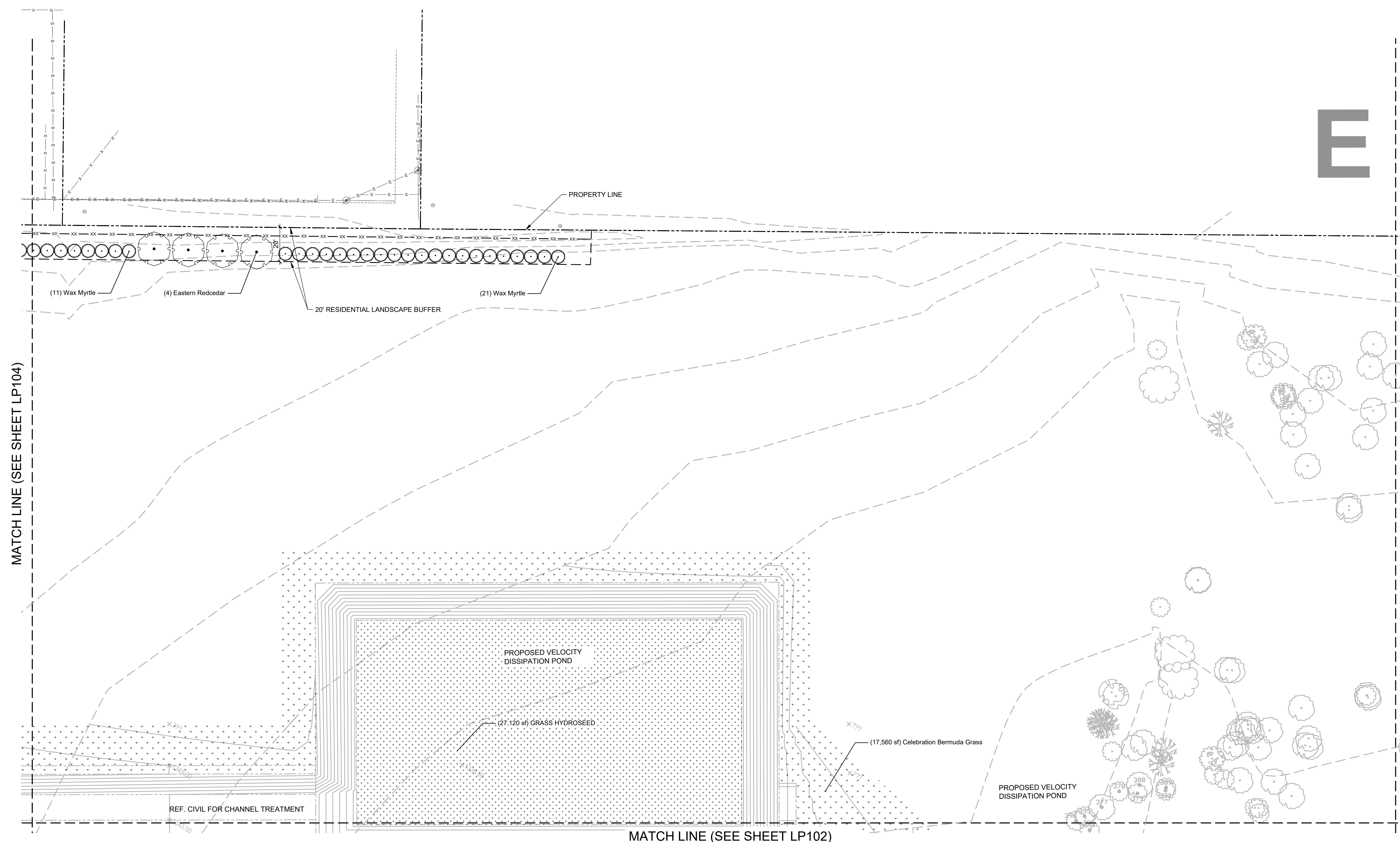
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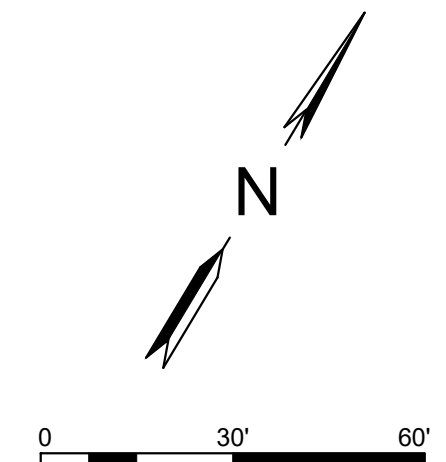


MATCH LINE (SEE SHEET LP104)

MATCH LINE (SEE SHEET LP106)

MATCH LINE (SEE SHEET LP102)

A1 PLANTING PLAN - AREA E
1" = 30'



A:\2022\08\28\2023_DSGN01_DWG\060_LAND03_SHEETS\UTILITY PACKAGE\LP105-40108.DWG, 9/14/2023 12:41 PM, ameady



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Stephenville, TX 76401

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KEY PLAN

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1	08/25/2023	Development Plan Submittal

Planting Plan
'Area F'
LP106

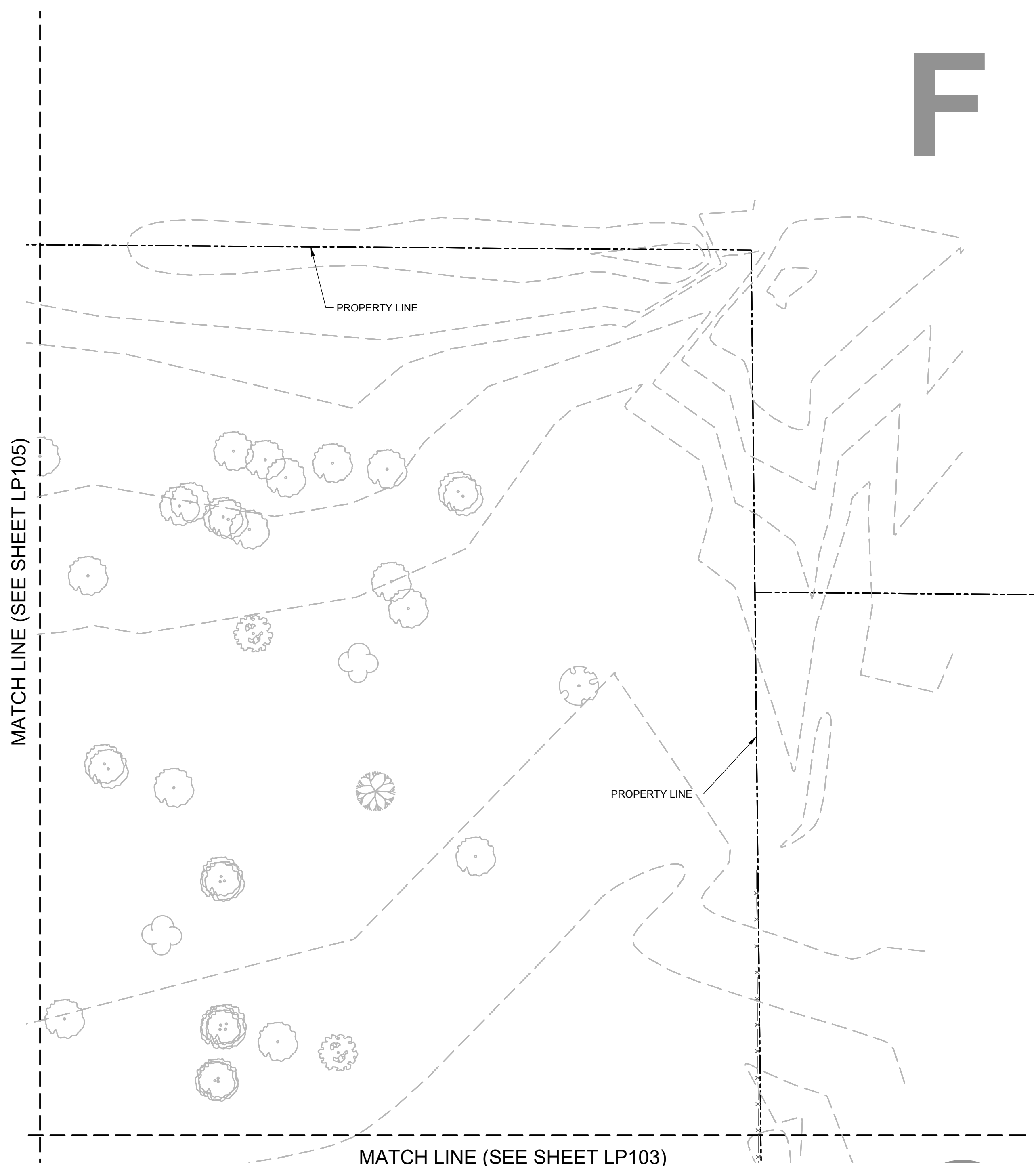
GENERAL NOTES

- A. REFER TO SHEET LP107 FOR PLANTING NOTES AND SCHEDULES.
- B. REFER TO SHEET LP100 FOR LANDSCAPE ORDINANCE CALCULATIONS.
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F

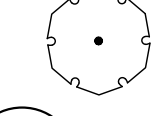

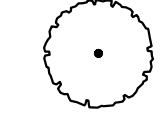
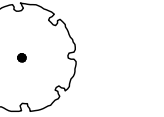
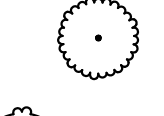

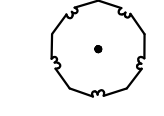
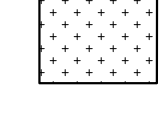
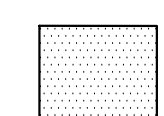
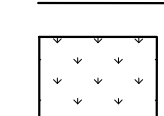


A1 PLANTING PLAN - AREA F
1" = 30'



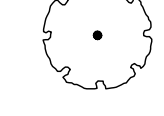


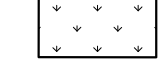
PLANTING GENERAL NOTES

- A. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE CITY OF STEPHENVILLE STANDARDS
- B. THE LANDSCAPE CONTRACTOR SHALL REFER TO THE CONTRACT AND SPECIFICATIONS FOR REQUIREMENTS NOT LISTED HEREIN.
- C. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO STARTING WORK.
- D. THE CONTRACTOR SHALL SUPPLY ALL PLANT MATERIALS IN QUANTITIES SUFFICIENT TO COMPLETE THE PLANTING PLAN SHOWN ON ALL DRAWINGS. PLANT COUNTS AND SQUARE FOOTAGES ARE PROVIDED AS A COURTESY ONLY.
- E. ALL PLANT MATERIAL SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARD FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN OR EQUIVALENT.
- F. IN THE CASE OF A DISCREPANCY BETWEEN THE CONTAINER SIZE CALLED OUT IN PLANT LIST AND THE CALIPER AND HEIGHT OF PLANT MATERIAL, THE SPECIFIED TREE MUST MEET THE CALIPER AND HEIGHT REQUIREMENTS SPECIFIED, EVEN IF THE LARGER CONTAINER SIZE IS REQUIRED TO MEET THESE SPECIFICATIONS AT NO ADDITIONAL COST TO THE OWNER.
- G. ALL PLANTS TO BE GROWN AS SPECIFIED. NO CONTAINER GROWN STOCK WILL BE ACCEPTED IF IT IS ROOT BOUND.
- H. WITH CONTAINER GROWN STOCK, THE CONTAINER SHALL BE REMOVED AND THE PLANT BALL SHALL BE CUT THROUGH THE SURFACE IN TWO VERTICAL LOCATIONS.
- I. LANDSCAPE CONTRACTOR SHALL LOCATE THE SOURCE OF AND SELECT ALL PLANTS FOR APPROVAL BY THE PROJECT LANDSCAPE ARCHITECT.
- J. ALL PLANT MATERIALS SHALL BE APPROVED PRIOR TO DELIVERY AT THE NURSERIES OR SUPPLIERS BY THE PROJECT LANDSCAPE ARCHITECT.
- K. AT THE OPTION OF THE LANDSCAPE ARCHITECT, PHOTOS OF ALL PLANT MATERIAL SHOWING CONTAINER SIZE, HEIGHT AND CALIPER CAN BE SUBMITTED FOR APPROVAL.
- L. ALL PLANTS TAGGED AS APPROVED AT NURSERY OR SUPPLIER SHALL BEAR THE SAME TAG WHEN DELIVERED ON SITE.
- M. THE RIGHT TO REJECT PLANT MATERIALS DELIVERED TO THE SITE THAT DO NOT BEAR APPROVAL TAGS IS RESERVED BY THE PROJECT LANDSCAPE ARCHITECT.
- N. IN AREAS WHERE PAVING SUBGRADES AND BUILDING PADS EXTEND INTO PLANT BED AREAS, 6 INCH HOLES SHALL BE DRILLED EVERY 3 FEET AND FILLED WITH 1 INCH DIAMETER GRAVEL TO PROVIDE PERCOLATION AND DRAINAGE FOR THE PLANTING BED. HOLES SHALL BE DRILLED THROUGH IMPROVED SUBGRADES INTO EXISTING SITE SOILS BUT NO DEEPER THAN FOUR FEET.
- O. ALL PLANTING BEDS TO RECEIVE 2 INCHES OF BACK TO EARTH COMPOST PER SQUARE FOOT AND 1 POUND OF A 4(N)-1(P)-2(K) RATIO FERTILIZER PER 100 SQUARE FEET. BOTH MATERIALS SHALL BE INCORPORATED INTO THE SOIL TO A DEPTH OF 12 INCHES.
- P. ALL FINAL PLANTING BED GRADES IN AREAS WHERE ORGANIC AND/OR INORGANIC MULCH IS BEING APPLIED SHOULD BE 3 OR 4 INCHES BELOW ADJACENT HARD SURFACES ACCORDING TO MULCH DEPTH INDICATED ON PLANS.
- Q. NO PLANT SHALL BE PUT INTO THE GROUND BEFORE ROUGH GRADING IS COMPLETE AND APPROVED BY THE PROJECT LANDSCAPE ARCHITECT.
- R. ALL PLANTS SHALL BEAR THE SAME RELATIONSHIP TO FINISHED GRADE AS THE PLANT'S ORIGINAL GRADE BEFORE DIGGING OR AS ESTABLISHED IN CONTAINER.
- S. ALL PLANTS SHALL BE INSTALLED AS PER DETAILS.
- T. ALL PLANTS SHALL BE WATERED THOROUGHLY TWICE DURING THE FIRST 24 HOUR PERIOD AFTER PLANTING. ALL PLANTS SHALL THEN BE WATERED WEEKLY OR MORE OFTEN AS NEEDED DURING THE FIRST GROWING SEASON.
- U. ALL PLANTING BEDS SHALL RECEIVE ORGANIC AND/OR INORGANIC MULCH MATERIALS AS NOTED ON PLANS.
- V. THE DAY PRIOR TO PLANTING, THE LOCATION OF ALL TREES AND SHRUBS SHALL BE STAKED FOR APPROVAL BY THE LANDSCAPE ARCHITECT.
- W. THE CONTRACTOR SHALL PRUNE ALL BRANCHES 6 FEET ABOVE FINISH GRADE ON ALL DECIDUOUS TREES 12 FEET OR TALLER.
- X. AREAS TO BE FILLED WITH INORGANIC MULCHES WITH A DIAMETER LESS THAN 1/4 INCH IN SIZE SHALL BE COMPACTED TO 85% PROCTOR DENSITY BEFORE MULCH IS PLACED.
- Y. THE SITE SHALL BE FINE GRADED PRIOR TO ANY PLANT INSTALLATION. ANY AREAS DISTURBED BY PLANTING SHALL BE REGRADED AND SMOOTHED PRIOR TO GRASS PLANTING.
- Z. SOD SHALL BE USED AROUND DRAIN INLETS (5' BUFFER) AND IN AREAS WHERE THE SLOPE EXCEEDS 20% (1:5) UNLESS THE AREA IS A PLANTING BED.

PLANT SCHEDULE PHASE 1

CANOPY TREES	QTY	BOTANICAL / COMMON NAME	CONTAINER	HEIGHT	CALIPER
	16	JUNIPERUS VIRGINIANA EASTERN REDCEDAR	-	10-12 FT	3"
	6	PISTACIA CHINENSIS CHINESE PISTACHE	-	12-14 FT	3"
	19	QUERCUS RUBRA RED OAK	-	12-14 FT	3"
	18	ULMUS CRASSIFOLIA CEDAR ELM	-	12-14 FT	3"
ORNAMENTAL TREES	QTY	BOTANICAL / COMMON NAME	CONTAINER	HEIGHT	CALIPER
	82	MYRICA CERIFERA WAX MYRTLE	15 GAL.	4-6 FT	
	8	UNGNADIA SPECIOSA MEXICAN BUCKEYE	15 GAL.	4-6 FT	
	10	VITEX AGNUS-CASTUS CHASTE TREE	15 GAL.	4-6 FT	
GROUND COVERS	BOTANICAL / COMMON NAME	CONTAINER	HEIGHT	CALIPER	SPACING
	COMMON BERMUDA - AS SPECIFIED GRASS HYDROSEED	HYDROSEED			
	DECOMPOSED GRANITE 1/2" MINUS DG	4" DEPTH			
SOD/SEED	BOTANICAL / COMMON NAME	CONTAINER	HEIGHT	CALIPER	SPACING
	CYNODON DACTYLON 'CELEBRATION' CELEBRATION BERMUDA GRASS	SOLID SOD			

PLANT SCHEDULE PHASE 2

CANOPY TREES	QTY	BOTANICAL / COMMON NAME	CONTAINER	HEIGHT	CALIPER
	3	PISTACIA CHINENSIS CHINESE PISTACHE	-	12-14 FT	3"
	5	QUERCUS RUBRA RED OAK	-	12-14 FT	3"
	1	ULMUS CRASSIFOLIA CEDAR ELM	-	12-14 FT	3"
ORNAMENTAL TREES	QTY	BOTANICAL / COMMON NAME	CONTAINER	HEIGHT	CALIPER
	13	UNGNADIA SPECIOSA MEXICAN BUCKEYE	15 GAL.	4-6 FT	
	13	VITEX AGNUS-CASTUS CHASTE TREE	15 GAL.	4-6 FT	
SOD/SEED	BOTANICAL / COMMON NAME	CONTAINER	HEIGHT	CALIPER	SPACING
	CYNODON DACTYLON 'CELEBRATION' CELEBRATION BERMUDA GRASS	SOLID SOD			

A:\2022\40108\2203_DSGN01_DWG\690_LAND\03_SHEETS\UTILITY PACKAGE\LP107-40108.DWG, 9/14/2023 12:42 PM, smoady



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Parkhill.com

Stephenville ISD Stadium
Honeybees & Yellowjackets



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CLIENT
Stephenville ISD
N Frey & N Wolfe Nursery Rd.
Stephenville, TX 76401

PROJECT NO.
40108.22

KEY PLAN

#	DATE	DESCRIPTION
3	09/15/2023	Development Plan Re-Submittal
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**Planting Notes
And Schedules
LP107**



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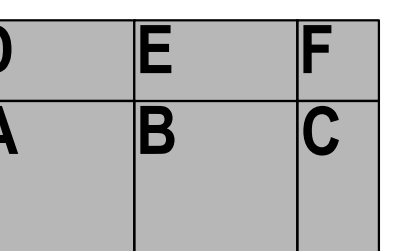
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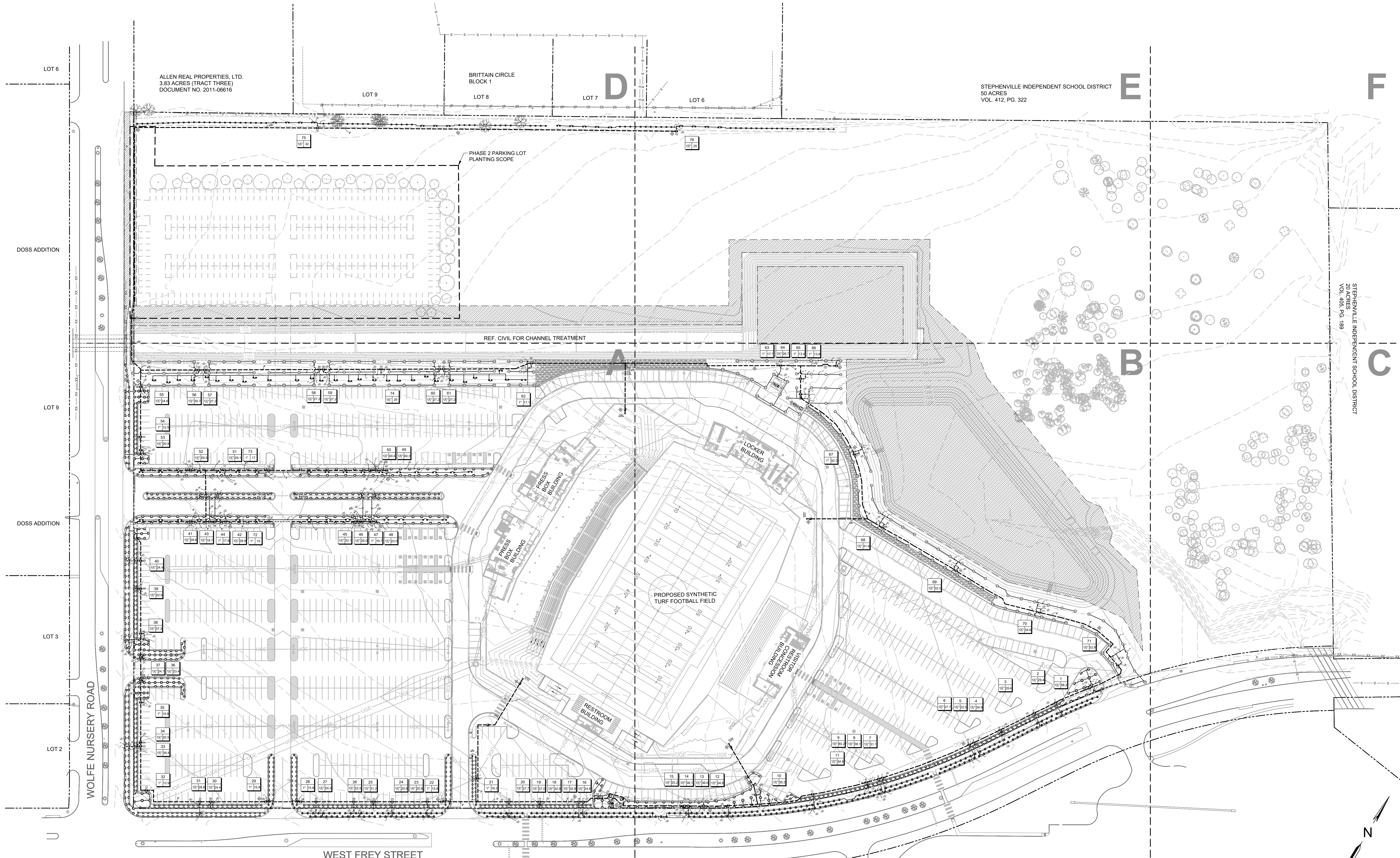
DATE DESCRIPTION

Overall Irrigation Plan
LI100

GENERAL NOTES

- A. REFER TO SHEET LP107 FOR PLANTING NOTES AND SCHEDULES.
- B. REFER TO SHEET L-501 FOR PLANTING DETAILS.

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A1 OVERALL IRRIGATION PLAN
1" = 60'

A:\2022\40108.22\03_DWG\03_SHEET\UTILITY PACKAGE\LI100-40108.DWG, 9/14/2023 12:43 PM, amody

MATCH LINE (SEE SHEET L1104)

REF. CIVIL FOR CHANNEL TREATMENT

GENERAL NOTES

- A. REFER TO SHEET LP107 FOR PLANTING NOTES AND SCHEDULES.
- B. REFER TO SHEET LP100 FOR LANDSCAPE ORDINANCE CALCULATIONS.
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PROJECT NO.

