

WESTLAKE SKATEPARK: SITE IMPROVEMENTS PROJECT 2024-085 ISSUED FOR BID MARCH 7, 2024