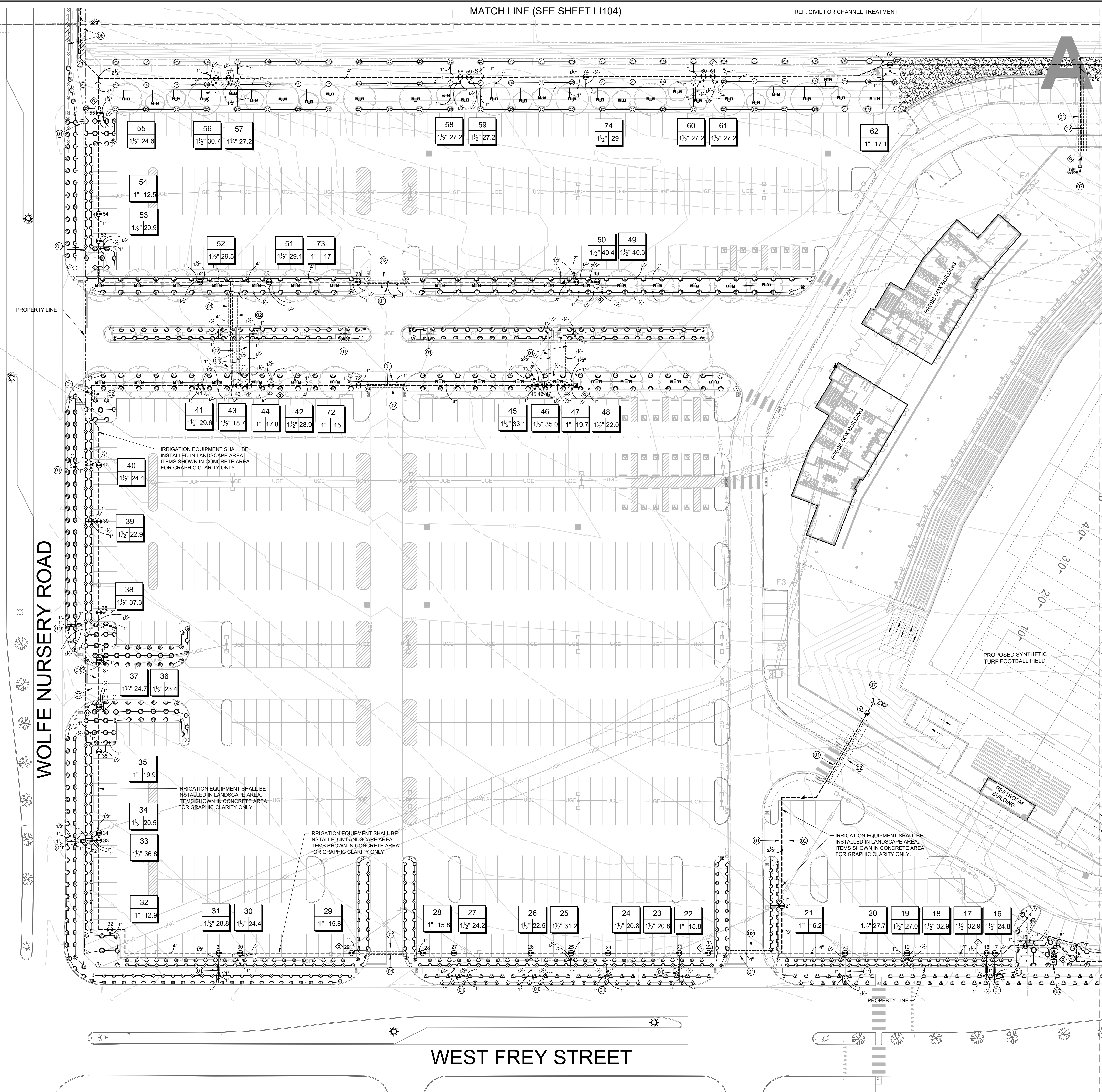
40108.22

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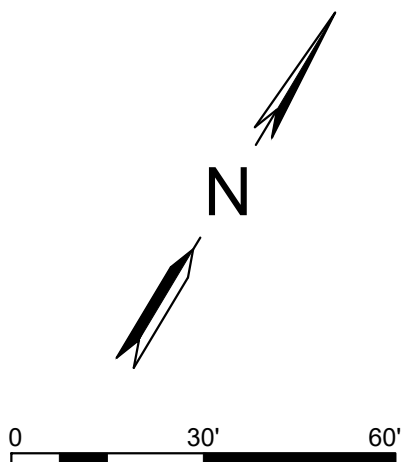
Irrigation Plan
'Area A'
L1101



WOLFE NURSERY ROAD

WEST FREY STREET

MATCH LINE (SEE SHEET L1102)



A1 IRRIGATION PLAN - AREA A
1" = 30'

A:\2022\40108.22\03_DS\G060_LAND\03_SHEET\UTILITY PACKAGE\L1101-40108.DWG, 9/14/2023 12:43 PM, amody



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MATCH LINE (SEE SHEET LI105)

REF. CIVIL FOR CHANNEL TREATMENT

63	64	65	66
1" 17.7	1 1/2" 26.7	1" 13.4	1" 13.8

67
1" 32.2

68
1 1/2" 31.6

69
1 1/2" 32.2

70
1 1/2" 34.6

71
1 1/2" 32.8

3
1 1/2" 29.4

2
1 1/2" 29.4

1
1 1/2" 38.2

6	5	4
1 1/2" 27.7	1 1/2" 22.5	1 1/2" 34.9

9	8	7
1 1/2" 40.2	1 1/2" 38.1	1 1/2" 31.1

11
1 1/2" 34.6

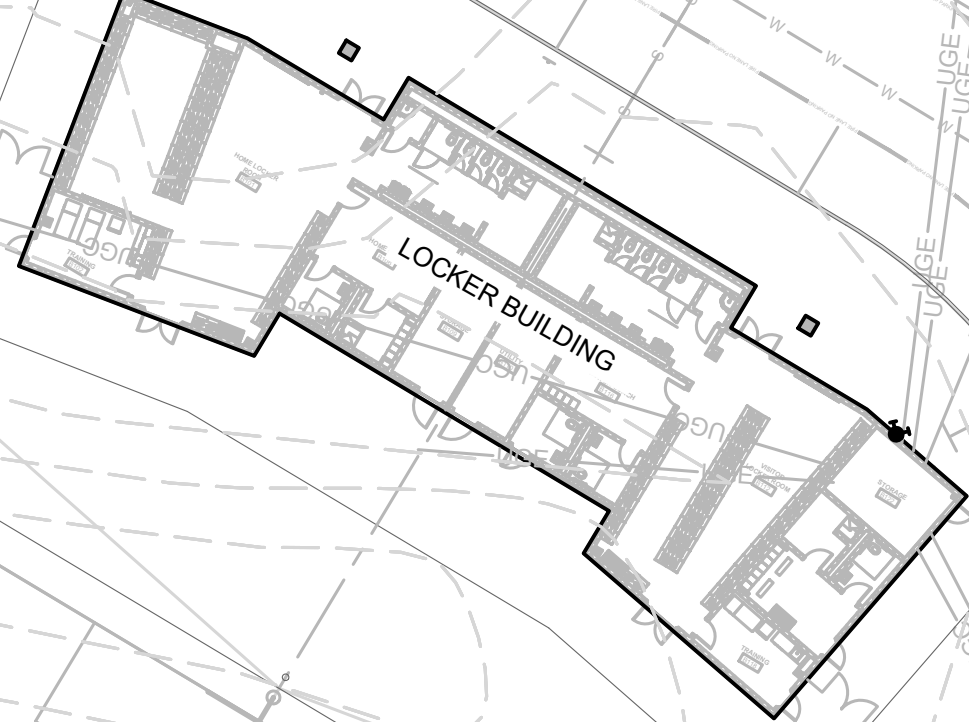
15	14	13	12
1 1/2" 25.2	1 1/2" 38.1	1 1/2" 36.6	1 1/2" 34.6

10
1 1/2" 35.2

IRRIGATION EQUIPMENT SHALL BE INSTALLED IN LANDSCAPE AREA. ITEMS SHOWN IN CONCRETE AREA FOR GRAPHIC CLARITY ONLY.

PROPERTY LINE

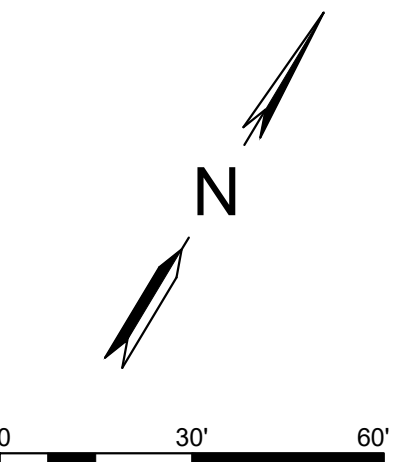
WEST FREY STREET



B

MATCH LINE (SEE SHEET LI101)

MATCH LINE (SEE SHEET LI103)



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Stephenville ISD

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PROJECT NO.

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GENERAL NOTES

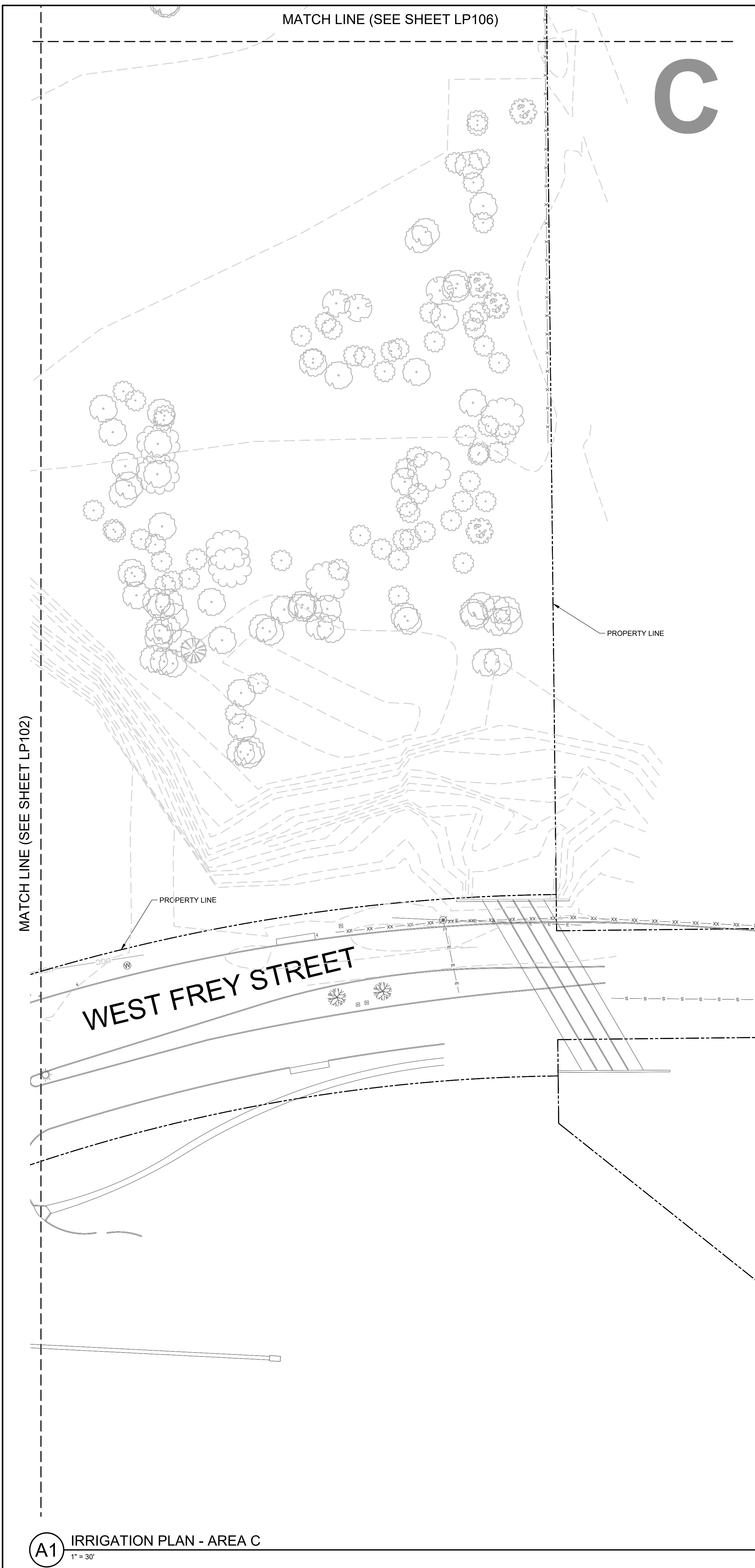
- A. REFER TO SHEET LP107 FOR PLANTING NOTES AND SCHEDULES.
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 - 7.

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A:\2022\40108.22\03_DSGN01_DWG\060_LAND\03_SHEET\UTILITY PACKAGE\LI103-40108.DWG, 9/14/2023 12:45 PM, amsoy



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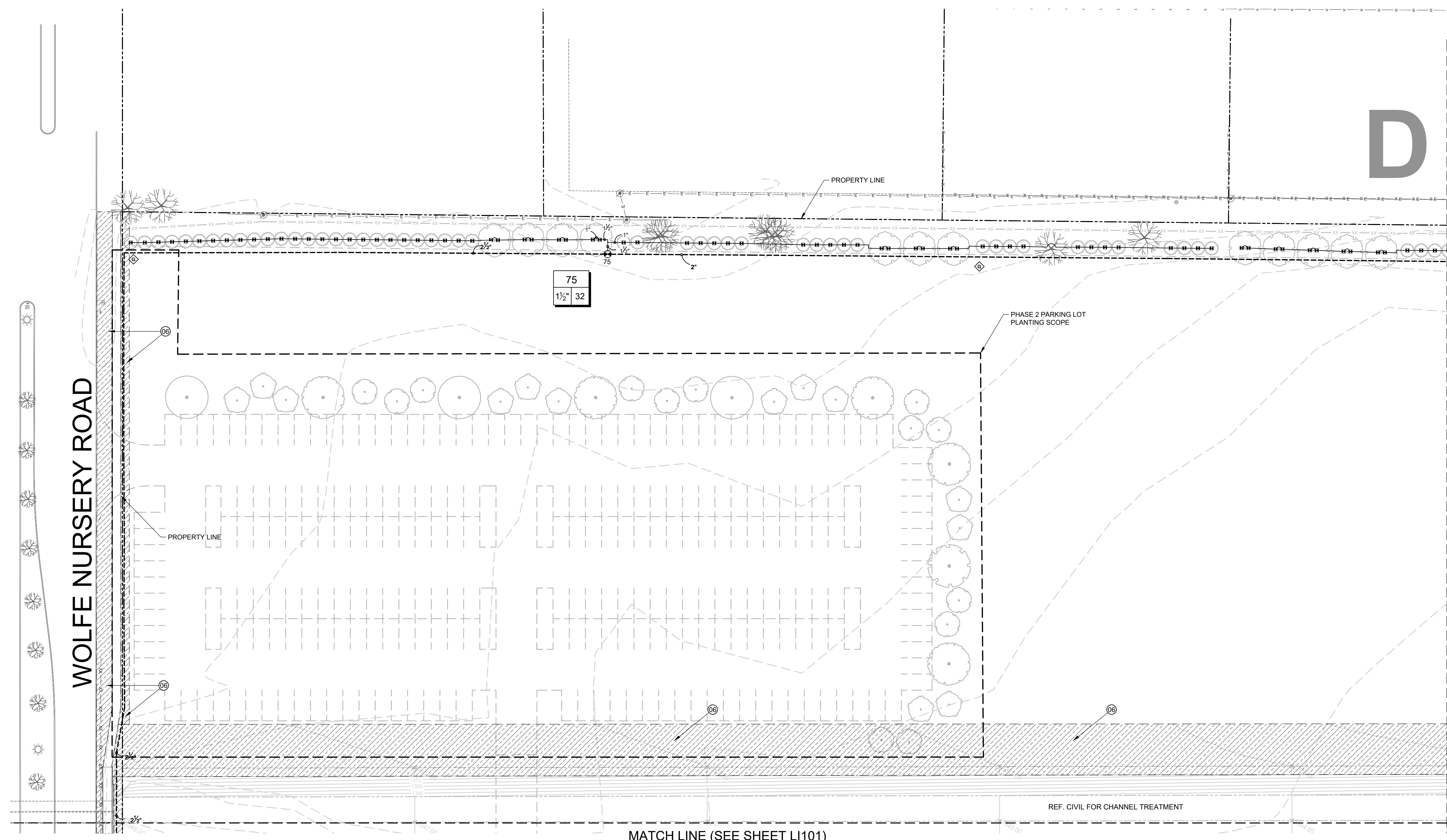
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A1 IRRIGATION PLAN - AREA D
1" = 30'

A:\2022\40108.22\03_DSGN01_DWG\060_LAND03_SHEET\UTILITY PACKAGE\LI104-40108.DWG, 9/14/2023 12:46 PM, amsoy



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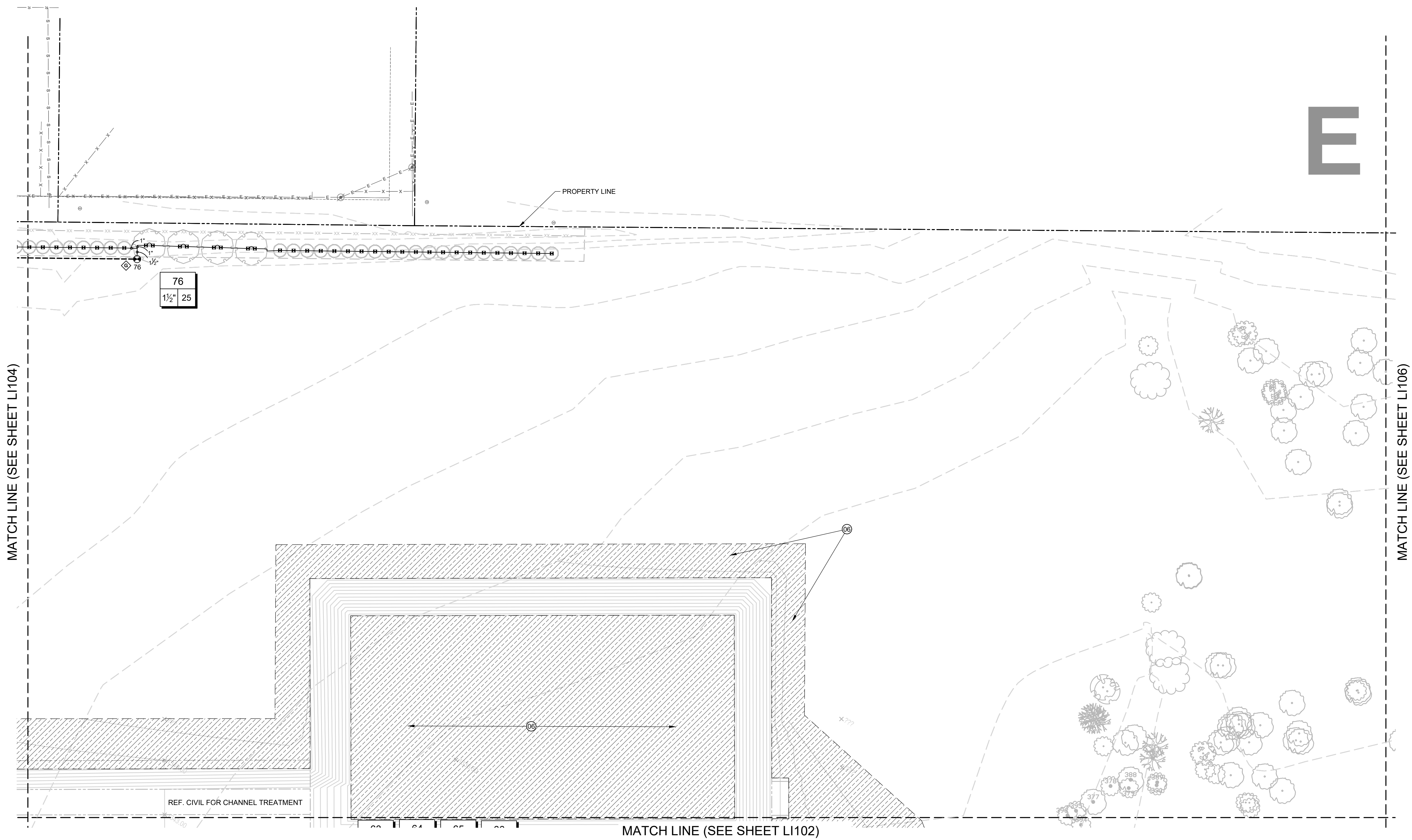
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MATCH LINE (SEE SHEET LI104)

MATCH LINE (SEE SHEET LI106)

MATCH LINE (SEE SHEET LI102)

A1 IRRIGATION PLAN - AREA E
1" = 30'



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Stephenville, TX 76401

PROJECT NO.

40108.22

KEY PLAN

D	E	F
A	B	C

#	DATE	DESCRIPTION
3	09/15/2023	Development Plan Re-Submittal
2	09/08/2023	Development Plan Re-Submittal
1	08/25/2023	Development Plan Submittal

GENERAL NOTES

- A. REFER TO SHEET LP107 FOR PLANTING NOTES AND SCHEDULES.
- B. REFER TO SHEET LP100 FOR LANDSCAPE ORDINANCE CALCULATIONS.
- C. REFER TO SHEET L-501 FOR PLANTING DETAILS.

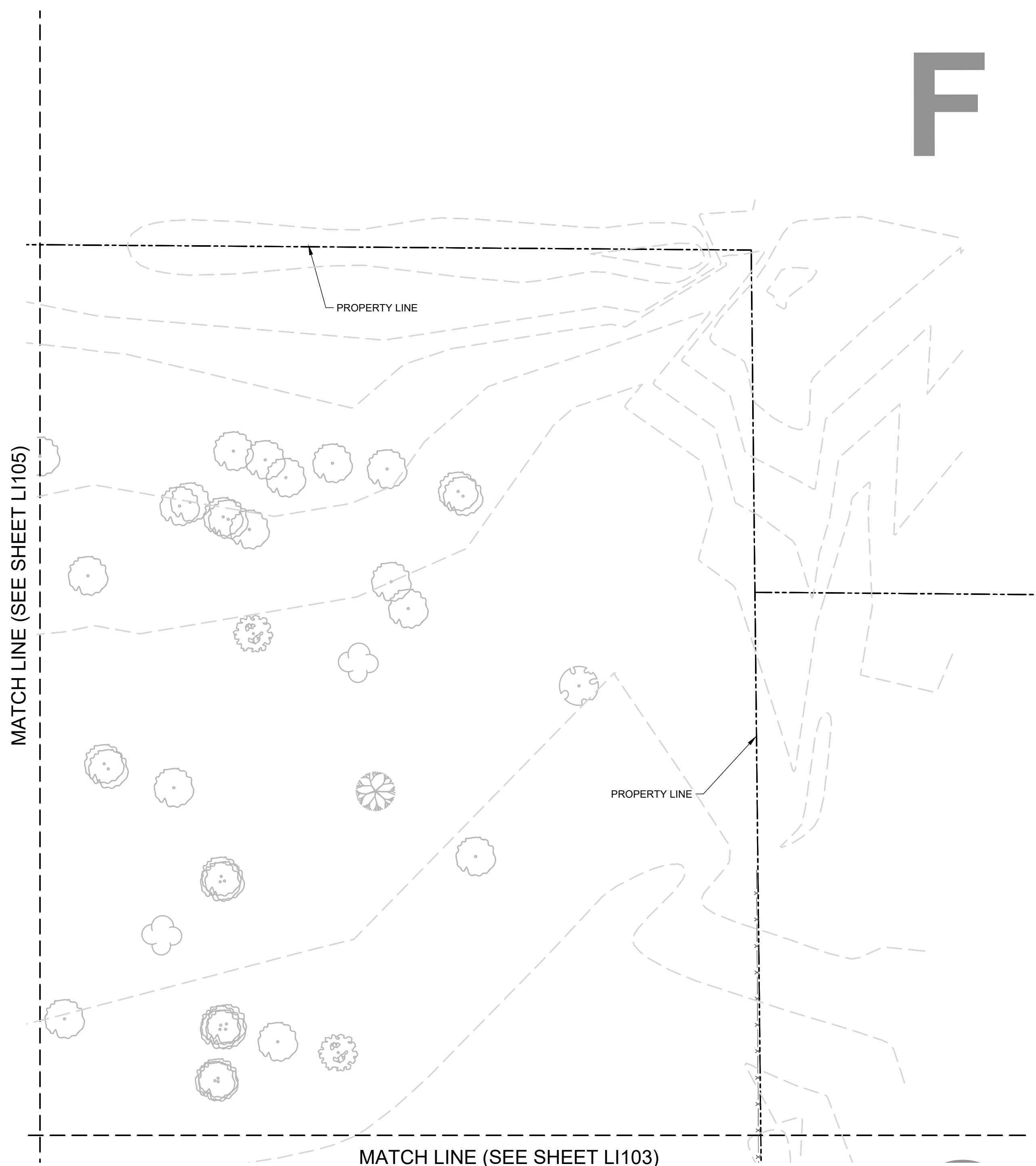
KEY NOTES

- AS INDICATED BY: (Ⓢ)
1. COORDINATE SLEEVE INSTALLATION WITH PAVING POURS. SLEEVES SHALL BE TWO TIMES THE COMBINED DIAMETER OF THE LATERALS AND MAINLINES TO BE SLEEVED. LATERAL LINES SHALL BE SLEEVED SEPARATELY FROM MAINLINE. SLEEVES SHALL BE A MINIMUM OF 18" BELOW FINISH GRADE IN PARKING/DRIVE AREAS. SLEEVES SHALL EXTEND 18" PAST HARDSCAPE AND CURB EDGES.
 2. SLEEVE FOR CONTROL WIRE ONLY.
 3. CONTROLLER IN PEDESTAL. PROVIDE ALL CONDUIT AND POWER REQUIRED FOR CONTROLLER OPERATION. REF. C1/L-503.
 4. RAIN/FREEZE SENSOR MOUNTED TO CONTROLLER PEDESTAL. REF. 501-503.
 5. 3" IRRIGATION METER. REF. CIVIL. SYSTEM DESIGN PRESSURE AT METER = 76.7 PSI.
 6. TEMPORARY IRRIGATION AREA. CONTRACTOR SHALL PROVIDE TEMPORARY IRRIGATION FOR SOD OR HYDROSEED AREAS NOT RECEIVING PERMANENT IRRIGATION. TEMPORARY IRRIGATION SHALL REMAIN UNTIL FULL ESTABLISHMENT OF SOD/HYDROSEED IS OBTAINED AS SPECIFIED. EXTEND MAINLINE ACROSS DRIVE AND CAP FOR FUTURE USE. EXTEND 2" WIRE IN SEPARATE CONDUIT ACROSS DRIVE AND INSTALL GROUNDING AT END OF WIRE RUN.

EXISTING UTILITIES

CONTRACTOR MUST VERIFY LOCATION OF ALL OVERHEAD AND UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL COORDINATE WITH CITY OFFICIALS AND UTILITY COMPANIES IN LOCATING UTILITIES. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR LOSSES DUE TO DAMAGE TO UTILITIES. LOCATION FOR ALL UTILITIES SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL CALL TEXAS 811, 1-800-344-6377.

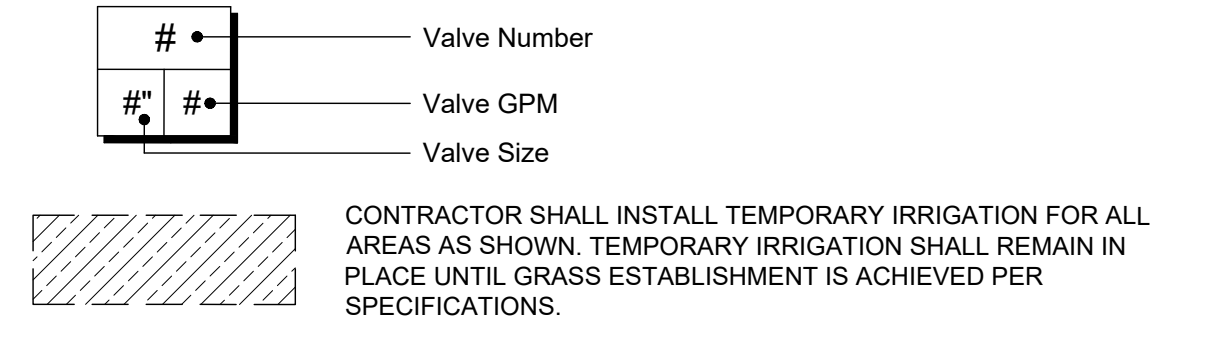
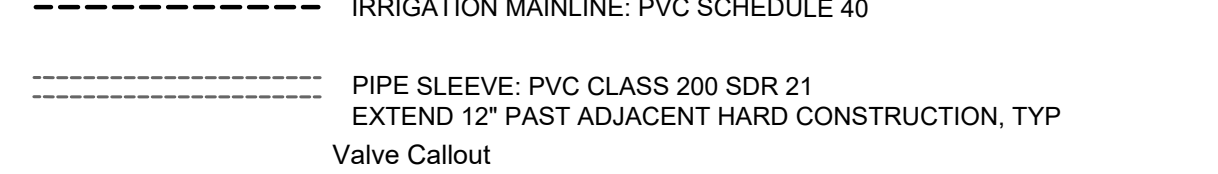
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A1 IRRIGATION PLAN - AREA F
1" = 30'

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
⊖	RAIN BIRD 1804 08P TURF SPRAY 4.0IN. POP-UP SPRINKLER	30
⊖	RAIN BIRD 1804 08H TURF SPRAY 4.0IN. POP-UP SPRINKLER	30
⊖	RAIN BIRD 1804 08Q TURF SPRAY 4.0IN. POP-UP SPRINKLER	30
⊖	RAIN BIRD 1804 09SST TURF SPRAY 4.0IN. POP-UP SPRINKLER	30
⊖	RAIN BIRD 1804 10F TURF SPRAY 4.0IN. POP-UP SPRINKLER	30
⊖	RAIN BIRD 1804 10H TURF SPRAY 4.0IN. POP-UP SPRINKLER	30
⊖	RAIN BIRD 1804 10Q TURF SPRAY 4.0IN. POP-UP SPRINKLER	30
⊖	RAIN BIRD 1804 15F TURF SPRAY 4.0IN. POP-UP SPRINKLER	30
⊖	RAIN BIRD 1804 15H TURF SPRAY 4.0IN. POP-UP SPRINKLER	30
⊖	RAIN BIRD 1804 15Q TURF SPRAY 4.0IN. POP-UP SPRINKLER	30
⊖	RAIN BIRD 1804 15V TURF SPRAY 4.0IN. POP-UP SPRINKLER	30
⊖	RAIN BIRD 1804 1400 FLOOD 1402 FLOOD BUBBLER 4.0 IN. POPUP	30
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
⊖	RAIN BIRD 5004-PC-MPR 25 TURF ROTOR, 4IN. POP-UP, PLASTIC RISER, MATCHED PRECIPITATION ROTOR (MPR NOZZLE), ARC AND RADIUS AS PER SYMBOL	35
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	PSI
⊖	RAIN BIRD PEB WFD-101 DECODER	45
⊖	PLASTIC INDUSTRIAL VALVES, GLOBE CONFIGURATION, INSTALL A PVC BALL VALVE AT EACH REMOTE CONTROL VALVE, UPSTREAM IN A SEPARATE VALVE BOX. SHALL INCLUDE FD-101 DECODER.	45
⊖	RAIN BIRD 44-NP 1IN. BRASS QUICK-COUPLING VALVE, WITH CORROSION-RESISTANT STAINLESS STEEL SPRING, LOCKING NON-POTABLE PURPLE RUBBER COVER, AND 2-PIECE BODY. SHUT OFF VALVE	45
⊖	RAIN BIRD 300-8PES GLOBE WFD-101 DECODER 3" 3IN. BRASS MASTER VALVE, WITH GLOBE CONFIGURATION. SHALL INCLUDE FD-101 DECODER.	45
⊖	ZURN 975XL 2" REDUCED PRESSURE BACKFLOW DEVICE, INCLUDES FLOW SENSING TWO-WIRE DECODER COMMERCIAL CONTROLLER, 125 STATIONS, UV-RESISTANT, OUTDOOR-RATED, POWDER-COATED METAL PEDESTAL CASE. CONTRACTOR SHALL PROVIDE ALL NECESSARY EQUIPMENT FOR CELLULAR CONNECTION TO IQ4 CENTRAL CONTROL PLATFORM. CONTRACTOR SHALL INSTALL 2-WIRE AND GROUNDING AS REQUIRED BY MANUFACTURER SPECIFICATIONS.	45
⊖	RAIN BIRD LSP-1TURF W2-WIRE GROUNDING LINE SURGE PROTECTION DECODER INSTALLED IN 6-INCH VALVE BOX. GROUND ROD AND DECODER SHALL BE INSTALLED PER ASIC GUIDELINES AND RAIN BIRD SPECIFICATIONS. INSTALL AT FREQUENCY AND LOCATIONS NOT EXCEEDING MANUFACTURER REQUIREMENTS, INCLUDING MAXIMUM SPACING OF 8-UNITS AND NOT EXCEEDING 500-FEET.	Unknown
⊖	RAIN BIRD WR2-RCF WIRELESS RAIN AND FREEZE SENSOR COMBO. MOUNT TO IRRIGATION PEDESTAL.	Unknown
⊖	RAIN BIRD IQ4-USA IQ NCC 4G CELLULAR CARTRIDGE UPGRADES ESP-LX SERIES CONTROLLERS TO IQ4 SATELLITE. FOR COMMUNICATION WITH IQ4 CENTRAL CONTROL. INCLUDE IQEXTANT4G EXTERNAL ANTENNA FOR METAL PEDESTAL.	Unknown
⊖	RAIN BIRD UFS-200 WSD-211 SENSOR DECODER 2IN. ULTRASONIC FLOW SENSORS, WITH GLASS FILLED NYLON BODY. OPERATING RANGE 1 GPM TO 200 GPM. SIZE FOR FLOW NOT ACCORDING TO PIPE SIZE. SHALL INCLUDE SD-211 SENSOR DECODER.	Unknown
⊖	CAP FOR FUTURE USE CAP AT THE MAINLINE OR LATERAL LINE FOR FUTURE USE. THE PRESSURE AND FLOW PROVIDED TO THAT LOCATION ARE INDICATED NEXT TO THE CAP SYMBOL.	Unknown
⊖	WATER METER 3" NEW 3" IRRIGATION METER, REF. CIVIL	Unknown



CRITICAL ANALYSIS

Generated: 2023-09-13 17:00

P.O.C. NUMBER: 01
Water Source Information: New 3" Irrigation Meter, Ref. Civil

FLOW AVAILABLE
Water Meter Size: 3"
Flow Available: 225 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 80 PSI
Elevation Change: 5.00 ft
Service Line Size: 4"
Length of Service Line: 20 ft
Pressure Available: 78 PSI

DESIGN ANALYSIS
Maximum Multi-valve Flow: 180 GPM
Flow Available at POC: 225 GPM
Residual Flow Available: 45 GPM

Critical Station: 76
Design Pressure: 30 PSI
Friction Loss: 2.92 PSI
Frings Loss: 0.29 PSI
Elevation Loss: 0 PSI
Loss through Valve: 3.75 PSI
Pressure Req. at Critical Station: 37.0 PSI
Loss for Fittings: 1.38 PSI
Loss for Main Line: 13.8 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 15.1 PSI
Loss for Master Valve: 2.2 PSI
Loss for Water Meter: 7.23 PSI
Critical Station Pressure at POC: 76.7 PSI
Pressure Available: 78 PSI
Residual Pressure Available: 1.29 PSI

VALVE SCHEDULE

NUMBER	MODEL	SIZE	TYPE	GPM	DESIGN PSI	FRICTION LOSS	VALVE LOSS	PSI	PSI @ POC	PRECIP
1	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	38.23	30	0.58	3.52	34.1	63.1	1.72 inH
2	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	29.41	30	0.98	3.62	34.6	63.3	3.64 inH
3	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	29.41	30	0.81	3.62	34.4	63.1	3.54 inH
4	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	34.93	30	0.9	3.55	34.4	62.8	1.86 inH
5	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	22.49	30	0.64	3.83	34.5	62.6	3.82 inH
6	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	27.68	30	1.08	3.67	34.7	62.9	3.85 inH
7	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	31.14	30	1.58	3.59	35.2	62.6	3.84 inH
8	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	38.06	30	1.61	3.52	35.1	62.5	3.54 inH
9	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	41.19	30	1.32	3.5	34.8	62.1	1.87 inH
10	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	35.15	30	1.47	3.55	35.0	61.3	1.58 inH
11	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	34.6	30	1.56	3.55	35.1	61.9	3.83 inH
12	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	36.59	30	1.32	3.65	34.2	60.1	3.86 inH
13	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	36.59	30	2.12	3.53	35.7	61.3	0.98 inH
14	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	38.06	30	1.18	3.52	34.7	60.1	3.31 inH
15	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	25.15	30	1.39	3.76	35.1	60.5	0.9 inH
16	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	24.76	30	0.44	3.76	34.2	59.3	1.66 inH
17	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	32.87	30	1.48	3.57	35.1	60.3	3.9 inH
18	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	34.6	30	1.58	3.57	35.1	60.5	3.87 inH
19	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	27.04	30	0.49	3.69	34.2	60.0	1.92 inH
20	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	27.68	30	0.59	3.67	34.3	60.4	3.61 inH
21	RAIN BIRD PEB WFD-101 DECODER	1"	TURF SPRAY	16.24	30	0.22	3.9	34.1	60.7	2.15 inH
22	RAIN BIRD PEB WFD-101 DECODER	1"	TURF SPRAY	15.78	30	0.43	3.9	34.3	61.1	3.39 inH
23	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	20.76	30	0.29	3.88	34.2	61.1	3.39 inH
24	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	20.76	30	0.31	3.11	33.4	60.6	3.81 inH
25	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	21.2	30	0.74	3.59	34.3	61.7	1.63 inH
26	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	22.49	30	0.46	3.83	34.3	61.9	3.66 inH
27	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	24.22	30	0.45	3.77	34.2	62.1	3.52 inH
28	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	15.83	30	0.42	3.44	32.9	60.8	1.68 inH
29	RAIN BIRD PEB WFD-101 DECODER	1"	TURF SPRAY	15.83	30	0.4	2.44	32.8	61.1	1.68 inH
30	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	24.44	30	0.38	3.77	34.1	62.7	1.62 inH
31	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	20.54	30	0.64	3.64	34.2	60.4	1.62 inH
32	RAIN BIRD PEB WFD-101 DECODER	1"	TURF SPRAY	12.94	30	0.45	2.12	32.6	61.6	1.72 inH
33	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	36.77	30	0.78	3.53	34.3	63.6	1.74 inH
34	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	35.8	30	0.26	3.88	34.2	63.4	1.06 inH
35	RAIN BIRD PEB WFD-101 DECODER	1"	TURF SPRAY	19.94	30	1.05	2.89	33.9	63.4	3.69 inH
36	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	23.39	30	0.92	3.8	34.7	64.3	1.5 inH
37	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	24.7	30	0.97	3.76	34.7	64.3	1.48 inH
38	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	37.32	30	1.34	3.53	34.9	64.6	1.53 inH
39	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	22.88	30	0.32	3.81	34.1	64.0	1.7 inH
40	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	24.45	30	0.93	3.77	34.7	64.6	1.52 inH
41	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	28.89	30	1.1	3.61	35.4	65.1	0.96 inH
42	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	28.89	30	2.12	3.63	35.8	65.9	0.93 inH
43	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	18.67	30	0.84	3.9	34.7	64.8	1.81 inH
44	RAIN BIRD PEB WFD-101 DECODER	1"	TURF SPRAY	17.79	30	1.1	2.66	33.6	63.7	1.75 inH
45	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	33.14	30	2.3	3.57	35.9	66.5	0.92 inH
46	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	34.96	30	1.99	3.55	35.5	66.2	0.96 inH
47	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	19.66	30	1.39	3.9	35.3	66.0	1.69 inH
48	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	22.05	30	1.14	3.84	35.0	65.9	1.82 inH
49	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	40.25	30	2.34	3.5	35.8	67.3	0.9 inH
50	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	40.37	30	2.2	3.5	35.7	67.1	0.92 inH
51	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	29.13	30	2.21	3.63	35.8	66.1	0.94 inH
52	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	29.46	30	1.77	3.62	35.4	65.5	0.95 inH
53	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	20.89	30	0.91	3.87	34.8	64.9	1.58 inH
54	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	12.48	30	0.22	3.23	32.3	62.5	1.69 inH
55	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF SPRAY	24.62	30	0.74	3.76	34.5	64.6	1.43 inH
56	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF ROTOR	30.69	35	1.11	3.59	39.7	69.8	0.72 inH
57	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF ROTOR	27.2	35	0.78	3.68	39.5	69.5	0.67 inH
58	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF ROTOR	27.2	35	0.78	3.68	39.5	69.3	0.65 inH
59	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF ROTOR	27.2	35	0.8	3.68	39.5	69.3	0.64 inH
60	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF ROTOR	27.2	35	0.77	3.68	39.5	69.0	0.64 inH
61	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF ROTOR	27.2	35	0.79	3.68	39.5	69.0	0.64 inH
62	RAIN BIRD PEB WFD-101 DECODER	1"	TURF ROTOR	17.09	35	0.34	2.58	37.9	67.7	0.69 inH
63	RAIN BIRD PEB WFD-101 DECODER	1"	TURF ROTOR	17.69	35	0.84	2.65	38.5	66.6	0.69 inH
64	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF ROTOR	26.72	35	0.77	3.7	39.5	69.6	0.77 inH
65	RAIN BIRD PEB WFD-101 DECODER	1"	TURF ROTOR	13.36	35	0.75	3.9	39.7	69.8	0.64 inH
66	RAIN BIRD PEB WFD-101 DECODER	1"	TURF ROTOR	13.84	35	1.61	3.9	40.5	71.0	0.63 inH
67	RAIN BIRD PEB WFD-101 DECODER	1"	TURF ROTOR	32.15	35	1.06	6.55	42.6	72.8	0.68 inH
68	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF ROTOR	31.63	35	0.75	3.58	39.3	69.4	0.68 inH
69	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF ROTOR	32.15	35	0.78	3.58	39.4	69.3	0.64 inH
70	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF ROTOR	34.64	35	1.11	3.55	39.7	69.3	0.67 inH
71	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	TURF ROTOR	32.84	35	1.54	3.57	40.1	69.3	0.62 inH
72	RAIN BIRD PEB WFD-101 DECODER	1"	BUBBLER	15	30	1.51	3.9	35.4	66.7	1.9 inH
73	RAIN BIRD PEB WFD-101 DECODER	1"	BUBBLER	17	30	2.45	3.9	36.4	66.7	1.96 inH
74	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	BUBBLER	29	30	5.15	3.63	38.8	68.5	2.07 inH
75	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	BUBBLER	32	30	4.62	3.68	38.2	75.1	1.92 inH
76	RAIN BIRD PEB WFD-101 DECODER	1-1/2"	BUBBLER	25	30	3.21	3.75	37.0	76.7	1.95 inH
Unknown	CAP FOR FUTURE USE		CAP					73.1		Unknown
Unknown	CAP FOR FUTURE USE		CAP					75.8		Unknown
Unknown	CAP FOR FUTURE USE		CAP					75.6		Unknown
Unknown	CAP FOR FUTURE USE		CAP					72.0		Unknown

IRRIGATION - TCEQ GENERAL NOTES

- THIS IRRIGATION SYSTEM HAS BEEN DESIGNED AND SHALL BE INSTALLED ACCORDING TO TEXAS ADMINISTRATIVE CODE, TITLE 30 - ENVIRONMENTAL QUALITY, PART 1 - TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) CHAPTER 844 - LANDSCAPE IRRIGATION. THE FOLLOWING INFORMATION IS PROVIDED AS A COURTESY AND IS NOT A COMPLETE LIST OF TCEQ REQUIREMENTS.
- THE MAXIMUM SPACING BETWEEN EMISSION DEVICES MUST NOT EXCEED THE MANUFACTURER'S PUBLISHED RADIUS OR SPACING OF THE DEVICE.
- NEW IRRIGATION SYSTEMS SHALL NOT UTILIZE ABOVE-GROUND SPRAY EMISSION DEVICES IN LANDSCAPES THAT ARE LESS THAN 40 INCHES NOT INCLUDING THE INTERVIOUS SURFACES IN EITHER LENGTH OR WIDTH AND WHICH CONTAIN IMPERVIOUS PEDESTRIAN OR VEHICULAR TRAFFIC SURFACES ALONG TWO OR MORE PERIMETERS.
- EMISSION DEVICES MUST BE INSTALLED TO OPERATE AT THE MINIMUM AND NOT ABOVE THE MAXIMUM SPRINKLER HEAD PRESSURE AS PUBLISHED BY THE MANUFACTURER FOR THE NOZZLE AND HEAD SPACING THAT IS USED.
- IRRIGATION SYSTEMS SHALL NOT SPRAY WATER OVER SURFACES MADE OF CONCRETE, ASPHALT, BRICK, WOOD, STONES SET WITH MORTAR, OR ANY OTHER IMPERVIOUS MATERIAL, SUCH AS, BUT NOT LIMITED TO, WALLS, FENCES, SIDEWALKS, STREETS, ETC.
- ALL NEW IRRIGATION SYSTEMS THAT ARE INSTALLED USING PVC PIPE AND FITTINGS SHALL BE PRIMED WITH A COLORED PRIMER PRIOR TO APPLYING THE PVC CEMENT.
- THE IRRIGATION SYSTEM MUST INCLUDE AN ISOLATION VALVE BETWEEN THE WATER METER AND THE BACKFLOW PREVENTION DEVICE.
- WATER CONTAINED WITHIN THE PIPING OF AN IRRIGATION SYSTEM IS DEEMED TO BE NON-POTABLE. NO DRINKING OR DOMESTIC WATER USAGE SUCH AS, BUT NOT LIMITED TO, FILLING SWIMMING POOLS OR DECORATIVE FOUNTAINS, SHALL BE CONNECTED TO AN IRRIGATION SYSTEM.
- HOSE BIBS MUST BE INSTALLED USING A QUICK COUPLER KEY ON A QUICK COUPLER INSTALLED IN A COVERED PURPLE VALVE BOX AND THE HOSE BIB AND ANY HOSES CONNECTED TO THE BIB MUST BE LABELED



CROSSLAND - Parkhill

CLIENT

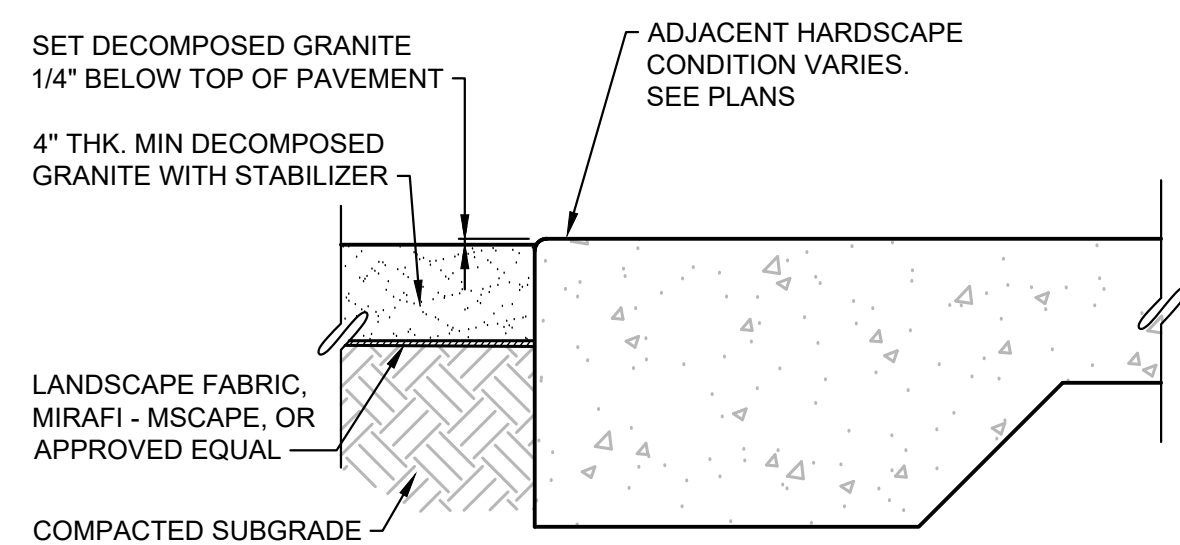
Stephenville ISD

N Frey & N Wolfe Nursery Rd.
Stephenville, TX 76401

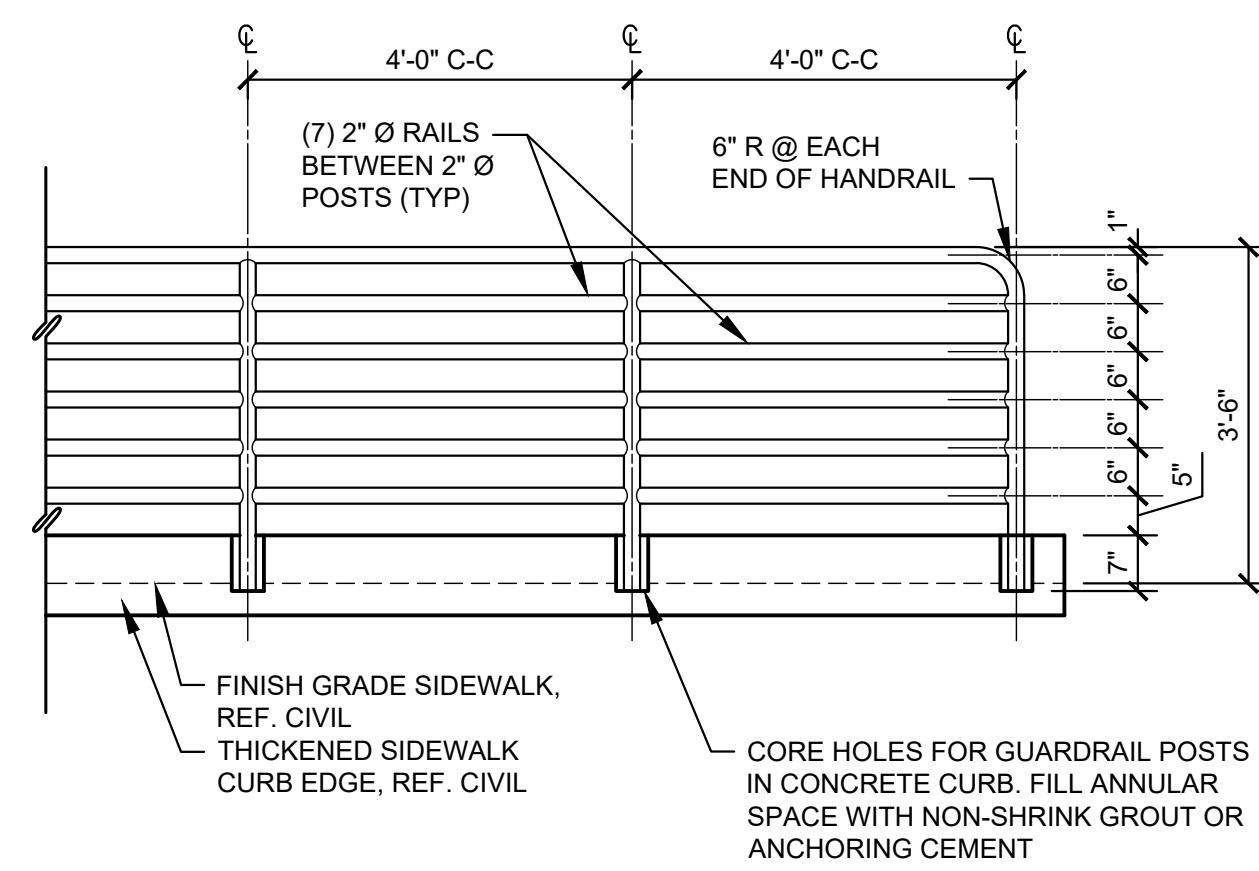
PROJECT NO.

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KEY PLAN



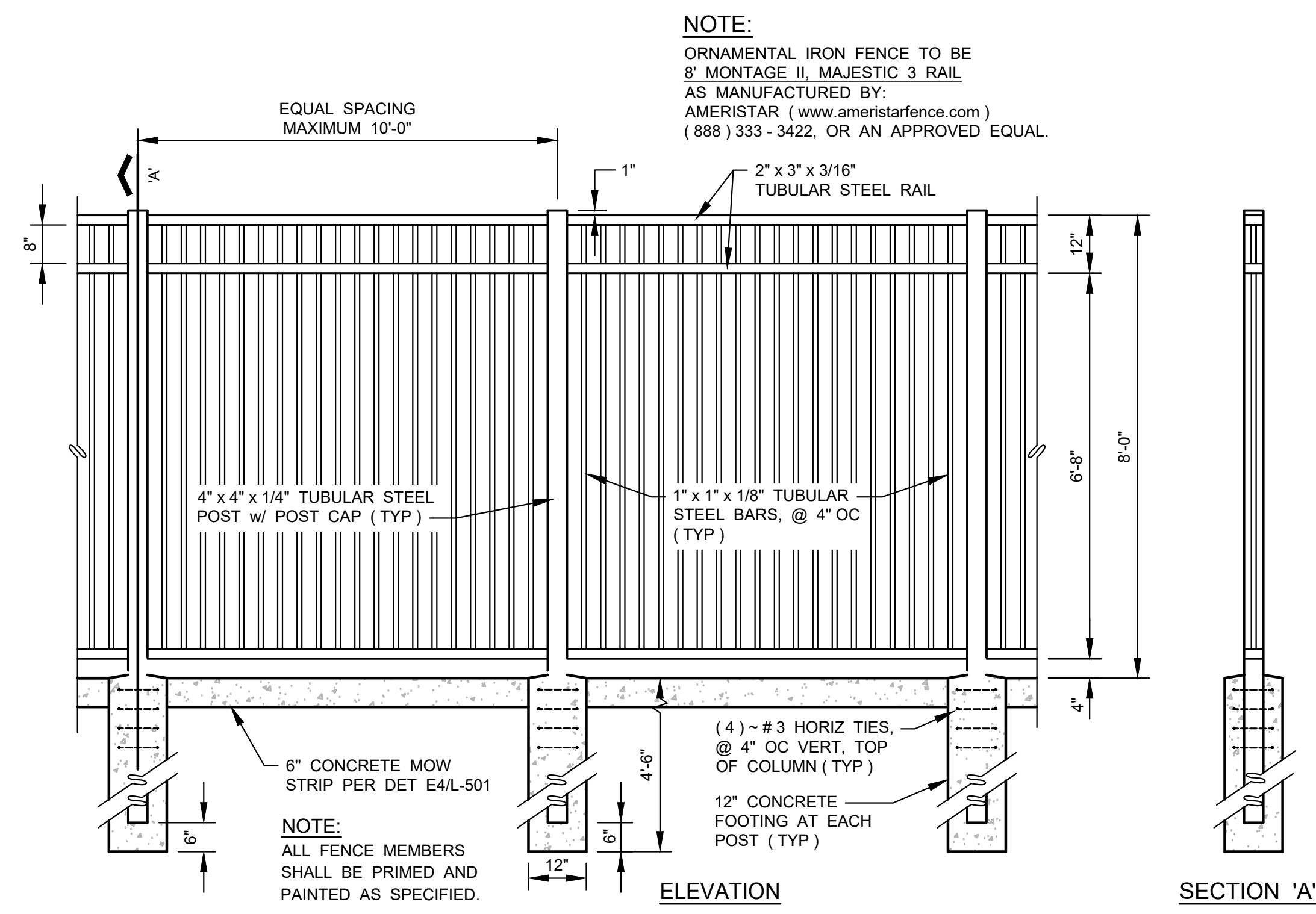
B1 DECOMPOSED GRANITE PAVING
1/12"=1'-0"
PVMT_DECOMP_GRANITE



B2 GUARD RAIL ELEVATION
SCALE: 1/2"=1'-0"
GARD_RAIL_ELEV.dwg

GUARD RAIL NOTES

- CENTER GUARD RAIL POSTS IN RAISED CURB.
- RAIL POSTS SHALL BE VERTICAL.
- GUARD RAIL SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
- ALL WELDED AREAS TO BE GROUND SMOOTH PRIOR TO GALVANIZING.
- ALL MEMBERS SHALL BE 2" DIA. SCHEDULE 40 STEEL PIPE.
- GUARD RAIL SHALL BE PRIMED AND PAINTED. SUBMIT COLOR PALETTE FOR ARCHITECT AND OWNER SELECTION.
- MAXIMUM OPEN SPACE BETWEEN RAILS IS 4".

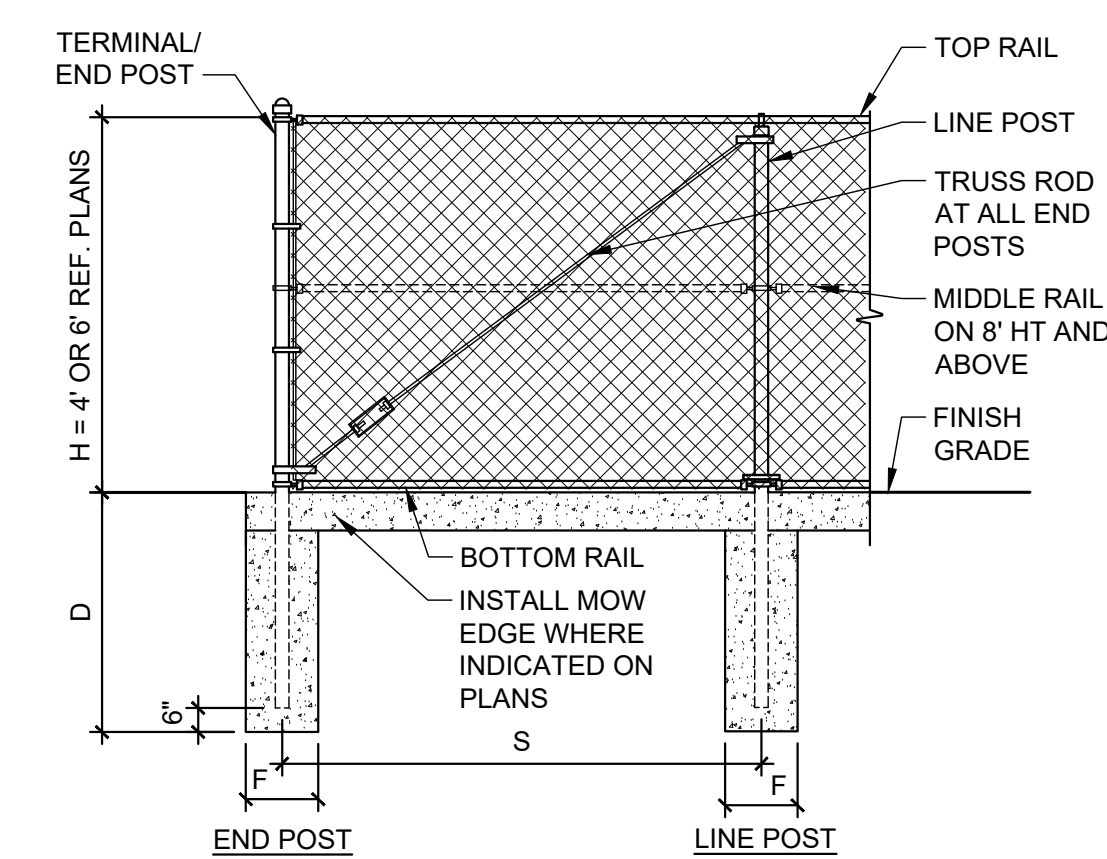


B4 8' ORNAMENTAL FENCE
1/2"=1'-0"
8_ORNA_FENC_01.dwg

NOTE:
ORNAMENTAL IRON FENCE TO BE 8' MONTAGE II, MAJESTIC 3 RAIL AS MANUFACTURED BY: AMERISTAR (www.ameristarfence.com) (888) 333-3422, OR AN APPROVED EQUAL.

CHAIN LINK FENCE DATA (TYPE I - ASTM F1083-06 REG GRADE PIPE)

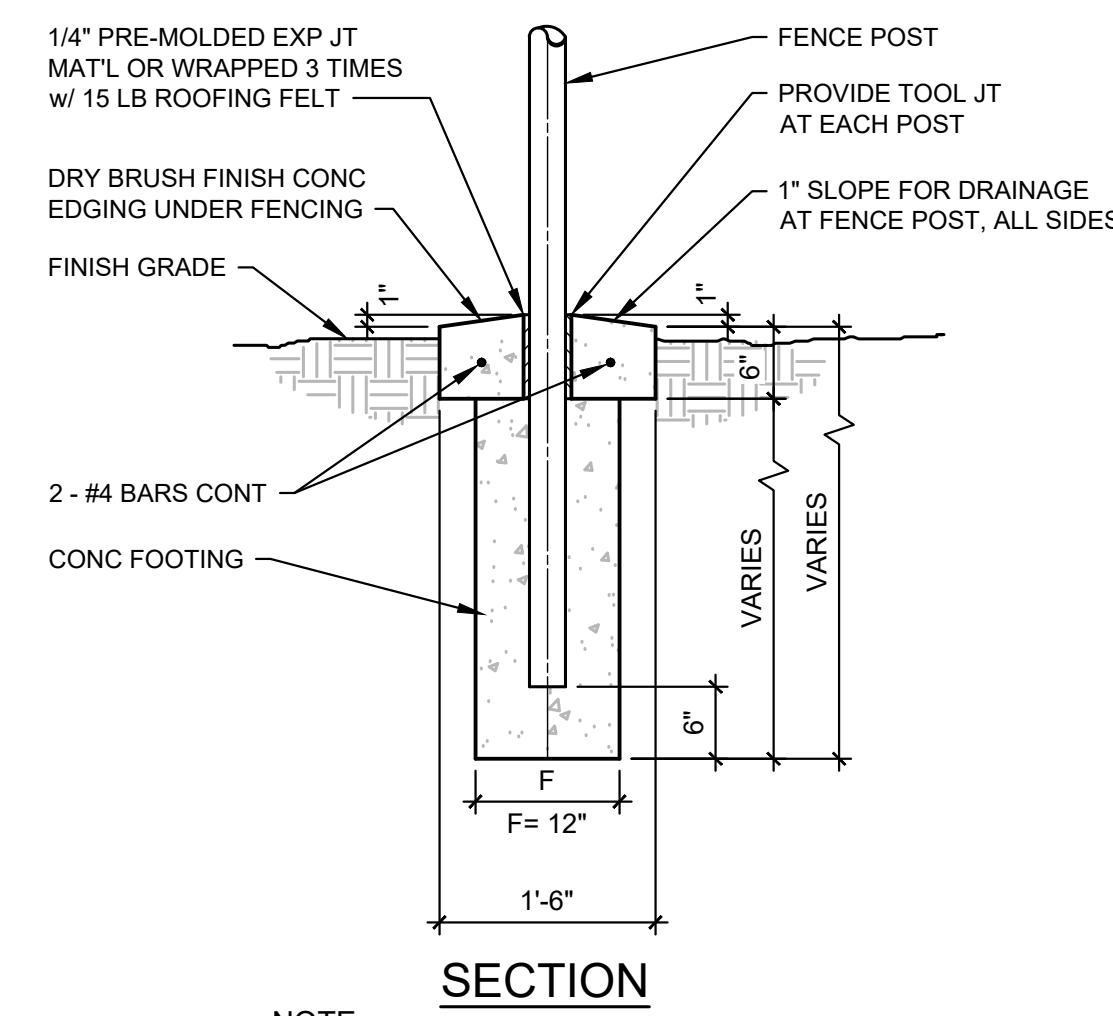
H = FENCE HEIGHT	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	10'-0"	12'-0"
END/TERMINAL/GATE POST SIZE	2 3/8" OD SCH 40	2 3/8" OD SCH 40	2 3/8" OD SCH 40	2 7/8" OD SCH 40	4" OD SCH 40	4" OD SCH 40	4" OD SCH 40
LINE POST SIZE	1 7/8" OD SCH 40	1 7/8" OD SCH 40	1 7/8" OD SCH 40	2 3/8" OD SCH 40	2 7/8" OD SCH 40	2 7/8" OD SCH 40	4" OD SCH 40
TOP AND BOTTOM RAIL	1 5/8" OD SCH 40	1 5/8" OD SCH 40	1 5/8" OD SCH 40	1 5/8" OD SCH 40	1 5/8" OD SCH 40	1 5/8" OD SCH 40	1 5/8" OD SCH 40
MIDDLE RAIL	N/A	N/A	N/A	N/A	1 5/8" OD SCH 40	1 5/8" OD SCH 40	1 5/8" OD SCH 40
GATE FRAME	2 3/8" OD SCH 40	2 3/8" OD SCH 40	2 3/8" OD SCH 40	2 3/8" OD SCH 40	2 3/8" OD SCH 40	2 3/8" OD SCH 40	2 3/8" OD SCH 40
D = FOOTING DEPTH	3'-6"	3'-6"	3'-6"	4'-0"	5'-6"	5'-6"	5'-6"
F = FOOTING DIAMETER	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"	1'-0"
S = POST SPACING	10'-0" MAX OR AS SPEC'D	10'-0" MAX OR AS SPEC'D	10'-0" MAX OR AS SPEC'D	10'-0" MAX OR AS SPEC'D	10'-0" MAX OR AS SPEC'D	10'-0" MAX OR AS SPEC'D	10'-0" MAX OR AS SPEC'D
MESH SIZE	2"	2"	2"	2"	2"	1-3/4"	1-3/4"
FABRIC GAUGE	9	9	9	9	9	9	9



A1 CHAIN LINK FENCE (TYP)
1/4"=1'-0"

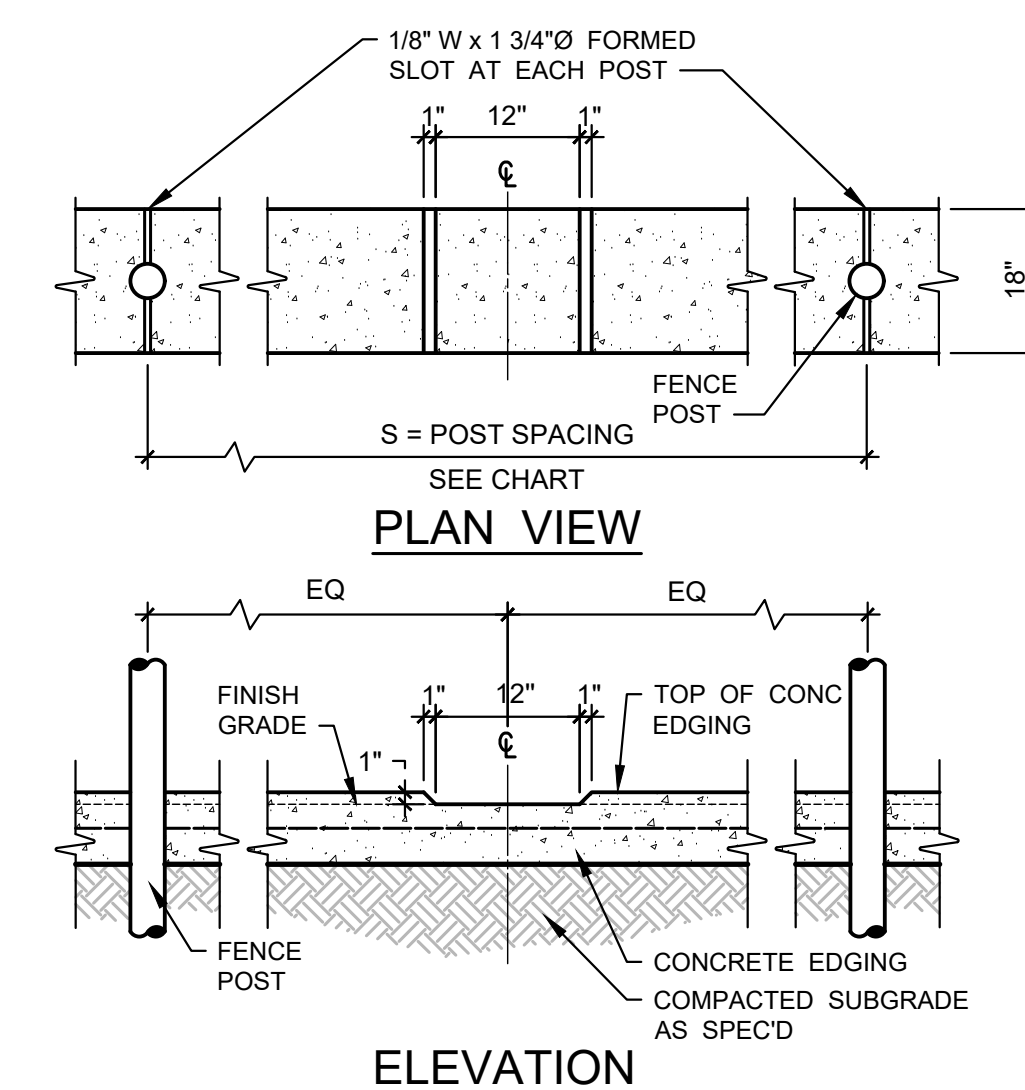
A2 CHAIN LINK FENCE SIZING CHARTS

FN_CH_LINK_CHART



A4 CONCRETE EDGING UNDER FENCE
3/4"=1'-0"

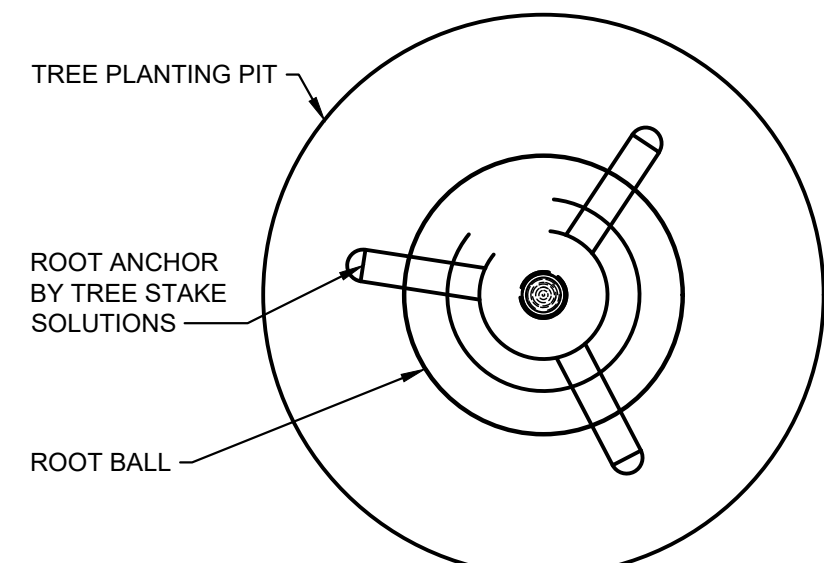
NOTE:
1. INSTALL 1/2" DOWELED EXP. JT @ 50' OC
2. 12" OPENINGS CENTERED BETWEEN POSTS TO ALLOW DRAINAGE



L_CONC_EDGE_UNDER_FENCE

A:\2022\40108.22\03_DSGN01_DWG\60_LAND\03_SHEET\UTILITY PACKAGE\501-40108.DWG, 9/14/2023, 12:48 PM, amcody

#	DATE	DESCRIPTION
3	09/15/2023	Development Plan Re-Submittal
2	09/08/2023	Development Plan Re-Submittal
1	08/25/2023	Development Plan Submittal



PLAN VIEW

* AFTER PLANTING, PRUNE ONLY CROSSING BRANCHES, BROKEN BRANCHES, DEAD BRANCHES AND/OR BRANCHES THAT POSE A HAZARD TO PARK USERS/PEDESTRIANS OR CLEARANCE OBSTRUCTIONS AT PARKING AND ALONG ROADWAYS.

TREE MUST BE PLANTED SUCH THAT THE ROOT FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE ROOT FLARE IS NOT VISIBLE WILL BE REJECTED.

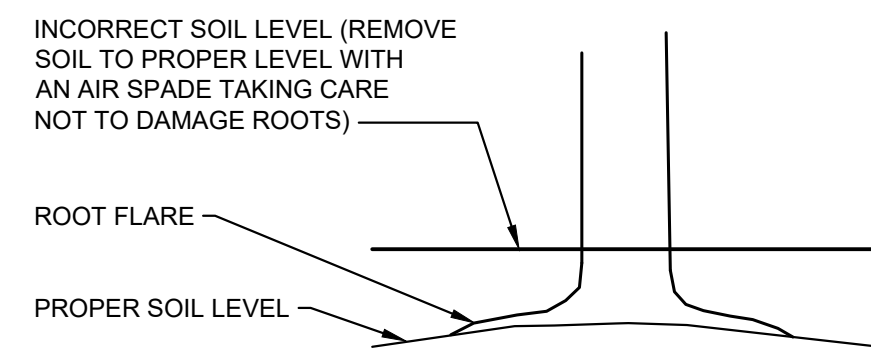
ROOT ANCHOR BY TREE STAKE SOLUTIONS. PROVIDE AND INSTALL THE APPROPRIATE SIZE ROOT ANCHOR AS RECOMMENDED BY THE MANUFACTURER. CONTACT 903-676-6143

1/2 ROOT BALL WIDTH (MINIMUM)
VARIES PER PLAN. 4" THK CRUSHED GRAVEL, AS SPEC'D OR 3" HARDWOOD MULCH AS SPEC'D. MULCH SHALL NOT BE PILED AROUND TRUNK, ROOT FLARE SHALL BE VISIBLE.

1" COMPOST, AS SPEC'D.
CUT AWAY AND REMOVE ALL GALVANIZED WIRE BASKET, TWINE, ROPE AND BURLAP FROM THE TOP TWO-THIRDS OF THE ROOT BALL BEFORE BACKFILLING THE PLANTING PIT. ALL TWINE, ROPE AND BURLAP MUST BE BIODEGRADABLE.

BACKFILL PLANTING PIT WITH NATIVE SOIL. MIX SOIL THOROUGHLY PRIOR TO BACKFILLING. SATURATE WITH WATER TO ELIMINATE VOIDS AND ENSURE FULL CONTACT WITH ROOT BALL.

SCARIFY BOTTOM AND SIDES OF PLANTING PIT. PLANTING PIT DEPTH TO BE 2" LESS THAN THE DEPTH OF THE ROOT BALL.



EXPOSED COVERED ROOT FLARE

NOTES:

1. TOP OF ROOT BALL SHALL BE TWO-INCHES (2") ABOVE FINISHED GRADE. ROOT FLARE MUST BE VISIBLE AFTER PLANTING AND MULCHING.
2. DO NOT CONSTRUCT A WATER BASIN AROUND THE PLANTING PIT.
3. DO NOT PILE MULCH AROUND THE TREE TRUNK.
4. ROOT BOUND TREES WILL NOT BE ACCEPTED.
5. TREES PLANTED TOO LOW, OR WITH THE ROOT FLARE COVERED, WILL NOT BE ACCEPTED.
6. APPLY TREE WRAPPING MATERIAL ON SMOOTH BARKED TREES (i.e. MAPLES & RED OAK) INSTALLED DURING THE SPRING SEASON. WRAP TRUNK FROM GUYING STRAPS TO THE ROOT BALL. USE A WATERPROOF TAPE OR ADHESIVE TO AFFIX THE PRODUCT TO ITSELF. TREE WRAP IS TO BE REMOVED BY THE CONTRACTOR AT THE END OF OCTOBER THAT SAME YEAR.
7. TREE WRAP SHALL BE CLARK'S TREE WRAP BY WALTER E. CLARK & SON, INC., (203) 795-1235, OR APPROVED EQUAL.
8. TREE STAKING IS TO BE REMOVED BY THE CONTRACTOR AFTER ONE (1) YEAR.
9. REFERENCE PLANS AND PROJECT MANUAL FOR SPECIFICATIONS DEFINING SIZE, TYPE, QUALITY, ETC.

TREE CALIPER MEASURED ABOVE TOP OF ROOT BALL (6" FOR TREES LESS OR EQUAL TO 4" CALIPER AND 12" FOR TREES GREATER THAN 4" CALIPER).

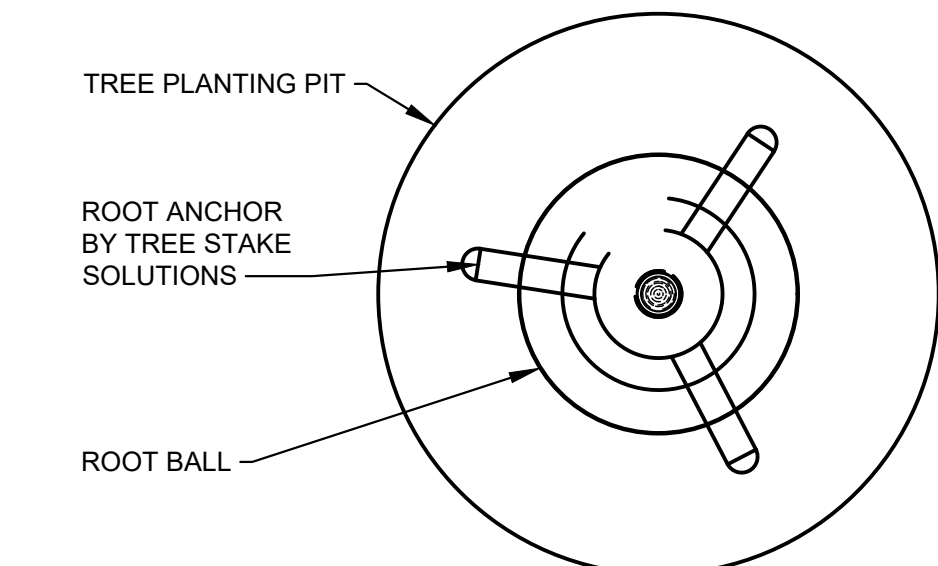
SEE NOTE #1.

UNDISTURBED SOIL

ROOT BALL TO BE PLACED ON UNDISTURBED SOIL. IF THE PLANTING PIT IS OVER-EXCAVATED, ADD FILL TO ACHIEVE THE PROPER PLANTING DEPTH AND TAMP THE SOIL TO COMPACT PRIOR TO PLANTING.

C1 MULTI-TRUNK TREE PLANTING AND STAKING

L_PLANTING_TREE_MULTI-TRUNK 2



PLAN VIEW

* AFTER PLANTING, PRUNE ONLY CROSSING BRANCHES, BROKEN BRANCHES, DEAD BRANCHES AND/OR BRANCHES THAT POSE A HAZARD TO PEDESTRIANS OR CLEARANCE OBSTRUCTIONS AT PARKING AND ALONG ROADWAYS.

TREE MUST BE PLANTED SUCH THAT THE ROOT FLARE IS VISIBLE AT THE TOP OF THE ROOT BALL. TREES WHERE THE ROOT FLARE IS NOT VISIBLE WILL BE REJECTED.

ROOT ANCHOR BY TREE STAKE SOLUTIONS. PROVIDE AND INSTALL THE APPROPRIATE SIZE ROOT ANCHOR AS RECOMMENDED BY THE MANUFACTURER. CONTACT 903-676-6143

1/2 ROOT BALL WIDTH (MINIMUM)

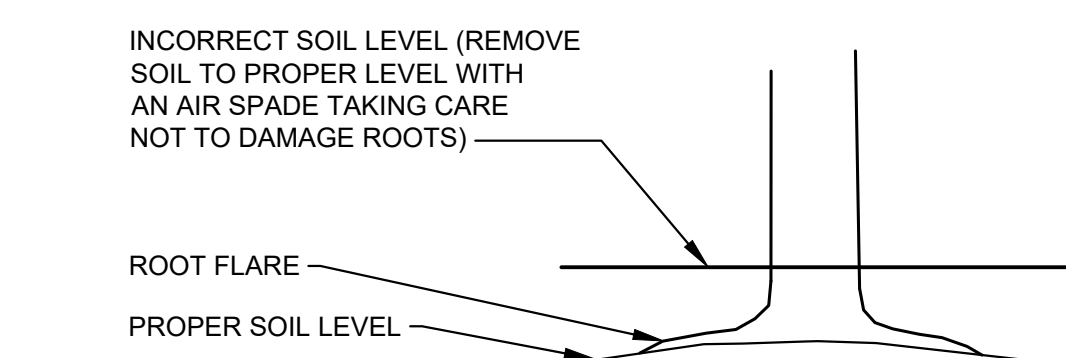
3" THK HARDWOOD MULCH AS SPEC'D. MULCH SHALL NOT BE PILED AROUND TRUNK, ROOT FLARE SHALL BE VISIBLE.

1" COMPOST, AS SPEC'D.

BACKFILL PLANTING PIT WITH NATIVE SOIL. MIX SOIL THOROUGHLY PRIOR TO BACKFILLING. SATURATE WITH WATER TO ELIMINATE VOIDS AND ENSURE FULL CONTACT WITH ROOT BALL.

SCARIFY BOTTOM AND SIDES OF PLANTING PIT. PLANTING PIT DEPTH TO BE 2" LESS THAN THE DEPTH OF THE ROOT BALL.

CUT AWAY AND REMOVE ALL GALVANIZED WIRE BASKET, TWINE, ROPE AND BURLAP FROM THE TOP TWO-THIRDS OF THE ROOT BALL BEFORE BACKFILLING THE PLANTING PIT. ALL TWINE, ROPE AND BURLAP MUST BE BIODEGRADABLE.



EXPOSED COVERED ROOT FLARE

NOTES:

1. TOP OF ROOT BALL SHALL BE TWO-INCHES (2") ABOVE FINISHED GRADE. ROOT FLARE MUST BE VISIBLE AFTER PLANTING AND MULCHING.
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3. DO NOT PILE MULCH AROUND THE TREE TRUNK.
4. ROOT BOUND TREES WILL NOT BE ACCEPTED.
5. TREES PLANTED TOO LOW, OR WITH THE ROOT FLARE COVERED, WILL NOT BE ACCEPTED.
6. APPLY TREE WRAPPING MATERIAL ON SMOOTH BARKED TREES (i.e. MAPLES & RED OAK) INSTALLED DURING THE SPRING SEASON. WRAP TRUNK FROM GUYING STRAPS TO THE ROOT BALL. USE A WATERPROOF TAPE OR ADHESIVE TO AFFIX THE PRODUCT TO ITSELF. TREE WRAP IS TO BE REMOVED BY THE CONTRACTOR AT THE END OF OCTOBER THAT SAME YEAR.
7. TREE WRAP SHALL BE CLARK'S TREE WRAP BY WALTER E. CLARK & SON, INC., (203) 795-1235, OR APPROVED EQUAL.
8. TREE STAKING IS TO BE REMOVED BY THE CONTRACTOR AFTER ONE (1) YEAR.
9. REFERENCE PLANS AND PROJECT MANUAL FOR SPECIFICATIONS DEFINING SIZE, TYPE, QUALITY, ETC.

CLARK'S TREE WRAP AS SPEC'D, OR APPROVED EQUAL. SEE NOTE #6 FOR MORE INFORMATION.

TREE CALIPER MEASURED ABOVE TOP OF ROOT BALL (6" FOR TREES LESS OR EQUAL TO 4" CALIPER AND 12" FOR TREES GREATER THAN 4" CALIPER).

SEE NOTE #1.

UNDISTURBED SOIL

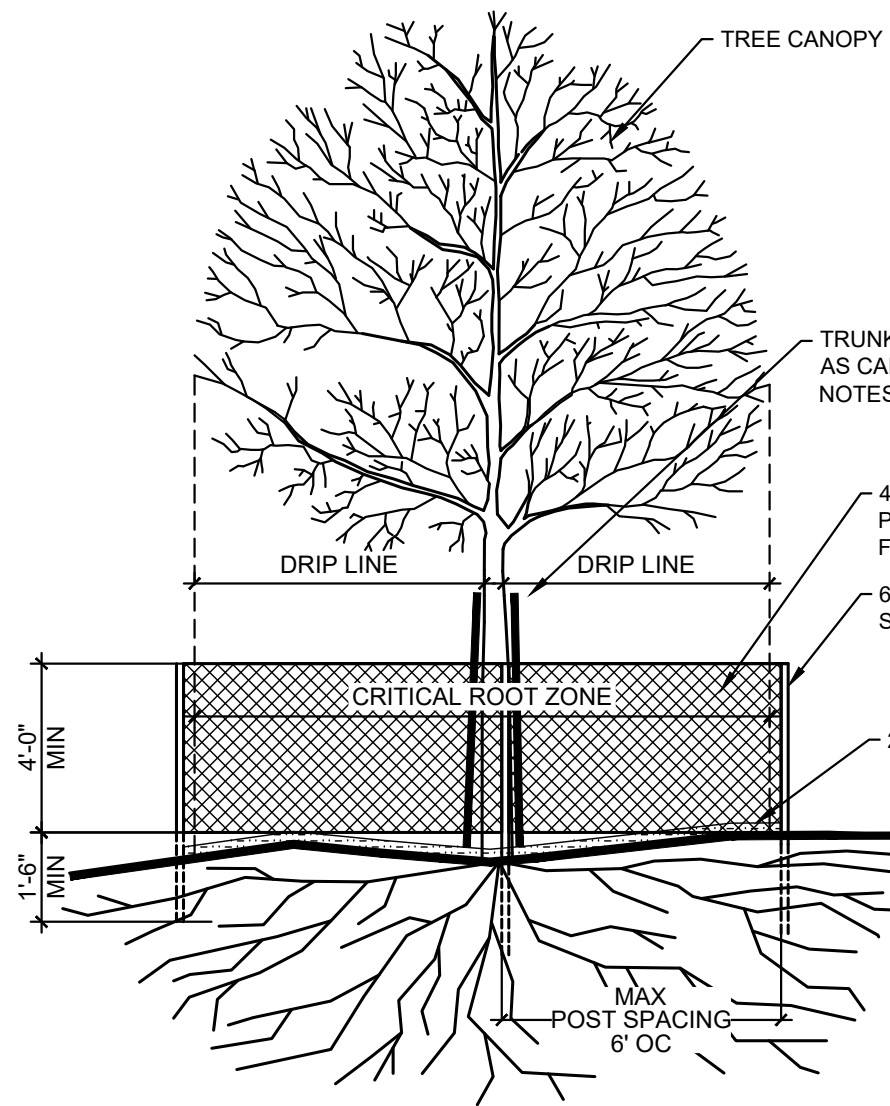
ROOT BALL TO BE PLACED ON UNDISTURBED SOIL. IF THE PLANTING PIT IS OVER-EXCAVATED, ADD FILL TO ACHIEVE THE PROPER PLANTING DEPTH AND TAMP THE SOIL TO COMPACT PRIOR TO PLANTING.

NOTES:
1. UPON COMPLETION OF ROUGH GRADING, CONTRACTOR SHALL DIG TEST TREE PITS ACROSS THE SITE. THE TEST PITS SHALL BE FILLED WITH WATER AND OBSERVED FOR DRAINAGE. IF THE PIT HOLDS WATER FOR GREATER THAN 24 HOURS, THE TREE LOCATIONS AND/OR SPECIES WILL BE REVISED.

A1 TREE PLANTING AND ANCHORING

L_PLANTING_TREE_STANDARD

SINGLE TREE



***CRITICAL ROOT ZONE:**

THE AREA OF UNDISTURBED NATURAL SOIL AROUND A TREE DEFINED BY A CONCENTRIC CIRCLE WITH A RADIUS TO THE DISTANCE FROM THE TREE TRUNK TO THE OUTERMOST PORTION OF THE DRIP LINE.

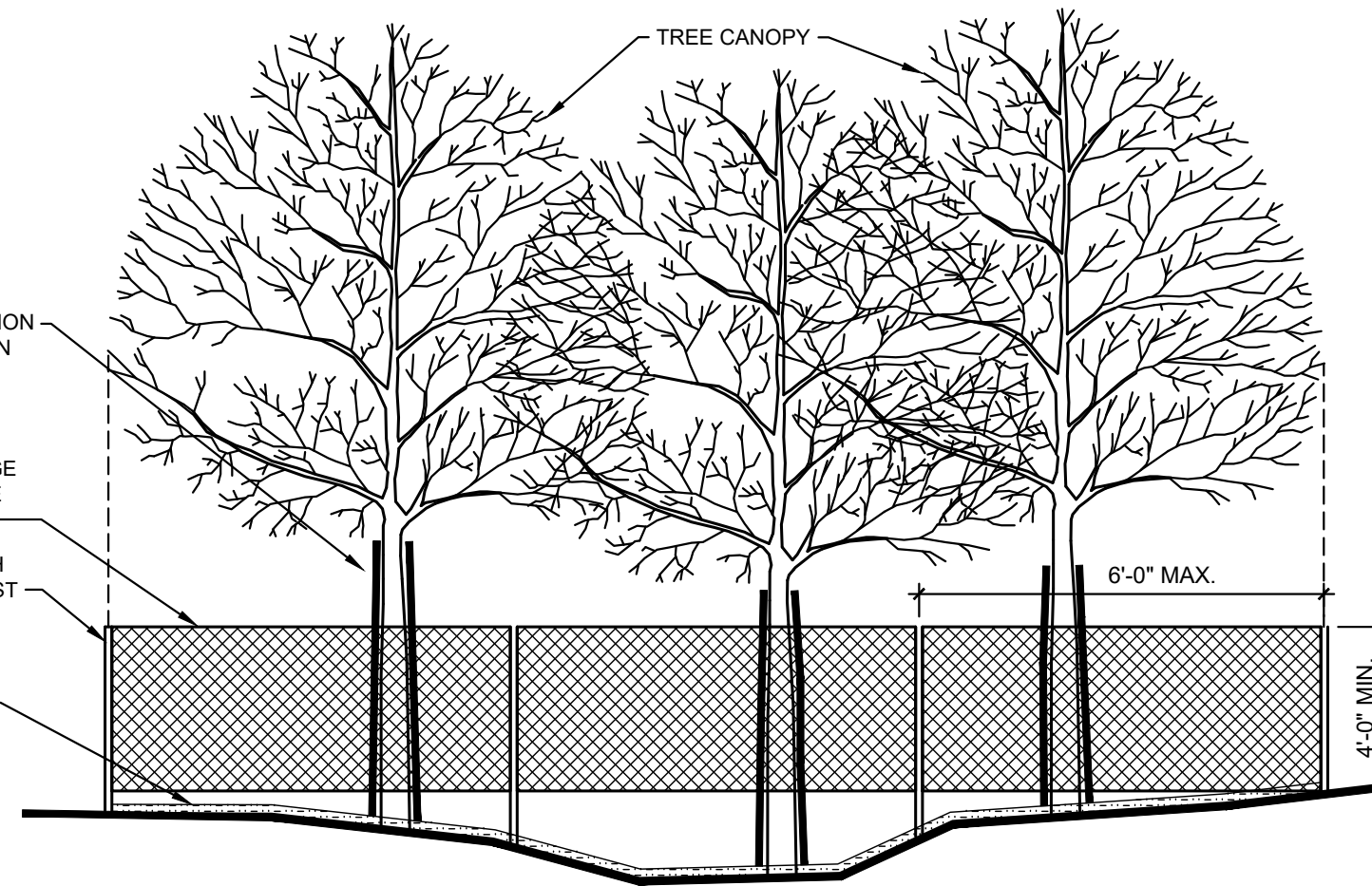
DRIP LINE:

A VERTICAL LINE RUN THROUGH THE OUTERMOST PORTION OF THE CANOPY OF A TREE AND EXTENDING TO THE GROUND.

PROTECTIVE FENCING:

ORANGE VINYL CONSTRUCTION FENCING, CHAIN LINK FENCING, SNOW FENCING, OR OTHER SIMILAR FENCING AS SPECIFIED AT LEAST FOUR FEET (4') HIGH AND SUPPORTED AT A MAXIMUM OF SIX FOOT (6') INTERVALS BY APPROVED METHOD SUFFICIENT ENOUGH TO KEEP THE FENCE UPRIGHT AND IN PLACE. THIS FENCING SHALL BE OF A HIGHLY VISIBLE MATERIAL.

TREE CLUSTER



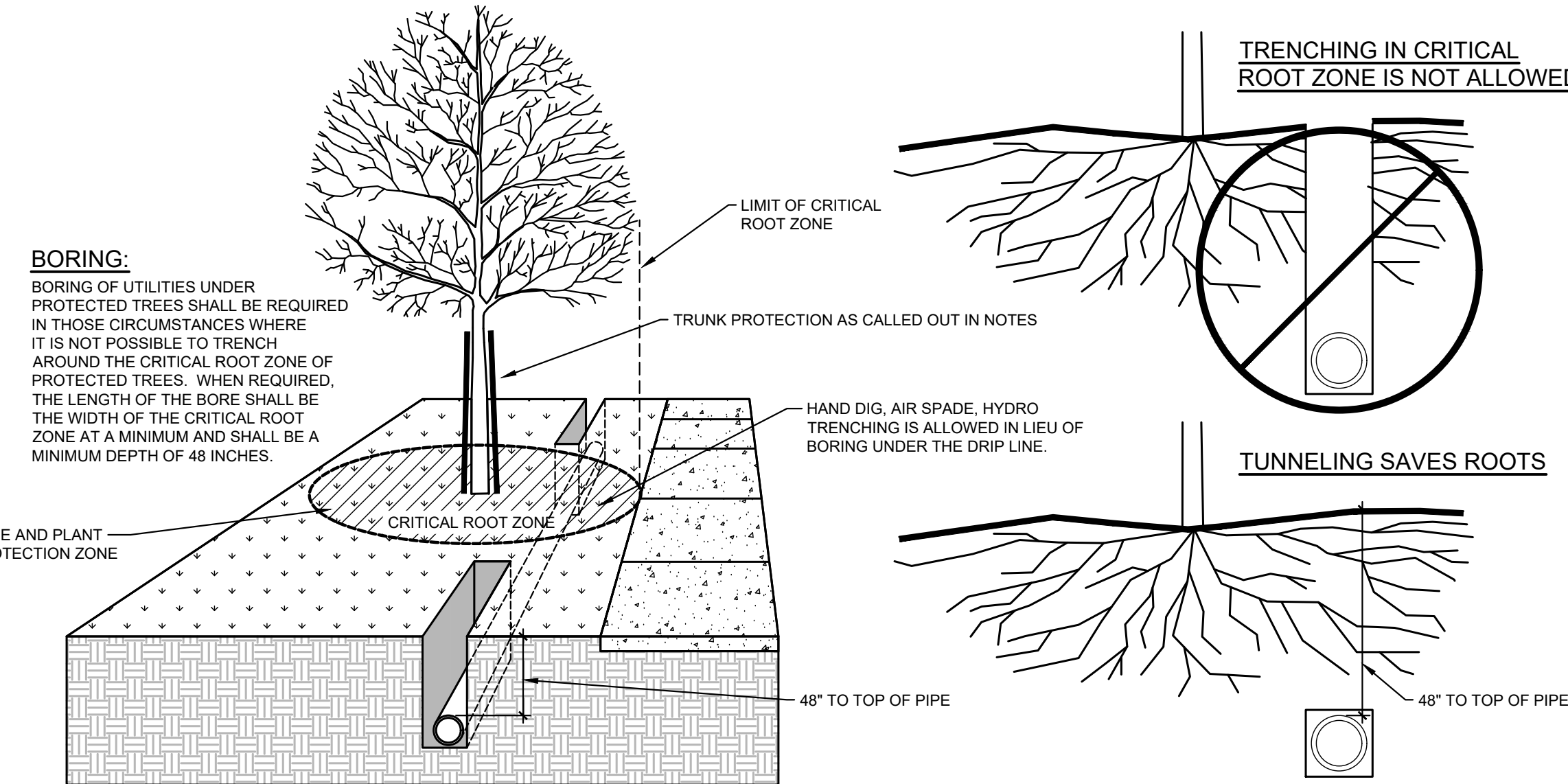
***THE FOLLOWING ACTIVITIES ARE PROHIBITED WITHIN THE LIMITS OF THE CRITICAL ROOT ZONE OF ANY TREES TO REMAIN.**

1. **MATERIAL STORAGE:** NO STORAGE OR PLACEMENT OF MATERIALS INTENDED FOR USE IN CONSTRUCTION OR WASTE MATERIALS ACCUMULATED DUE TO EXCAVATION OR DEMOLITION SHALL BE PLACED WITHIN THE LIMITS OF THE CRITICAL ROOT ZONE OF ANY PROTECTED TREE. EQUIPMENT CLEANING LIQUID DISPOSAL, NO EQUIPMENT SHALL BE CLEANED OR OTHER LIQUIDS, INCLUDING, WITHOUT LIMITATION, PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, MORTAR OR SIMILAR MATERIALS DEPOSITED OR ALLOWED TO FLOW INTO THE CRITICAL ROOT ZONE OF A PROTECTED TREE.
2. **TREE ATTACHMENTS:** NO SIGNS, WIRES OR OTHER ATTACHMENTS, OTHER THAN THOSE OF A PROTECTIVE NATURE, SHALL BE ATTACHED TO ANY PROTECTED TREE.
3. **VEHICULAR TRAFFIC:** NO VEHICULAR AND/OR CONSTRUCTION EQUIPMENT TRAFFIC OR PARKING SHALL TAKE PLACE WITHIN THE CRITICAL ROOT ZONE OF ANY PROTECTED TREE OTHER THAN ON EXISTING STREET PAVEMENT. THIS RESTRICTION DOES NOT APPLY TO SINGLE INCIDENT ACCESS WITHIN THE CRITICAL ROOT ZONE FOR PURPOSES OF ESTABLISHING THE BUILDING PAD AND ASSOCIATED LOT GRADING, VEHICULAR TRAFFIC NECESSARY FOR ROUTINE UTILITY MAINTENANCE, EMERGENCY RESTORATION OF UTILITY SERVICE, OR ROUTINE MOWING OPERATIONS.
4. **GRADE CHANGES:** PAVING WITHIN THE DRIP LINE SHALL BE APPROVED PRIOR TO CONSTRUCTION BY THE OWNER'S REPRESENTATIVE.
5. **IMPERVIOUS PAVING:** NO PAVING WITH ASPHALT, CONCRETE OR OTHER IMPERVIOUS MATERIAL SHALL BE PLACED WITHIN THE LIMITS OF THE CRITICAL ROOT ZONE.
6. **ROOT PRUNING:** ALL ROOTS ONE INCHES OR LARGER IN DIAMETER WHICH ARE EXPOSED AS A RESULT OF TRENCHING OR OTHER EXCAVATION SHALL BE CUT OFF SQUARE WITH A SHARP MEDIUM TOOTH SAW AND COVERED WITH PRUNING COMPOUND WITHIN TWO HOURS OF INITIAL EXPOSURE.

TREE PROTECTION NOTES

- A. THE CONTRACTOR SHALL PROTECT THE TREE AND PLANT PROTECTION ZONE AT ALL TIMES FROM COMPACTION OF THE SOIL, DAMAGE OF ANY KIND TO TRUNKS, BARK, BRANCHES, LEAVES AND ROOTS OF ALL PLANTS; AND CONTAMINATION OF THE SOIL, BARK OR LEAVES WITH CONSTRUCTION MATERIALS, DEBRIS, SILT, FUELS, OILS, AND ANY CHEMICALS SUBSTANCE. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY SPILLS, COMPACTION OR DAMAGE AND TAKE CORRECTIVE ACTION IMMEDIATELY USING METHODS APPROVED BY THE OWNER'S REPRESENTATIVE.
- B. THE CONTRACTOR SHALL NOT ENGAGE IN ANY CONSTRUCTION ACTIVITY WITHIN THE TREE AND PLANT PROTECTION ZONE WITHOUT THE APPROVAL OF THE OWNER'S REPRESENTATIVE, INCLUDING: OPERATING, MOVING OR STORING EQUIPMENT; STORING SUPPLIES OR MATERIALS; LOCATING TEMPORARY FACILITIES INCLUDING TRAILERS OR PORTABLE TOILETS AND SHALL NOT PERMIT EMPLOYEES TO TRAVERSE THE AREA TO ACCESS ADJACENT AREAS OF THE PROJECT OR USE THE AREA FOR LUNCH OR ANY OTHER WORK BREAKS, PERMITTED ACTIVITY, IF ANY, WITHIN THE TREE AND PLANT PROTECTION AREA MAYBE INDICATED ON THE DRAWINGS ALONG WITH ANY REQUIRED REMEDIAL ACTIVITY AS LISTED BELOW.
- C. TREE BRANCHES THAT INTERFERE WITH THE CONSTRUCTION MAY BE TIED BACK OR PRUNED TO CLEAR ONLY TO THE POINT NECESSARY TO COMPLETE THE WORK. OTHER BRANCHES SHALL ONLY BE REMOVED WHEN SPECIFICALLY INDICATED BY THE OWNER'S REPRESENTATIVE. TYING BACK OR TRIMMING OF ALL BRANCHES AND THE CUTTING OF ROOTS SHALL BE IN ACCORDANCE WITH ACCEPTED ARBORICULTURAL PRACTICES (ANSI A300, PART 6) AND BE PERFORMED UNDER SUPERVISION OF AN ARBORIST.
- D. TRUNK PROTECTION ONLY WHERE FENCE IS NOT CONSTRUCTIBLE. PROTECT THE TRUNK OF EACH TREE TO REMAIN BY COVERING IT WITH A RING OF 8 FOOT LONG 2 INCH X 6 - INCH PLANKS LOOSELY BANGED ONTO THE TREE WITH 3 STEEL BANDS. STAPLE THE BANDS TO THE PLANKS AS NECESSARY TO HOLD THEM SECURELY IN PLACE THROUGHOUT THE CONSTRUCTION PERIOD. REMOVE TRUNK PROTECTION UPON SUBSTANTIAL COMPLETION.

TREE TRENCHING AND TUNNELING



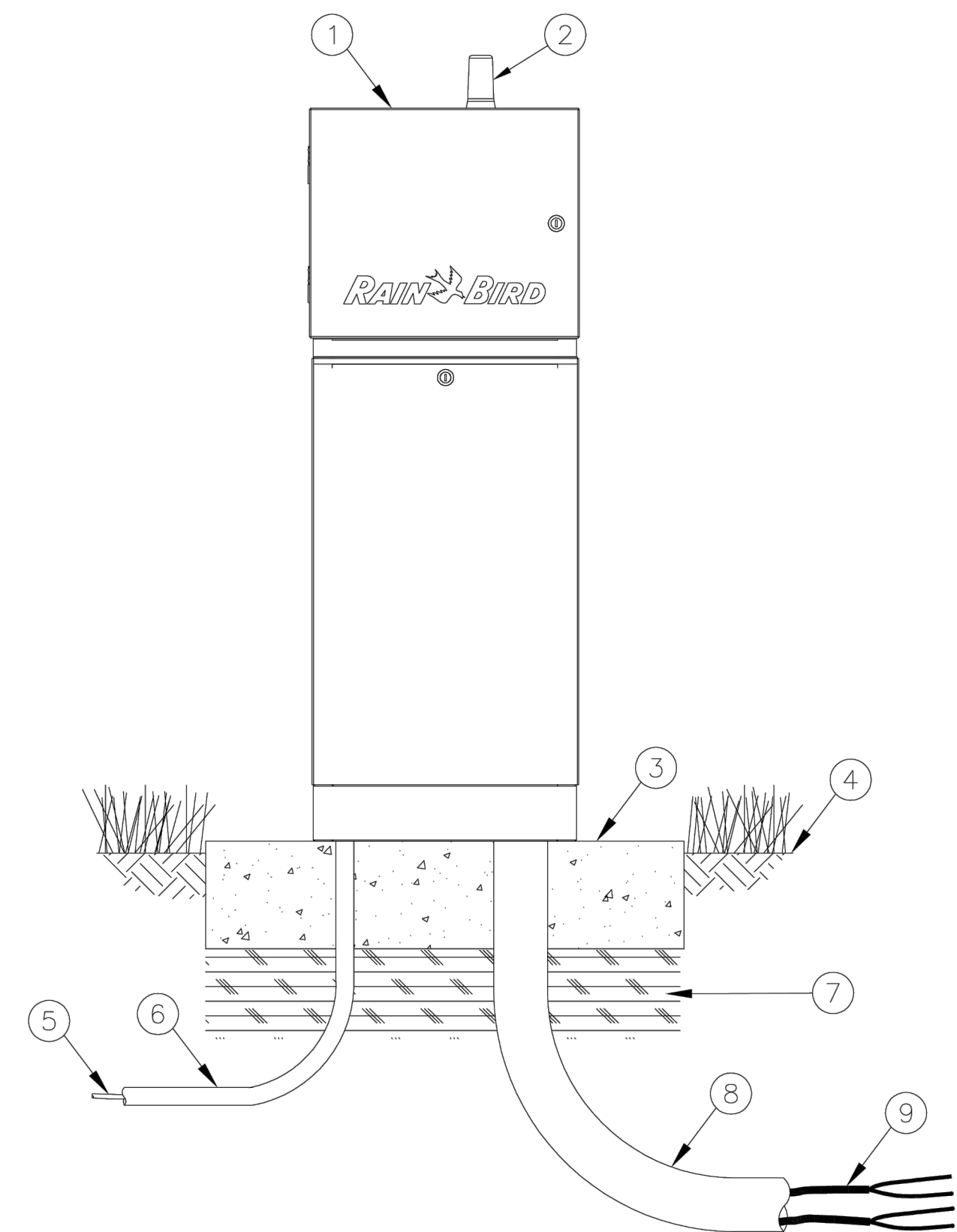
TREE TRENCHING AND TUNNELING NOTES

- A. IN THE EVENT THAT CONSTRUCTION ACTIVITY IS UNAVOIDABLE WITHIN THE TREE AND PLANT PROTECTION AREA, NOTIFY THE OWNER'S REPRESENTATIVE AND SUBMIT A DETAILED WRITTEN PLAN OF ACTION FOR APPROVAL. THE PLAN SHALL INCLUDE: A STATEMENT DETAILING THE REASON FOR THE ACTIVITY INCLUDING WHY OTHER AREAS ARE NOT SUITED; A DESCRIPTION OF THE PROPOSED ACTIVITY, THE TIME PERIOD FOR THE ACTIVITY, AND A LIST OF REMEDIAL ACTIONS THAT WILL REDUCE THE IMPACT ON THE TREE AND PLANT PROTECTION AREA FROM THE ACTIVITY. REMEDIAL ACTIONS SHALL INCLUDE BUT SHALL NOT BE LIMITED TO THE FOLLOWING: IN GENERAL, DEMOLITION AND EXCAVATION WITHIN THE DRIP LINE OF TREES AND SHRUBS SHALL PROCEED WITH EXTREME CARE EITHER BY THE USE OF HAND TOOLS, DIRECTIONAL BORING AND OR AIR KNIFE EXCAVATION WHERE INDICATED OR WITH OTHER LOW IMPACT EQUIPMENT THAT WILL NOT CAUSE DAMAGE TO THE TREE, ROOTS OR SOIL.
- B. WHEN ENCOUNTERED, EXPOSED ROOTS, 1 INCHES AND LARGER IN DIAMETER SHALL BE WORKED AROUND IN A MANNER THAT DOES NOT BREAK THE OUTER LAYER OF THE ROOT SURFACE (BARK). THESE ROOTS SHALL BE COVERED IN WOOD CHIPS AND SHALL BE MAINTAINED ABOVE PERMANENT WILT POINT AT ALL TIMES. ROOTS ONE INCH AND LARGER IN DIAMETER SHALL NOT BE CUT WITH OUT THE APPROVAL OF THE OWNER'S REPRESENTATIVE. EXCAVATION SHALL BE TUNNELED UNDER THESE ROOTS WITHOUT CUTTING THEM. IN THE AREAS WHERE ROOTS ARE ENCOUNTERED, WORK SHALL BE PERFORMED AND SCHEDULED TO CLOSE EXCAVATIONS AS QUICKLY AS POSSIBLE OVER EXPOSED ROOTS.

A4 TYPICAL TREE PROTECTION

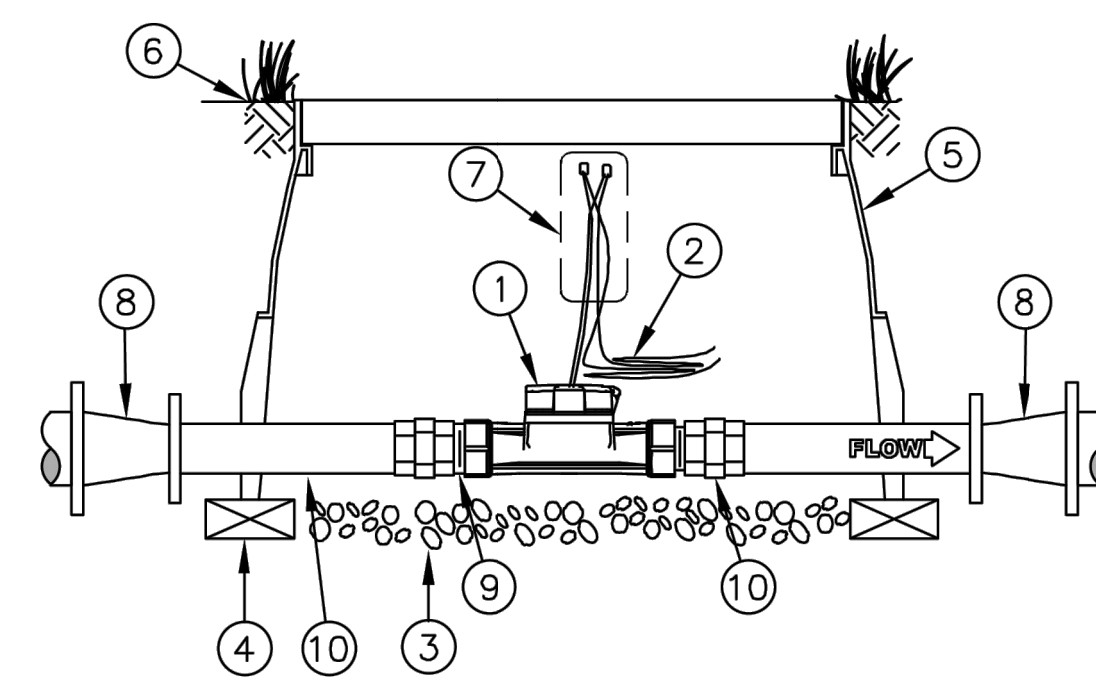
1/2" = 1'-0"

PLANT DET 6_REV



- ① TWO-WIRE DECODER CONTROLLER:
RAIN BIRD IQ ESP-LXD SATELLITE TWO-WIRE DECODER CONTROLLER WITH IQ NCC GPRS CARTRIDGE IN LXMM METAL CABINET AND LXMPED METAL PEDESTAL. INSTALL CONTROLLER, CABINET AND PEDESTAL PER MANUFACTURER'S RECOMMENDATIONS.
- ② CELLULAR ANTENNA:
RAIN BIRD IQEXTANGP GPRS/CELLULAR EXTERNAL ANTENNA (FOR USE WITH LXMM METAL CABINET ONLY)
- ③ CONCRETE PAD: 6-INCH MINIMUM THICKNESS
- ④ FINISH GRADE
- ⑤ POWER SUPPLY WIRE
- ⑥ 1-INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR POWER SUPPLY
- ⑦ COMPACTED SUBGRADE
- ⑧ 3-INCH SCH 40 PVC CONDUIT, FITTINGS AND SWEEP ELL FOR TWO WIRE CABLE
- ⑨ MAXICABLE TWO-WIRE PATH TO DECODERS
USE A DIFFERENT CABLE JACKET COLOR FOR EACH PATH

NOTES:
1. IQ ESP-LXD CONTROLLER COMES WITH 50 STATIONS AVAILABLE. TWO ADDITIONAL 75 STATION ESPLXD-SUM75 MODULES MAY BE ADDED TO EXPAND THE CONTROLLER UP TO 200 TOTAL STATIONS.
2. PROVIDE PROPER GROUNDING COMPONENTS TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS.
3. OWNER IS RESPONSIBLE FOR PROVIDING CELLULAR SERVICE CAPABLE OF INTERFACING WITH NCC GPRS CARTRIDGE. INSTALL CONTROLLER IN A LOCATION TO MAXIMIZE ANTENNA RECEPTION. CONDUCT A SURVEY OF THE SITE TO ASSURE A VIABLE AND CONSISTENT CELLULAR CONNECTION BEFORE INSTALLING CONTROLLER.

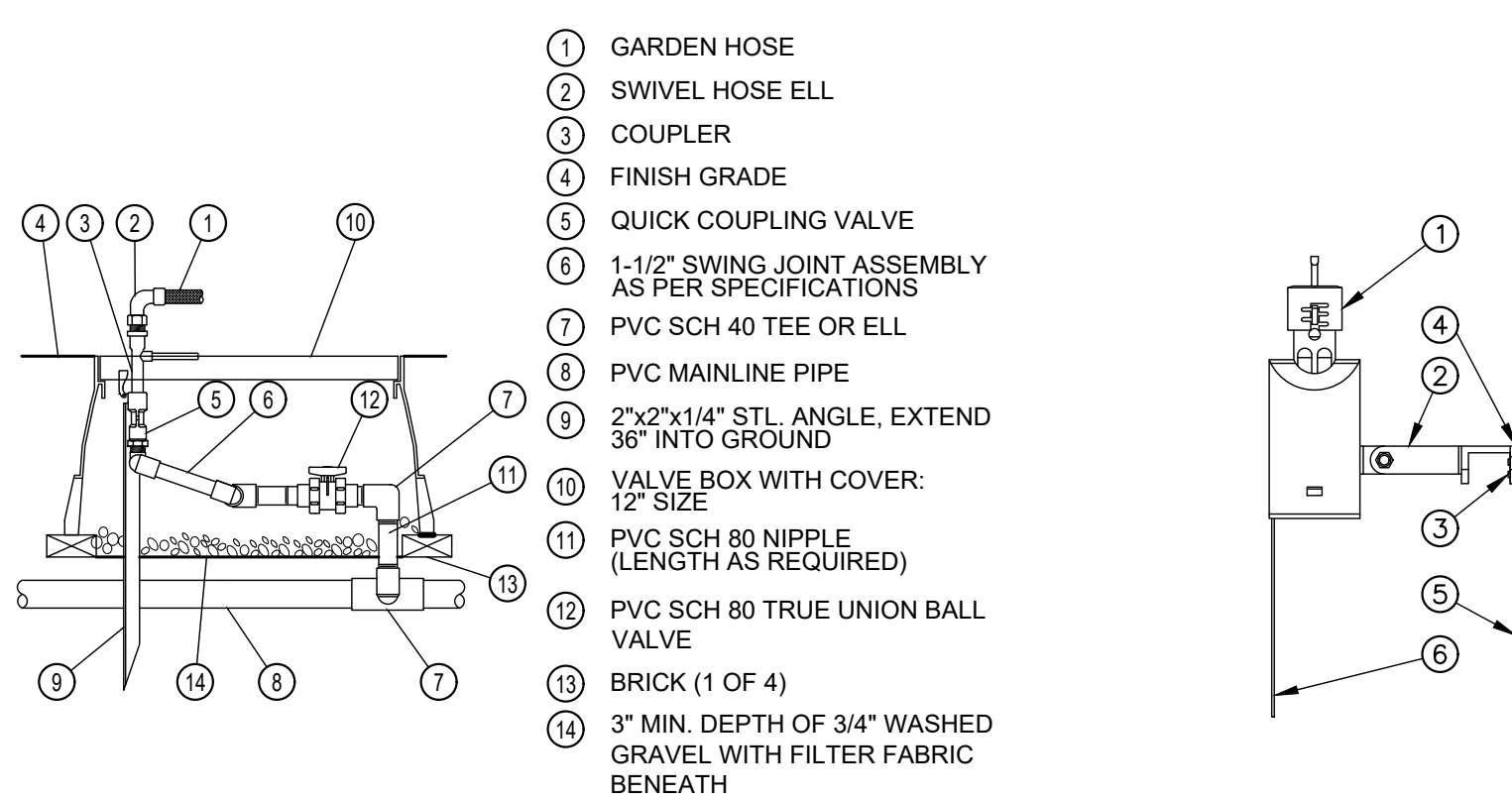


- ① RAIN BIRD UFS SERIES FLOW SENSOR
- ② 36" LENGTH OF COILED CONTROL WIRE
- ③ 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- ④ BRICK (1 OF 4)
- ⑤ STANDARD VALVE BOX WITH COVER
- ⑥ FINISH GRADE
- ⑦ SEE FLOW SENSOR WIRING DETAIL FOR WIRING DIAGRAM
- ⑧ CONCENTRIC REDUCER
- ⑨ PVC CLOSE NIPPLE (1 OF 2)
- ⑩ PVC UNION (1 OF 2)

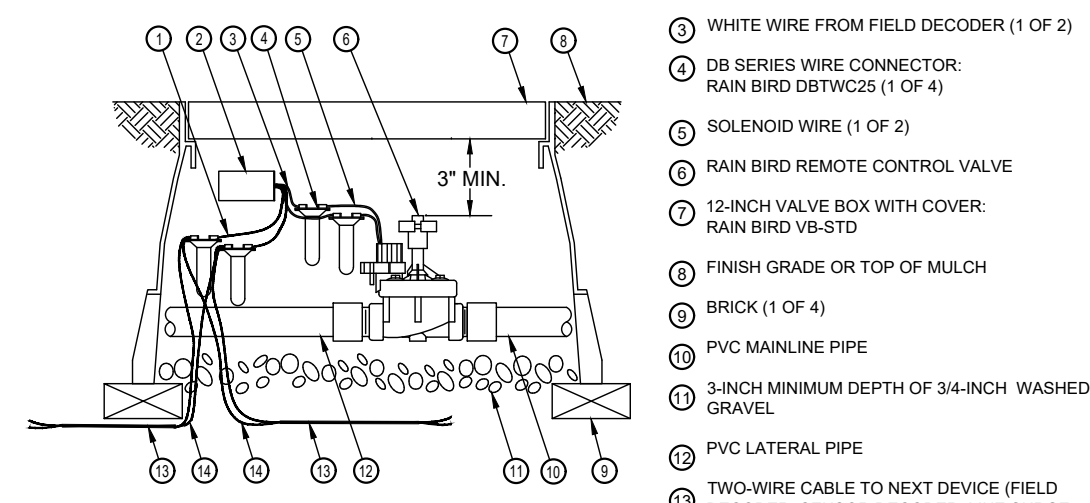
NOTES:
1. THE UFS CAN BE INSTALLED IN A VERTICAL POSITION WITH THE FLOW ARROW POINTING UPWARDS.
2. THE UFS SIZE MUST BE EQUAL TO OR SMALLER THAN THE INCOMING PIPE SIZE.
3. THE UFS DOES NOT REQUIRE STRAIGHT PIPE BEFORE OR AFTER SENSOR PLACEMENT.
4. NO BRICKS REQUIRED FOR RAIN BIRD VB-SERIES VALVE BOXES ONLY.

MODEL	SIZE	K	OFFSET	FLOW RANGE
UFS100	1"	0.25	0	0.3 - 50 GPM
UFS150	1.5"	1.70	-0.316	0.5 - 110 GPM
UFS200	2"	2.849	0.1439	1.0 - 200 GPM

C1 PEDESTAL CONTROLLER



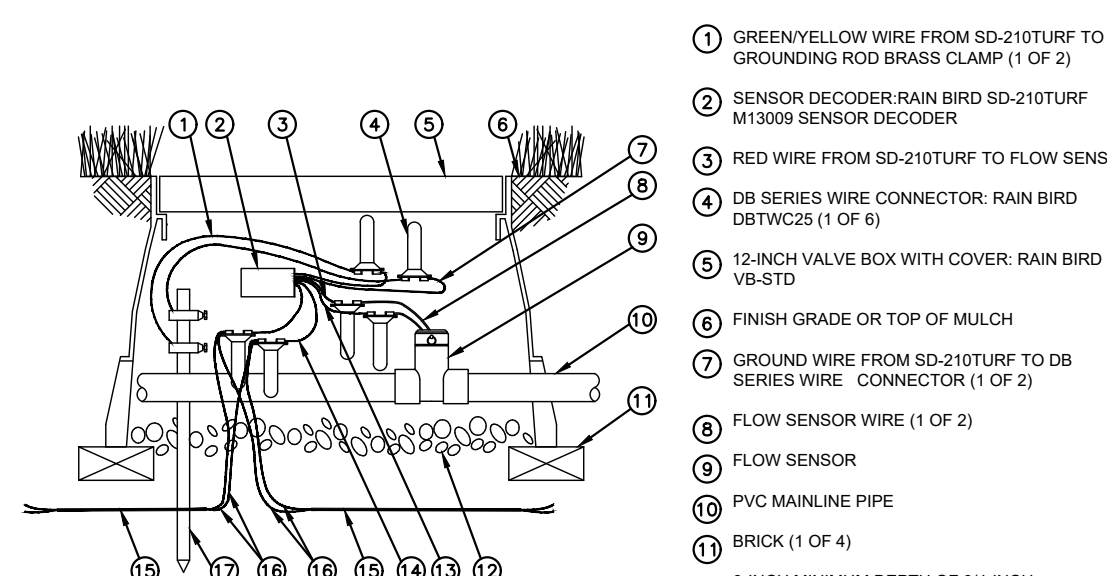
- ① WALL MOUNTED WIRELESS RAIN/FREEZE SENSOR. SEE PLAN FOR LOCATION
 - ② ADJUSTABLE MOUNTING BRACKET
 - ③ STAINLESS STEEL SCREWS FOR MOUNTING
 - ④ MOUNT TO BUILDING, MIN. 12' HEIGHT
 - ⑤ BUILDING
 - ⑥ ANTENNA
- NOTE:
MOUNT SENSOR VERTICALLY. AVOID PLACEMENT UNDER EYE OR TREE CANOPY. SEE PLAN FOR LOCATIONS



- ① BLUE WIRE FROM FIELD DECODER (1 OF 2)
- ② FIELD DECODER:
RAIN BIRD FD-10 TURF M3011 DECODER OR FD-10TURF M3008 DECODER
- ③ WHITE WIRE FROM FIELD DECODER (1 OF 2)
- ④ DB SERIES WIRE CONNECTOR:
RAIN BIRD DB-10 (1 OF 2)
- ⑤ SOLENOID WIRE (1 OF 2)
- ⑥ RAIN BIRD REMOTE CONTROL VALVE
- ⑦ 12-INCH VALVE BOX WITH COVER:
RAIN BIRD VB-STD
- ⑧ FINISH GRADE OR TOP OF MULCH
- ⑨ BRICK (1 OF 4)
- ⑩ PVC MAINLINE PIPE
- ⑪ 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- ⑫ PVC LATERAL PIPE
- ⑬ TWO-WIRE CABLE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, LINE SURGE PROTECTOR OR ESP-LXD CONTROLLER)
- ⑭ COMMUNICATION WIRE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, LINE SURGE PROTECTOR OR ESP-LXD CONTROLLER)
- ⑮ GROUNDING ROD

NOTES:
1. MAXIMUM LENGTH OF SECONDARY WIRE PATH (14 AWG) FROM FIELD DECODER TO RELAY IS 450 FEET.
2. PLACE 3 FEET OF EXTRA WIRE IN VALVE BOX FOR EASIER SERVICING.

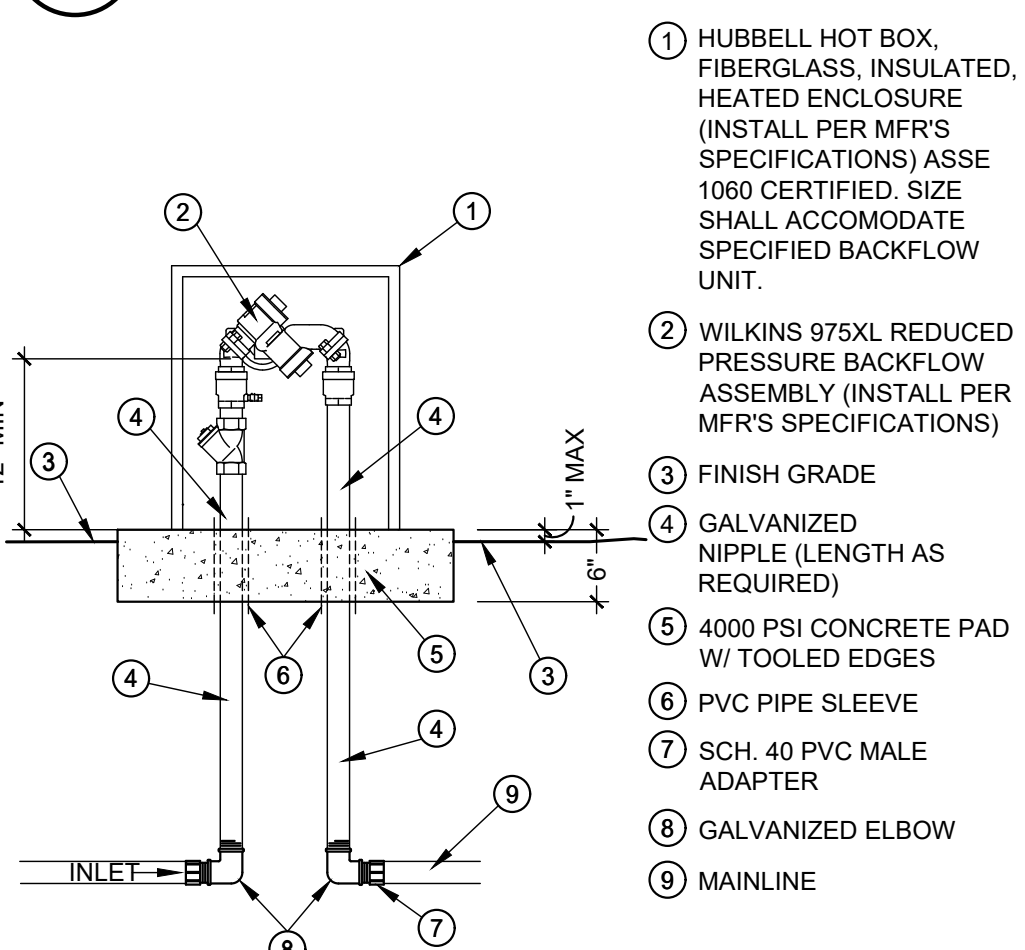
C4 FLOW SENSOR



- ① GREEN/YELLOW WIRE FROM SD-210TURF TO GROUNDING ROD BRASS CLAMP (1 OF 2)
- ② SENSOR DECODER RAIN BIRD SD-210TURF M3008 SENSOR DECODER
- ③ RED WIRE FROM SD-210TURF TO FLOW SENSOR
- ④ DB SERIES WIRE CONNECTOR RAIN BIRD DB-10 (1 OF 2)
- ⑤ 12-INCH VALVE BOX WITH COVER RAIN BIRD VB-STD
- ⑥ FINISH GRADE OR TOP OF MULCH
- ⑦ GROUND WIRE FROM SD-210TURF TO DB SERIES WIRE CONNECTOR (1 OF 2)
- ⑧ FLOW SENSOR WIRE (1 OF 2)
- ⑨ FLOW SENSOR
- ⑩ PVC MAINLINE PIPE
- ⑪ BRICK (1 OF 4)
- ⑫ 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
- ⑬ BLACK WIRE FROM SD-210TURF TO FLOW SENSOR
- ⑭ BLUE WIRE FROM SD-210TURF (1 OF 2)
- ⑮ TWO-WIRE CABLE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, LINE SURGE PROTECTOR OR ESP-LXD CONTROLLER)
- ⑯ COMMUNICATION WIRE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER, LINE SURGE PROTECTOR OR ESP-LXD CONTROLLER)
- ⑰ GROUNDING ROD

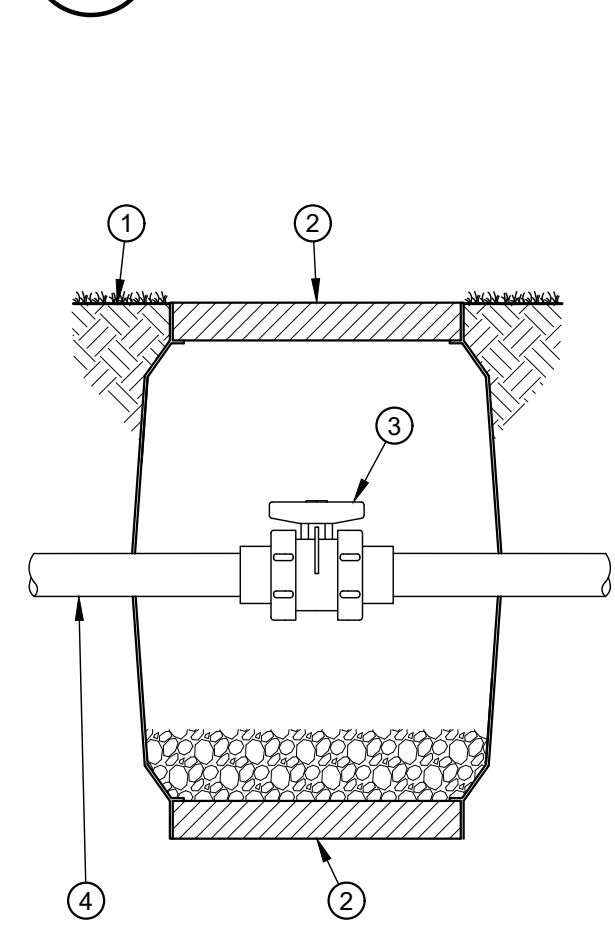
NOTES:
1. MAXIMUM LENGTH OF SECONDARY WIRE PATH (14 AWG) FROM DECODER TO RELAY IS 450 FEET.
2. PLACE 3 FEET OF EXTRA WIRE IN VALVE BOX FOR EASIER SERVICING.
3. IN A SITE CONTROL DECODER SYSTEM A PULSE TRANSMITTER (PT322) SHOULD BE INSTALLED BETWEEN THE SENSOR DECODER AND THE FLOW SENSOR. THIS IS NOT NEEDED IN AN ESP-LXD CONTROLLER SYSTEM.
4. GROUNDING SHOULD BE TO 10 OHMS OR LESS.

B1 QUICK COUPLER



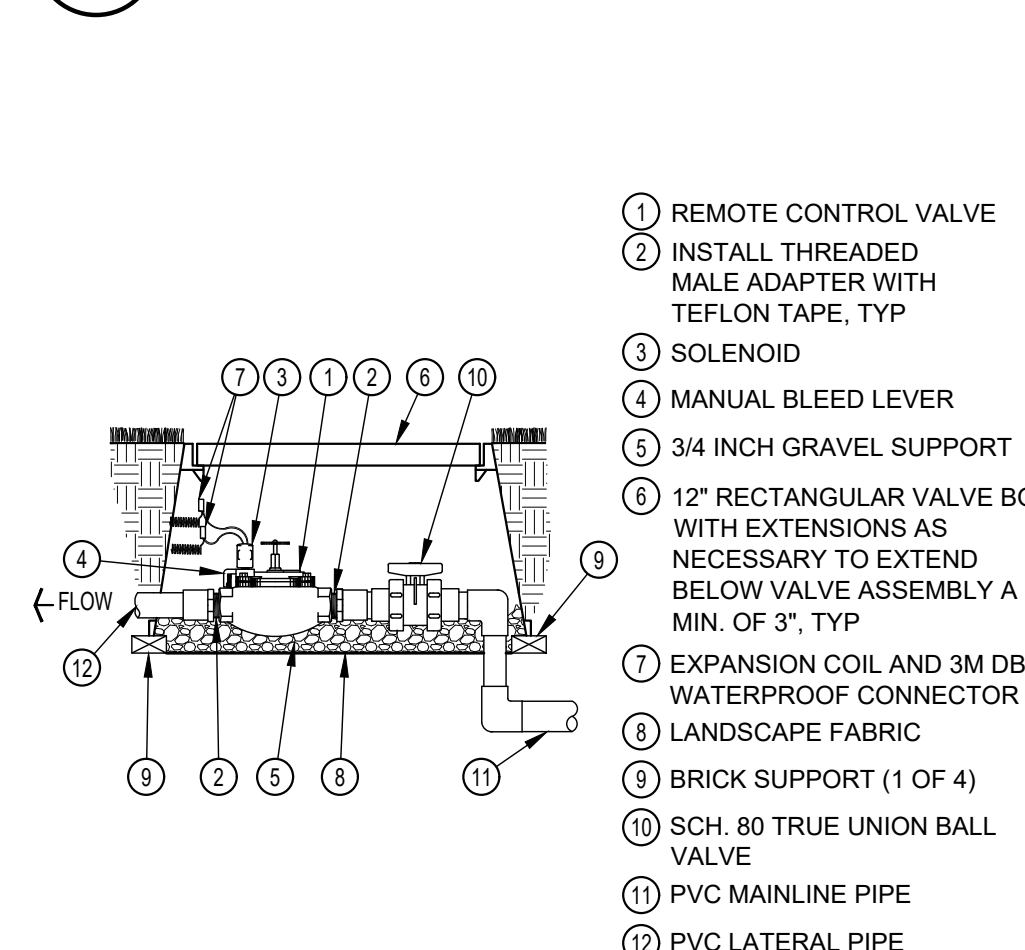
- ① HUBBELL HOT BOX, FIBERGLASS, INSULATED, HEATED ENCLOSURE (INSTALL PER MFR'S SPECIFICATIONS) ASSE 1060 CERTIFIED, SIZE SHALL ACCOMMODATE SPECIFIED BACKFLOW UNIT.
- ② WILKINS 975XL REDUCED PRESSURE BACKFLOW ASSEMBLY (INSTALL PER MFR'S SPECIFICATIONS)
- ③ FINISH GRADE
- ④ GALVANIZED NIPPLE LENGTH AS REQUIRED
- ⑤ 4000 PSI CONCRETE PAD W/ TOOLED EDGES
- ⑥ PVC PIPE SLEEVE
- ⑦ SCH. 40 PVC MALE ADAPTER
- ⑧ GALVANIZED ELBOW
- ⑨ MAINLINE

B2 RAIN / FREEZE SENSOR



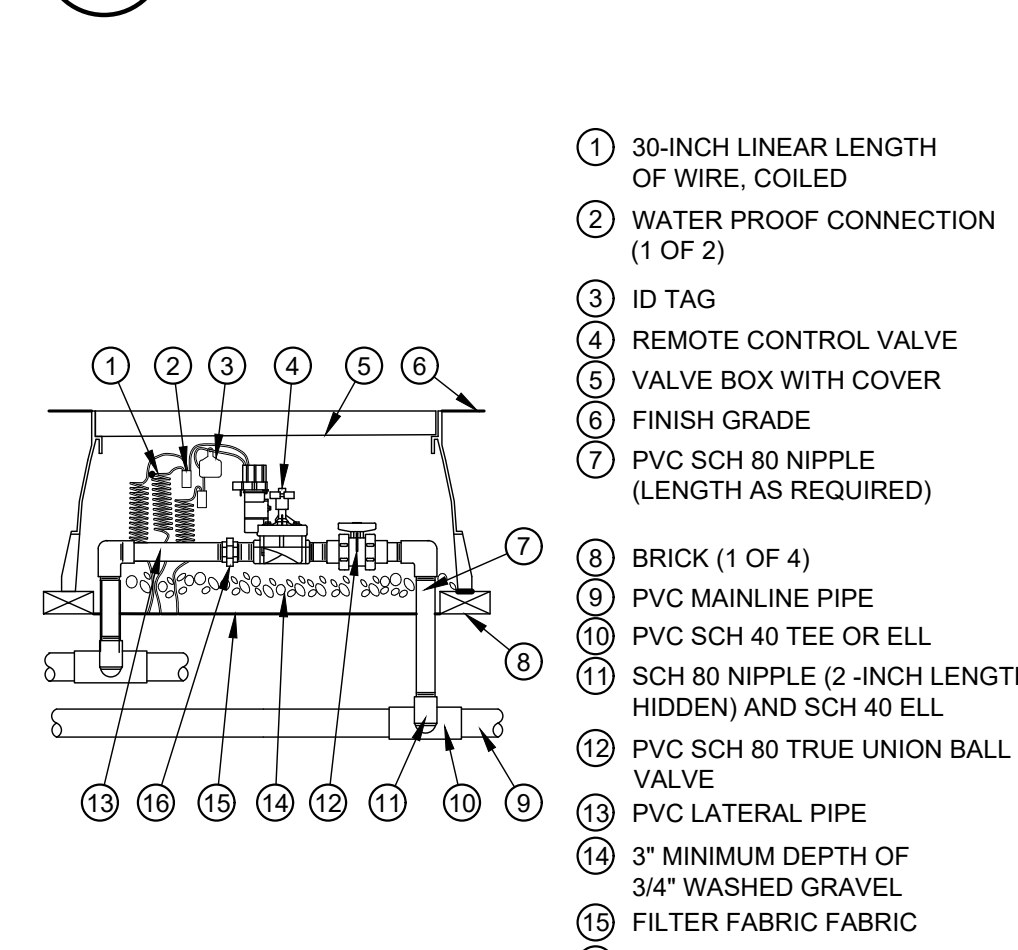
- ① FINISH GRADE
 - ② COMMERCIAL GRADE VALVE BOX, 4" DEPTH WASHED GRAVEL
 - ③ SCH 80 TRUE UNION BALL VALVE
 - ④ MAINLINE PIPE
- NOTE:
USE SCREWS TO ATTACH VALVE BOXES TOGETHER AND DRILL HOLES IN BOTTOM LID FOR DRAINAGE

B3 VALVE DECODER

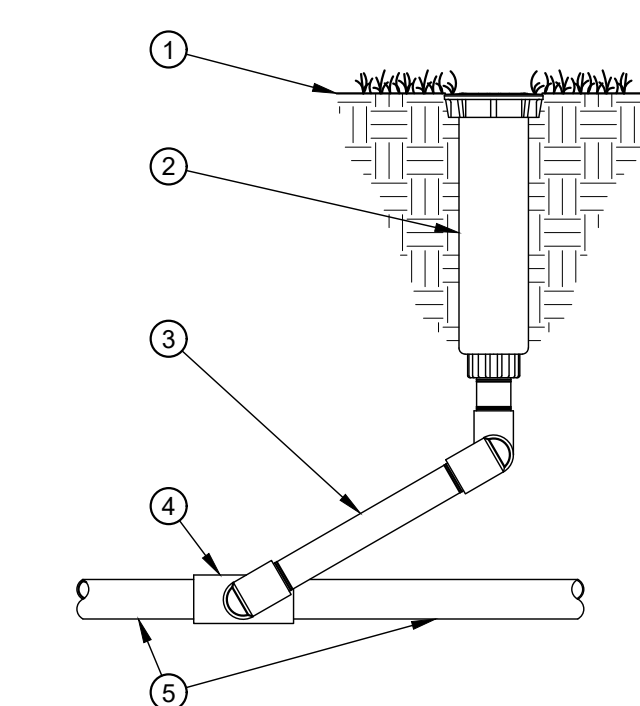


- ① REMOTE CONTROL VALVE
- ② INSTALL THREADED MALE ADAPTER WITH TEFLON TAPE, TYP
- ③ SOLENOID
- ④ MANUAL BLEED LEVER
- ⑤ 3/4 INCH GRAVEL SUPPORT
- ⑥ 12" RECTANGULAR VALVE BOX WITH EXTENSIONS AS NECESSARY TO EXTEND BELOW VALVE ASSEMBLY A MIN. OF 3", TYP
- ⑦ EXPANSION COIL AND 3M DBY WATERPROOF CONNECTOR
- ⑧ LANDSCAPE FABRIC
- ⑨ BRICK SUPPORT (1 OF 4)
- ⑩ SCH. 80 TRUE UNION BALL VALVE
- ⑪ PVC MAINLINE PIPE
- ⑫ PVC LATERAL PIPE

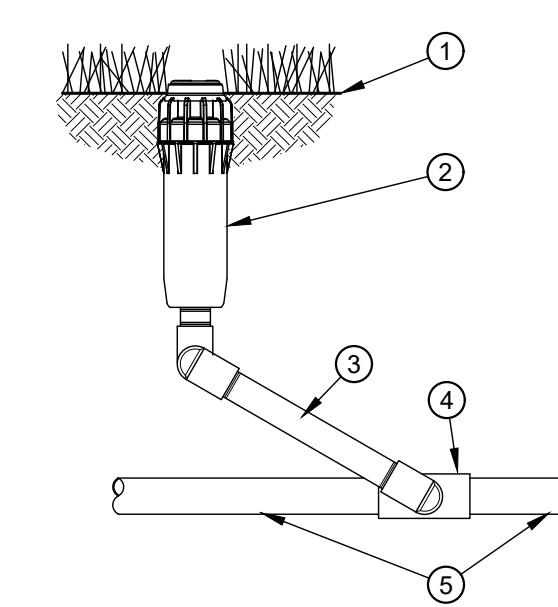
B4 FLOW SENSOR DECODER



- ① 30-INCH LINEAR LENGTH OF WIRE, COILED
- ② WATER PROOF CONNECTION (1 OF 2)
- ③ ID TAG
- ④ REMOTE CONTROL VALVE
- ⑤ VALVE BOX WITH COVER
- ⑥ FINISH GRADE
- ⑦ PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
- ⑧ BRICK (1 OF 4)
- ⑨ PVC MAINLINE PIPE
- ⑩ PVC SCH 40 TEE OR ELL
- ⑪ SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND SCH 40 ELL
- ⑫ PVC SCH 80 TRUE UNION BALL VALVE
- ⑬ PVC LATERAL PIPE
- ⑭ 3" MINIMUM DEPTH OF 3/4" WASHED GRAVEL
- ⑮ FILTER FABRIC FABRIC
- ⑯ PVC SCH 80 TRUE UNION



- ① FINISH GRADE
- ② SPRAY HEAD
- ③ SWING JOINT
- ④ PVC TEE
- ⑤ PVC LATERAL PIPE



- ① FINISH GRADE
- ② ROTOR POP-UP HEAD
- ③ SWING JOINT
- ④ PVC SCH 40 TEE OR ELL
- ⑤ LATERAL PIPE

A1 BACKFLOW

3/4"x1'-0" SECTION

A2 ISO VALVE

1-1/2"x1'-0"

A3 MASTER VALVE

1"x1'-0"

A4 ZONE VALVE

1/2"x1'-0" SECTION

A5 POP-UP SPRAY HEAD

1-1/2"x1'-0"

A6 ROTOR

3"x1'-0"

SITE LIGHTING FIXTURE SCHEDULE							
TYPE	MANUFACTURER	MODEL	MOUNTING	INPUT WATTS	VOLTAGE	POLE TYPE	DESCRIPTION
AA	LITHONIA	DSX1 LED P7 40K 80CRI TSW MVOLT [FINISH] DM28AS	POLE	369 W	208V	RTS-25-5-9B	DOUBLE HEAD POLE MOUNTED PARKING LOT LUMINAIRE WITH TYPE FIVE DISTRIBUTION WITH 25' POLE.
BB	LITHONIA	DSX1 LED P6 40K 80CRI T5M MVOLT [FINISH] DM28AS	POLE	331 W	208V	RTS-25-5-9B	DOUBLE HEAD POLE MOUNTED PARKING LOT LUMINAIRE WITH TYPE FIVE DISTRIBUTION WITH 25' POLE.
CC	LITHONIA	DSX1 LED P6 40K 80CRI T4M MVOLT [FINISH] DM19AS	POLE	165 W	208V	RTS-25-5-9B	SINGLE HEAD POLE MOUNTED PARKING LOT LUMINAIRE WITH TYPE FIVE DISTRIBUTION WITH 25' POLE.

SPORTS LIGHT POLE FIXTURE SCHEDULE						
POLE ID	FIXTURE MANUFACTURER (SEE NOTE F)	LUMINAIRE TYPE	SOURCE	VOLTAGE/WATTAGE	MOUNTING HEIGHT	FIXTURE QTY.
F1-F2	MUSCO	TLC-LED-1500	LED 5700K 75 CRI	208V/1410W	120'	14
	MUSCO	TLC-LED-1500	LED 5700K 75 CRI	208V/1410W	120'	1
	MUSCO	TLC-RGBW	LED 5700K 75 CRI	208V/1410W	110'	3
F3-F4	MUSCO	TLC-LED-1500	LED 5700K 75 CRI	208V/1410W	130'	18
	MUSCO	TLC-LED-1500	LED 5700K 75 CRI	208V/1410W	130'	1
	MUSCO	TLC-RGBW	LED 5700K 75 CRI	208V/1410W	120'	3

- NOTES:
 A. REFER TO SPORTS LIGHTING MANUFACTURER FOR ADDITIONAL INFORMATION. CONFIRM ACTUAL LOADS BASED ON MANUFACTURERS SUBMITTED PRODUCT DATA. ADJUST CIRCUITRY AS REQUIRED.
 B. COORDINATE EXACT CONTROL AND POWER REQUIREMENTS WITH SPORTS LIGHTING PROVIDER.
 C. CONFIRM ACTUAL QUANTITY OF FIXTURES PER POLE, PER CONTROL ZONE WITH MANUFACTURERS SUBMITTED SHOP DRAWINGS.
 D. REFER TO MANUFACTURER FOR POLE AND CONTROL BOX LOCATIONS.
 E. COORDINATE EXACT LOCATIONS WITH LIGHTING MANUFACTURER, ARCHITECT AND CIVIL UTILITIES.
 F. SEE SPECIFICATIONS FOR OTHER APPROVED EQUALS AND MANUFACTURER APPROVED BY OWNER AND ENGINEER.
 G. COORDINATE SPORTS LIGHTING POLE BASE REQUIREMENTS WITH SPORTS LIGHTING MANUFACTURER.
 H. CONTRACTOR TO COORDINATE WITH SPORTS LIGHTING PROVIDER TO PROVIDE ALL REQUIRED DEVICES AND ACCESSORIES (INCLUDING WIRELESS ANTENNA).
 I. REFER TO SPORTS LIGHTING SPECIFICATIONS FOR MORE DETAILS.

D-Series Size 1 LED Area Luminaire

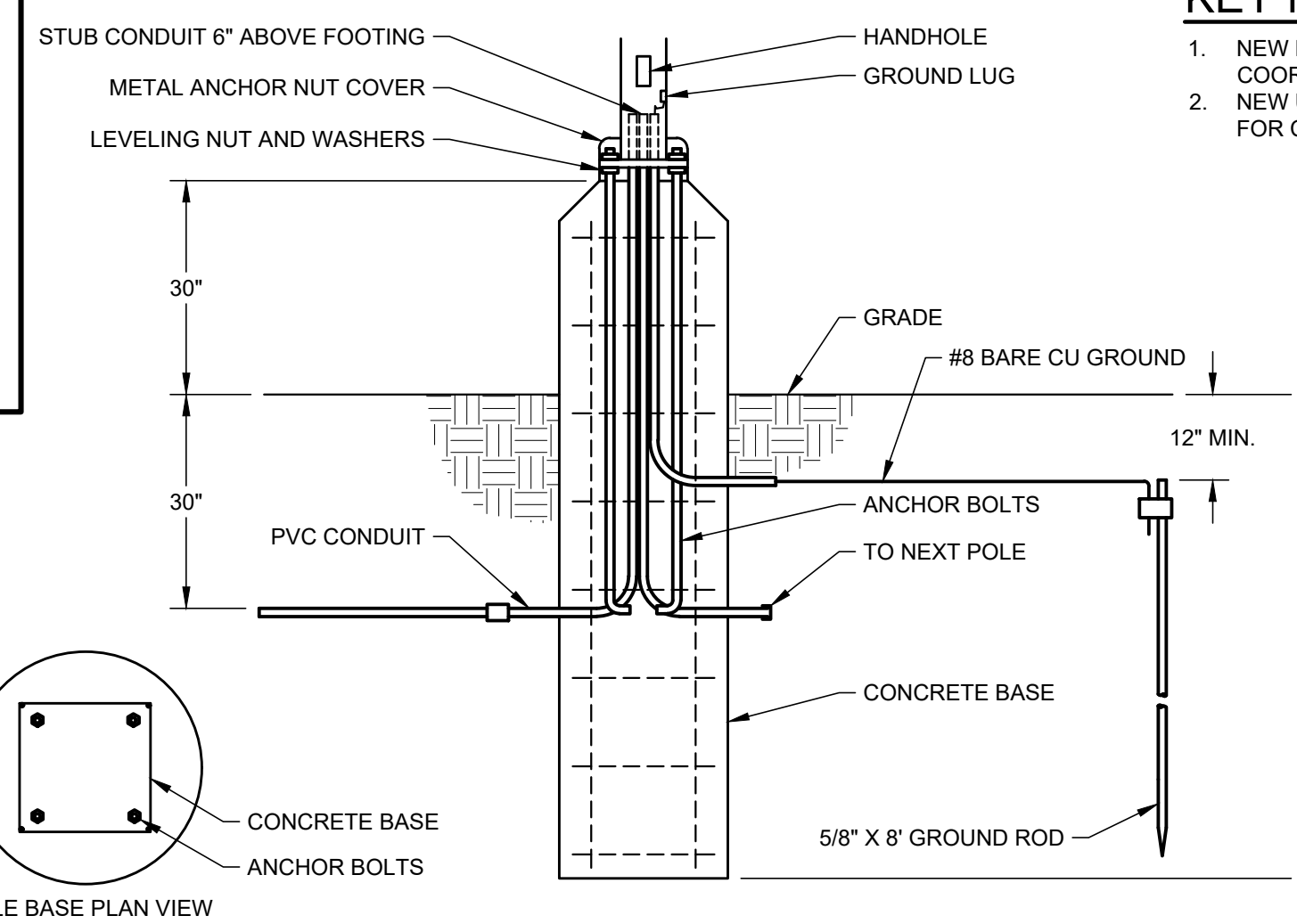
DSX1 LED Px 40K 80CRI T
 Stephenville ISD Stadium
 SA/SB/SC

Specifications
 EPA: 0.69 Ft (0.84m)
 Length: 32.71" (831mm)
 Width: 14.26" (362mm)
 Height H1: 7.86" (200mm)
 Height H2: 2.73" (69mm)
 Weight: 34 lbs (15kg)

Introduction
 The modern styling of the D-Series features a highly refined aesthetic that blends seamlessly with its environment. The D-Series offers the benefits of the latest in LED technology into a high performance, high efficacy, long-life luminaire.

The photometric performance results in sites with excellent uniformity, greater pole spacing and lower power density. D-Series outstanding photometry aids in reducing the number of poles required in area lighting applications with typical energy savings of 65% and expected service life of over 100,000 hours.

Ordering Information **EXAMPLE:** DSX1 LED P7 40K 70CRI T3M MVOLT SPA NLTAR2 PIRHN DBXBD
 DSX1LED P7/P6/P6 40K 80CRI TSW/TSM/T4M MVOLT xPA

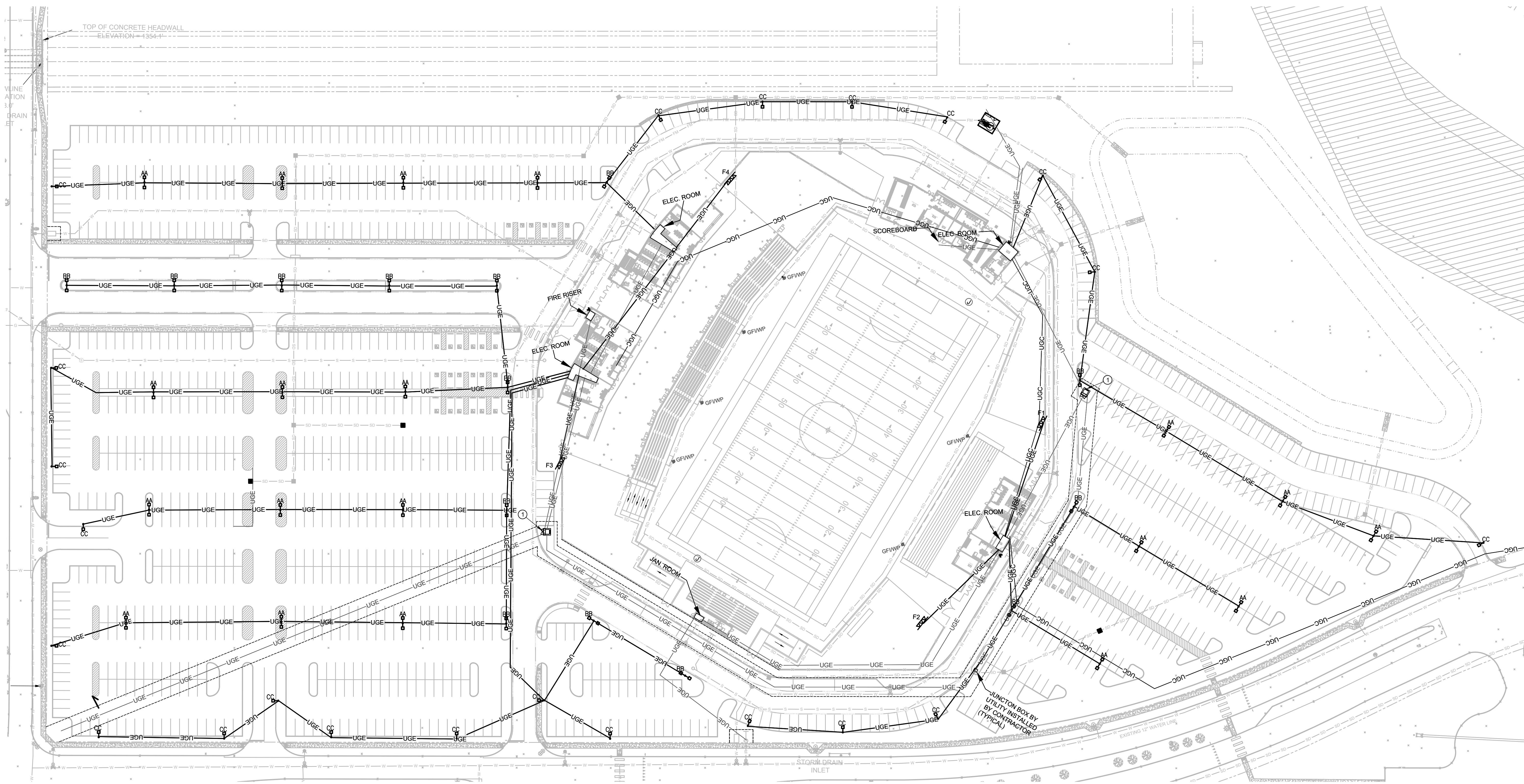


- GENERAL NOTES**
- COORDINATE WITH THE UTILITY SERVICE PROVIDERS FOR ALL REQUIREMENTS FOR DELIVERING POWER AND COMMUNICATION SERVICE TO THE NEW BUILDING.
 - REFER TO THE LIGHT FIXTURE SCHEDULE FOR FIXTURE TYPES. PROVIDE THE NUMBER OF FIXTURES AND ORIENTATION NOTED FOR POLE-MOUNTED FIXTURES. POLE EPA RATINGS SHALL BE FOR THE NUMBER OF FIXTURES SHOWN.
 - CONTRACTOR SHALL VERIFY LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY EARTH WORK.

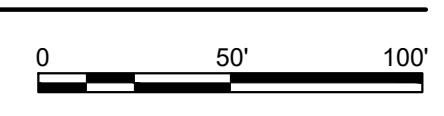
- KEY NOTES**
- NEW PAD MOUNT TRANSFORMER BY UTILITY PROVIDER (ONCOR). CONTRACTOR SHALL COORDINATE ASSOCIATED PAD REQUIREMENTS WITH UTILITY.
 - NEW UNDERGROUND SECONDARY SERVICE ENTRANCE. REFER TO RISER DIAGRAM FOR CONDUIT AND WIRE SIZES.

NOTES
 USE MANUFACTURER'S TEMPLATE TO POSITION ANCHOR BOLTS.

POLE BASE DETAIL
 NO SCALE



A1 ELECTRICAL SITE PLAN
 1"=30'-0"



D	E	F
A	B	C

DATE	DESCRIPTION
09/13/2023	Permit and Bid Package

A:\2022\40108.22\03_ELE\DWG_100-40108_SITE PLAN - SPORTS LIGHTING.DWG, 9/15/2023 7:41 AM, lgonas



CLIENT

Stephenville ISD

N Frey & N Wolfe Nursery Rd.
Stephenville, TX 76401

PROJECT NO.

40108.22

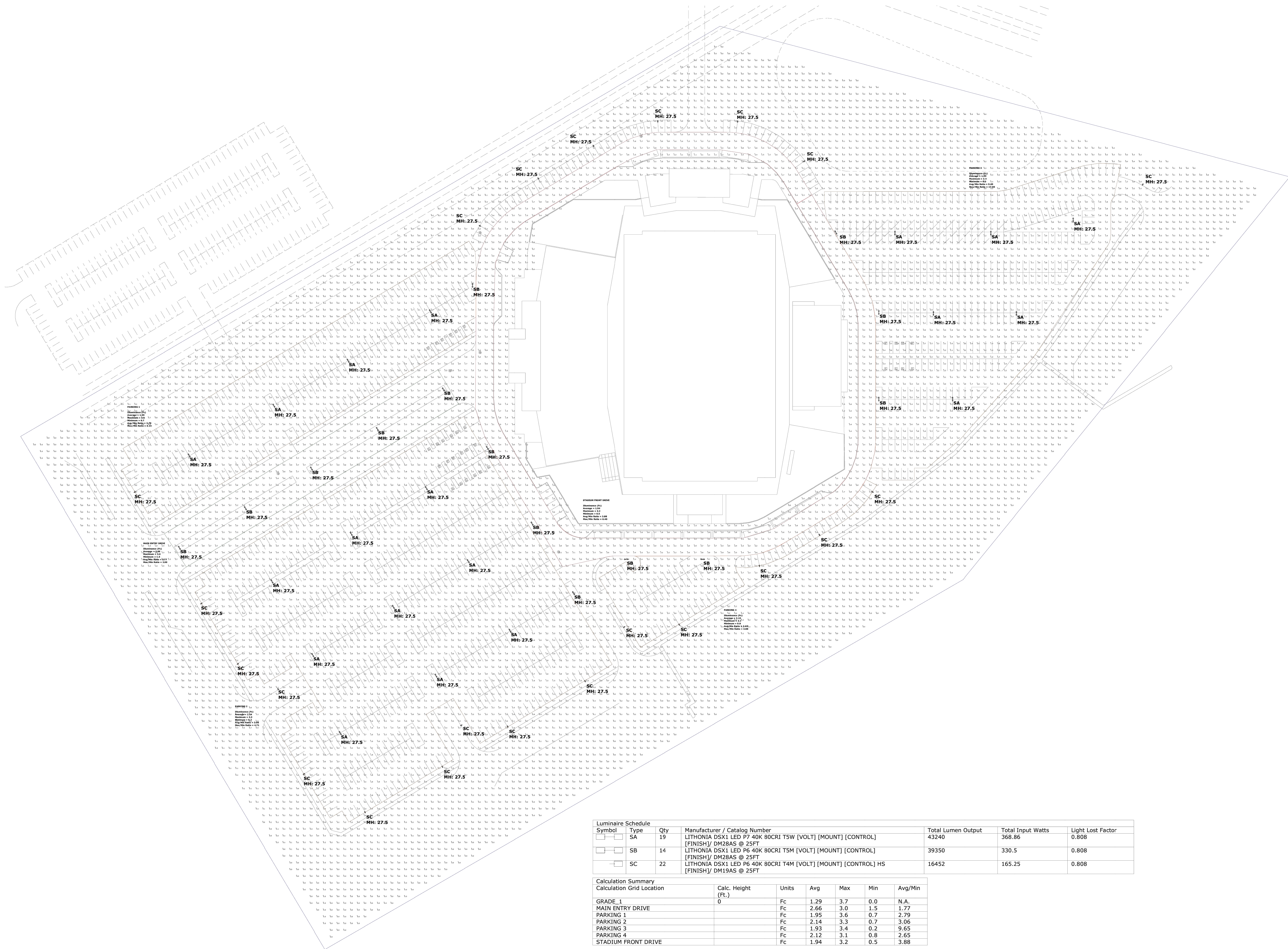
KEY PLAN

2 09/08/2023 Development Plan Re-Submittal

1 08/25/2023 Development Plan Submittal

DATE DESCRIPTION

THE INFORMATION INCLUDED ON THIS SHEET IS INCLUDED FOR REFERENCE PURPOSES ONLY. THE SEALING PROFESSIONAL FOR THIS CONSTRUCTION DRAWING SET TAKES NO OWNERSHIP OF THIS SHEET OR THE INFORMATION PROVIDED THEREON, BUT DOES AUTHORIZE IT TO BE PART OF THIS CONSTRUCTION DRAWING SET.



Symbol	Type	Qty	Manufacturer / Catalog Number	Total Lumen Output	Total Input Watts	Light Lost Factor
SA	19		LITHONIA DSX1 LED P7 40K 80CRI T5W [VOLT] [MOUNT] [CONTROL] [FINISH] DM28AS @ 25FT	43240	368.86	0.808
SB	14		LITHONIA DSX1 LED P6 40K 80CRI T5M [VOLT] [MOUNT] [CONTROL] [FINISH] DM28AS @ 25FT	39350	330.5	0.808
SC	22		LITHONIA DSX1 LED P6 40K 80CRI T4M [VOLT] [MOUNT] [CONTROL] HS [FINISH] DM19AS @ 25FT	16452	165.25	0.808

Calculation Grid Location	Calc. Height (Ft.)	Units	Avg	Max	Min	Avg/Min
GRADE 1	0	Fc	1.29	3.7	0.0	N.A.
MAIN ENTRY DRIVE		Fc	2.66	3.0	1.5	1.77
PARKING 1		Fc	1.95	3.6	0.7	2.79
PARKING 2		Fc	2.14	3.3	0.7	3.06
PARKING 3		Fc	1.93	3.4	0.2	9.65
PARKING 4		Fc	2.12	3.1	0.8	2.65
STADIUM FRONT DRIVE		Fc	1.94	3.2	0.5	3.88

Notes:
1. Surface reflectance: Vertical/Horizontal - 40/20
2. Calculation values are at height indicated in summary table.
3. Mounting heights are designated on drawing with "MH"
4. Luminaire spacing does not necessarily reflect specification model number. Contact salesperson for verification.
5. System lamp data used unless otherwise noted. LED luminaires use integrated photometric lamp data provided by manufacturer.
6. Lighting power density is calculated based on estimated ballast/over energy consumption. Engineer to verify.
7. For luminaire output of scaled luminaires, multiply Total Lumen Output by User Defined Factor.

PROJECT: STEPHENVILLE ISD STADIUM PARKING
DESIGNER: MARK SCHMIDT
SCALE: 1" = 80'-0"
CALC BY: KB
FILE: 202307_STEPHENVILLE ISD STADIUM PARKING_V2

2023-07-19

Architectural Lighting Alliance
101 Turtle Creek Blvd., Dallas, TX 75207
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www.ala.com



#	DATE	DESCRIPTION
2	09/08/2023	Development Plan Re-Submittal
1	08/25/2023	Development Plan Submittal

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Stephenville ISD Football Stadium

Stephenville, TX

Lighting System

Area ID	Pole Height	Mip Height	Fixture Qty	Luminaire Type	Load	Circuit
F1-F2	120'	120'	14	TLC-LED-1500	13.74 kW	A
		110'	3	TLC-RGBW	1.82 kW	C
F3-F4	130'	130'	18	TLC-LED-1500	25.38 kW	A
		120'	1	TLC-LED-1500	1.41 kW	B
		120'	3	TLC-RGBW	1.82 kW	C
4		80			103.56 kW	

Circuit Summary

Circuit	Description	Load	Fixture Qty
A	Football	90.24 kW	64
B	Eggn	5.64 kW	4
C	RGBW	7.68 kW	12

Fixture Type Summary

Fixture Type	Source	Wattage	Lumens	L80	L90	L70	Quantity
TLC-LED-1500	LED 5700K - 75 CRI	1410W	181,000	>120,000	>120,000	>120,000	68
TLC-RGBW	LED 5700K - 75 CRI	600W	28,500	>120,000	>120,000	>120,000	12

Single Luminaire Amperage Draw Chart

Driver (80 min power factor)	Max Line Amperage Per Luminaire
Single Phase Voltage	208 220 240 277 347 380 480
TLC-LED-1500	8.4 1.7 2.3 6.3 4.2 4.4 1.6
TLC-RGBW	4.5 4.3 3.8 3.3 2.7 1.9 1.9

Light Level Summary

Grid Name	Calculation Metric	Avg	Min	Illumination	Max	Max/Min	Aux/Min	Circuits	Fixture Qty
Football	Horizontal Illuminance	63.6	76	68	1.16	1.10	A	64	
Football	Left Endzone	46.1	58	3.64	2.88	A	64		
Football	Main TV	78.7	68	88	1.34	1.19	A	64	
Football	Right Endzone	46.1	58	3.64	2.88	A	64		
Home Bleachers	Horizontal	5.73	2	9	5.42	2.87	B	4	
Visitor Bleachers	Horizontal	10.5	6	14	2.33	1.76	B	4	

From Hometown to Professional

ENGINEERED DESIGN By: K.Dunkin - File #228490A - 28-Jul-23

Stephenville ISD Football Stadium

Stephenville, TX

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	POLE	SPACE ELEVATION	SCISSOR HEIGHT	TYPE	WATTAGE	PHASE	NO. OF POINTS	SHEET
2	F1-F2	120'	-	120'	TLC-LED-1500	13	0	1	1
2	F3-F4	130'	-	130'	TLC-LED-1500	18	0	1	1
4	TOTALS					80	64	16	

GRID SUMMARY

Name	Football
Size	300' x 300'
Spacing	30.0' x 30.0'
Height	3.0' above grade

ILLUMINATION SUMMARY

Guaranteed Average	76
Scan Average	78.71
Maximum	88
Minimum	68
Avg / Min	1.20
Guaranteed Max / Min	2
Max / Min	1.34
UG (adjacent pts)	1.20
CU	0.45
No. of Points	72

Applied Circuits: A
No. of Luminaires: 64
Total Load: 90.24 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 deprecation factor.

Field Measurements: Individual field measurements may vary from computer calculated predictions and should be taken in accordance with IESNA RP-6-15.

Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume a 3% nominal voltage at the side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1" = 80'

ENGINEERED DESIGN By: K.Dunkin - File #228490A - 28-Jul-23

Stephenville ISD Football Stadium

Stephenville, TX

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	POLE	SPACE ELEVATION	SCISSOR HEIGHT	TYPE	WATTAGE	PHASE	NO. OF POINTS	SHEET
2	F1-F2	120'	-	120'	TLC-RGBW	3	0	1	1
2	F3-F4	130'	-	130'	TLC-RGBW	3	0	1	1
4	TOTALS					6	0	2	

GRID SUMMARY

Name	Football
Size	300' x 300'
Spacing	30.0' x 30.0'
Height	3.0' above grade

ILLUMINATION SUMMARY

Guaranteed Average	85.62
Scan Average	88
Maximum	76
Minimum	76
Avg / Min	1.10
Guaranteed Max / Min	2
Max / Min	1.16
UG (adjacent pts)	1.10
CU	0.45
No. of Points	72

Applied Circuits: A
No. of Luminaires: 64
Total Load: 90.24 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 deprecation factor.

Field Measurements: Individual field measurements may vary from computer calculated predictions and should be taken in accordance with IESNA RP-6-15.

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SCALE IN FEET 1" = 80'

ENGINEERED DESIGN By: K.Dunkin - File #228490A - 28-Jul-23

Stephenville ISD Football Stadium

Stephenville, TX

EQUIPMENT LIST FOR AREAS SHOWN

QTY	LOCATION	POLE	SPACE ELEVATION	SCISSOR HEIGHT	TYPE	WATTAGE	PHASE	NO. OF POINTS	SHEET
2	F1-F2	120'	-	120'	TLC-LED-1500	3	0	1	1
2	F3-F4	130'	-	130'	TLC-LED-1500	3	0	1	1
4	TOTALS					6	0	2	

GRID SUMMARY

Name	Football
Size	300' x 300'
Spacing	30.0' x 30.0'
Height	3.0' above grade

ILLUMINATION SUMMARY

Guaranteed Average	46.09
Scan Average	46.09
Maximum	36
Minimum	36
Avg / Min	2.89
Max / Min	3.64
UG (adjacent pts)	1.73
CU	0.45
No. of Points	72

Applied Circuits: A
No. of Luminaires: 64
Total Load: 90.24 kW

Guaranteed Performance: The ILLUMINATION described above is guaranteed per your Musco Warranty document and includes a 0.95 deprecation factor.

Field Measurements: Individual field measurements may vary from computer calculated predictions and should be taken in accordance with IESNA RP-6-15.

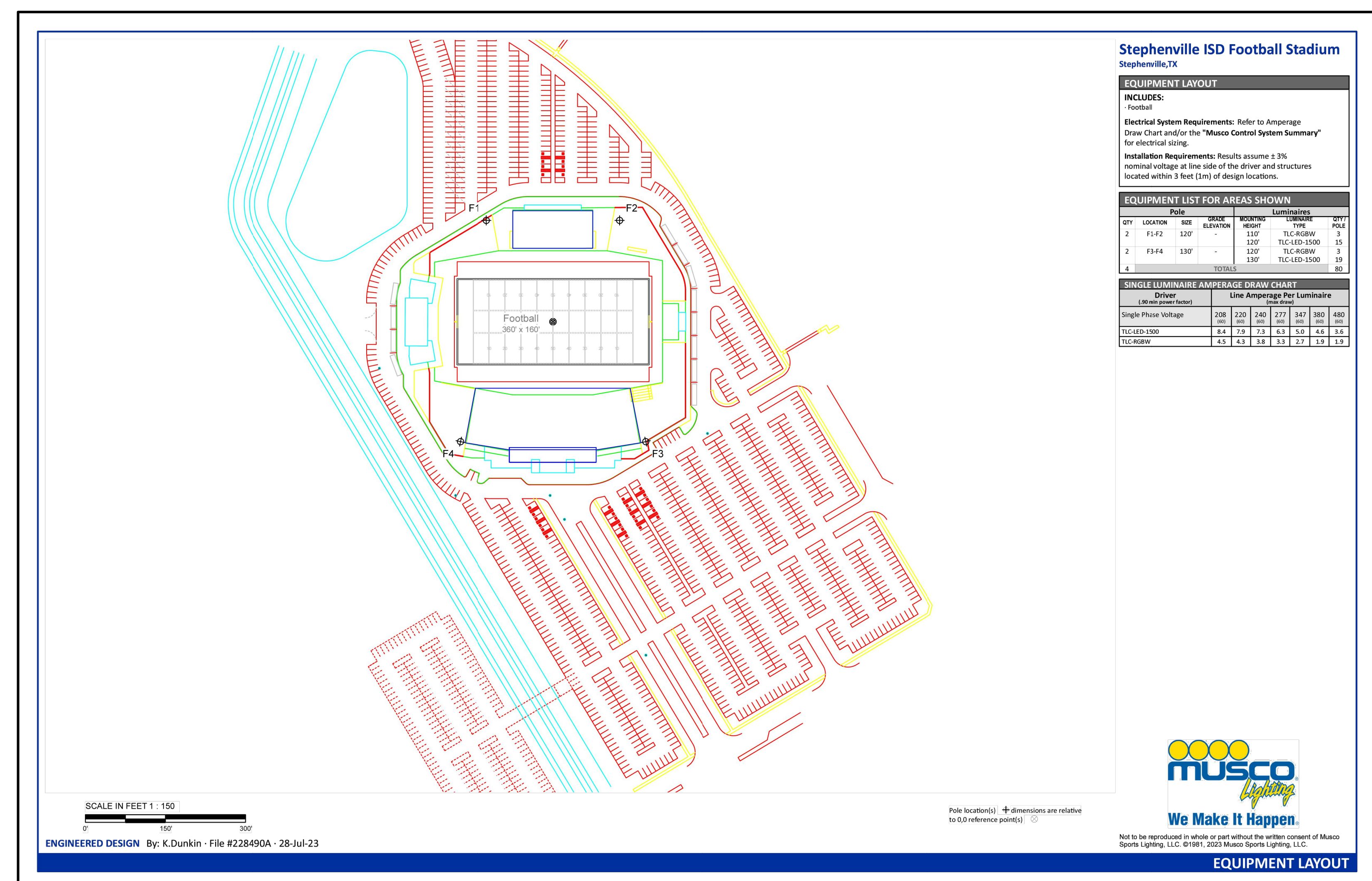
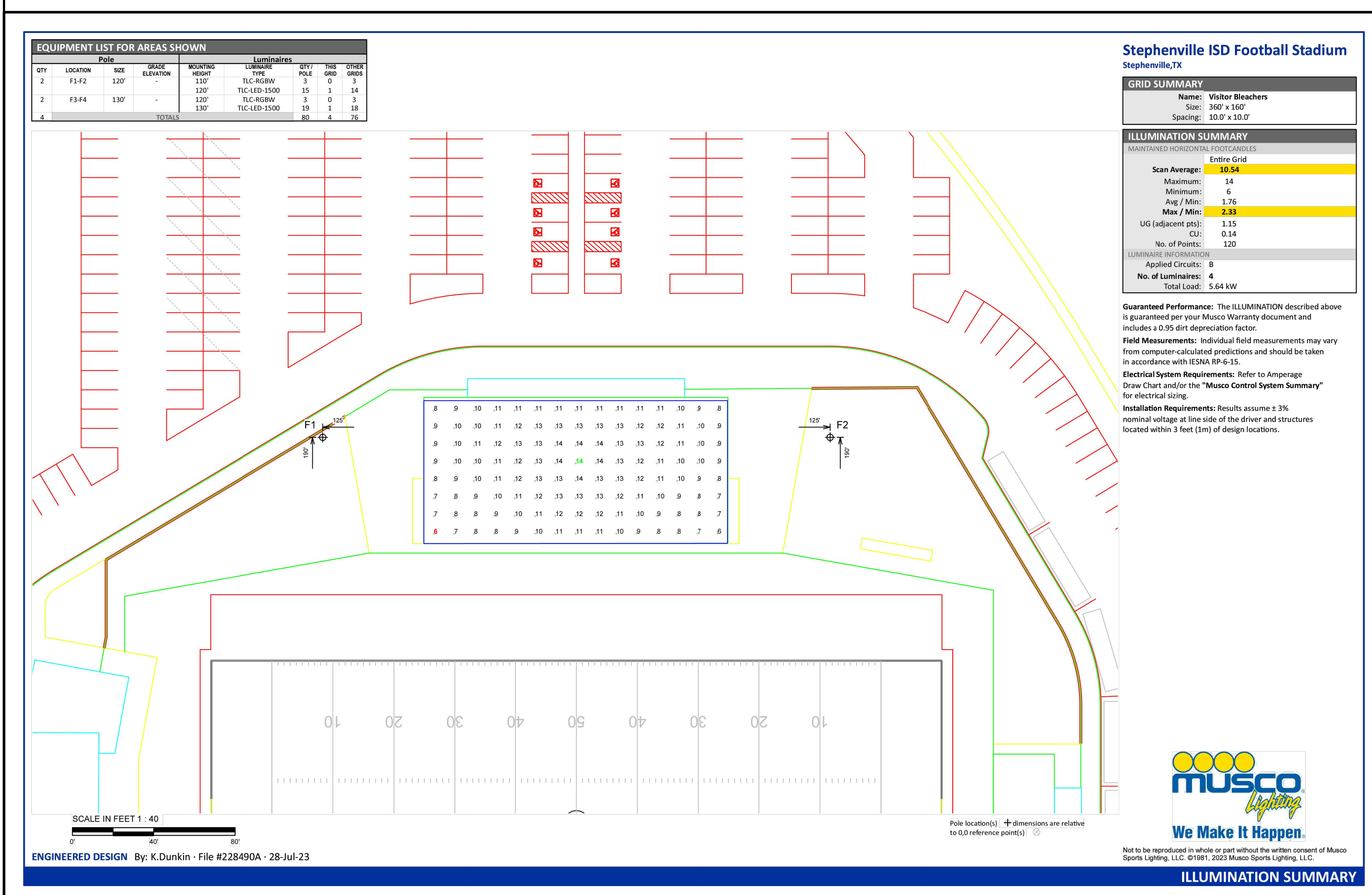
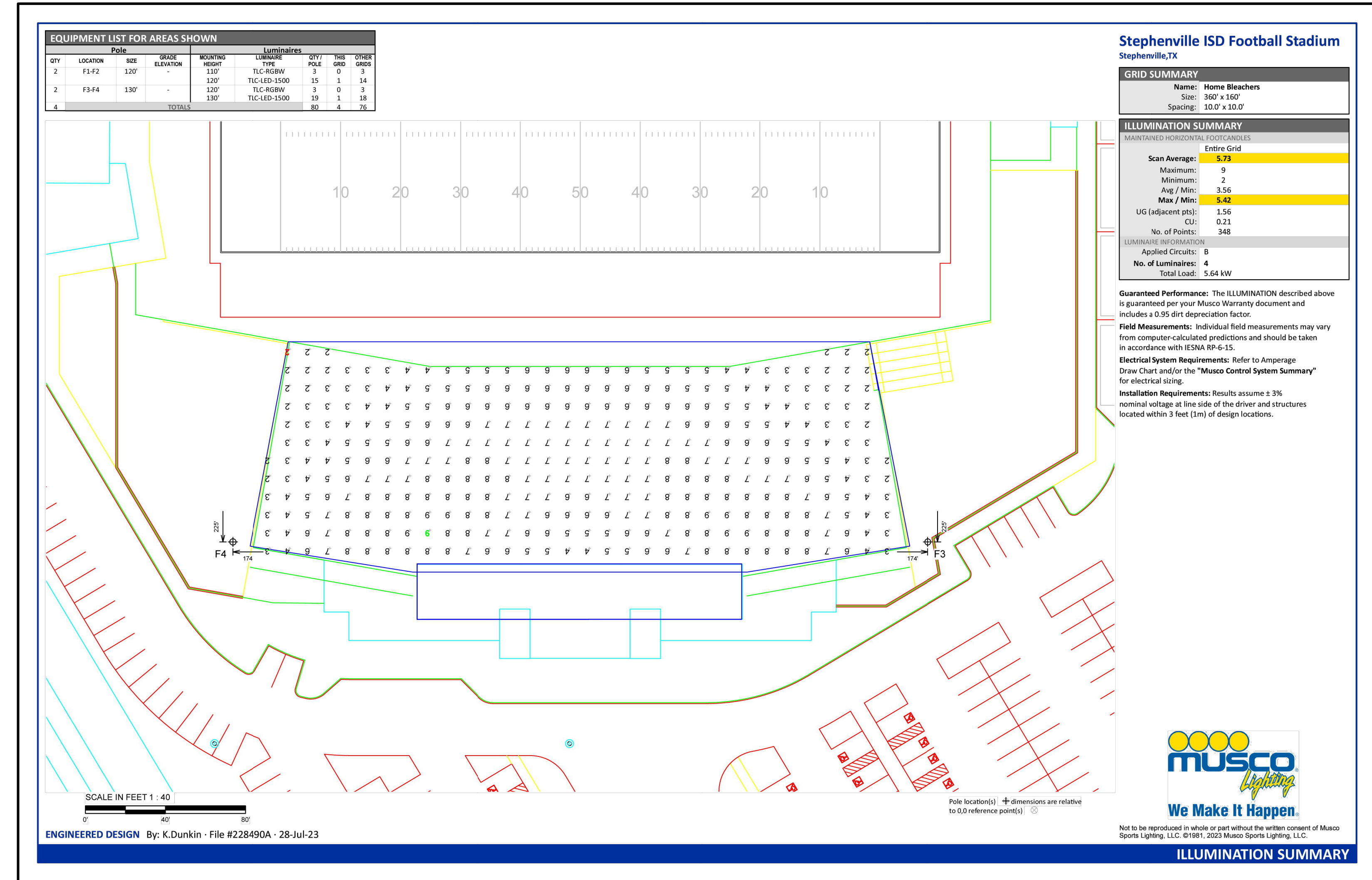
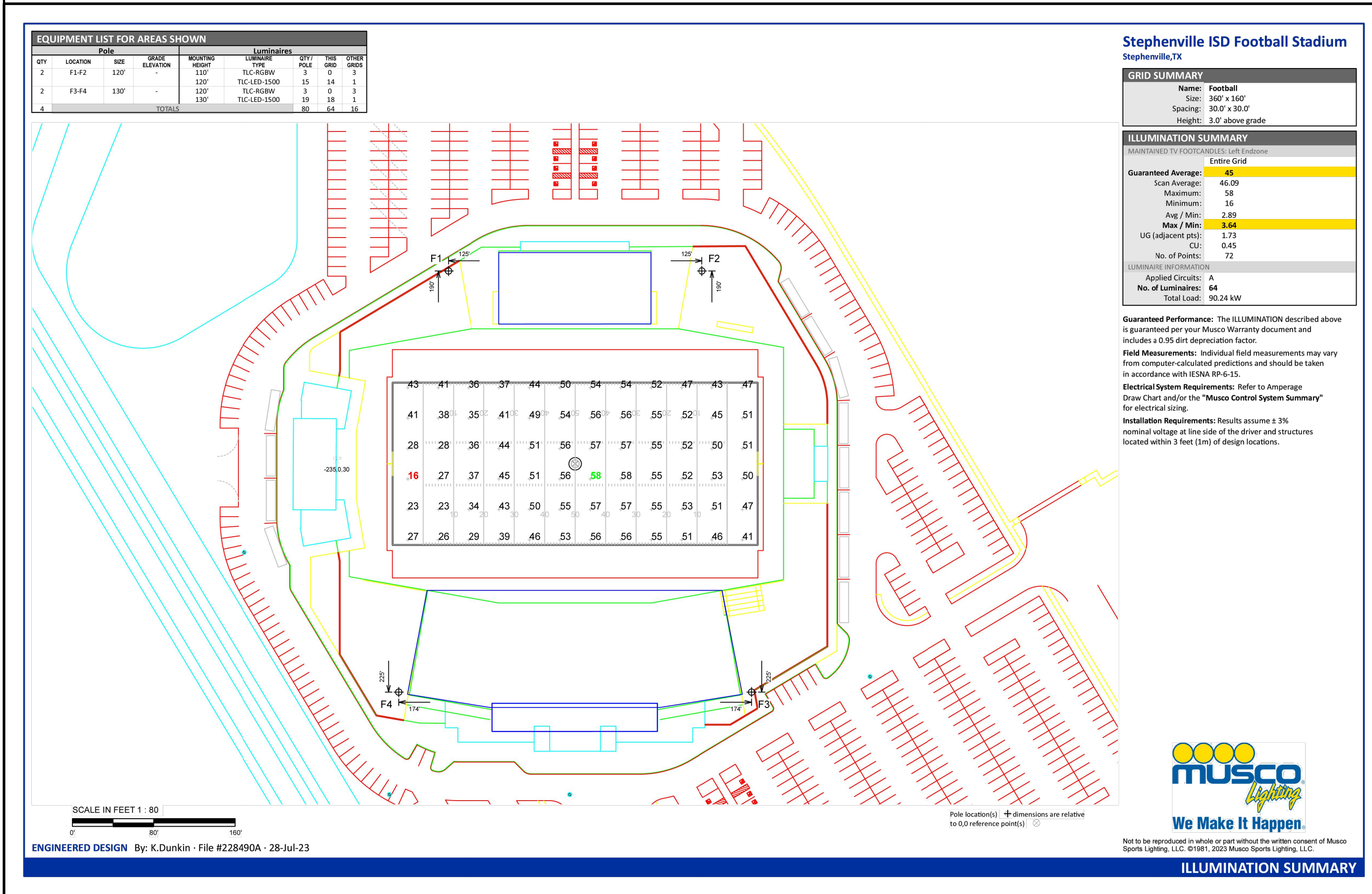
Electrical System Requirements: Refer to Amperage Draw Chart and/or the "Musco Control System Summary" for electrical sizing.

Installation Requirements: Results assume a 3% nominal voltage at the side of the driver and structures located within 3 feet (1m) of design locations.

SCALE IN FEET 1" = 80'

ENGINEERED DESIGN By: K.Dunkin - File #228490A - 28-Jul-23

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Stephenville ISD Stadium
Honeybees & Yellowjackets



CROSSLAND · Parkhill

CLIENT
Stephenville ISD

N Frey & N Wolfe Nursery Rd.
Stephenville, TX 76401

PROJECT NO.
40108.22

KEY PLAN

#	DATE	DESCRIPTION
2	09/08/2023	Development Plan Re-Submittal
1	08/25/2023	Development Plan Submittal

Illumination
Summary &
Equipment
Layout

E-103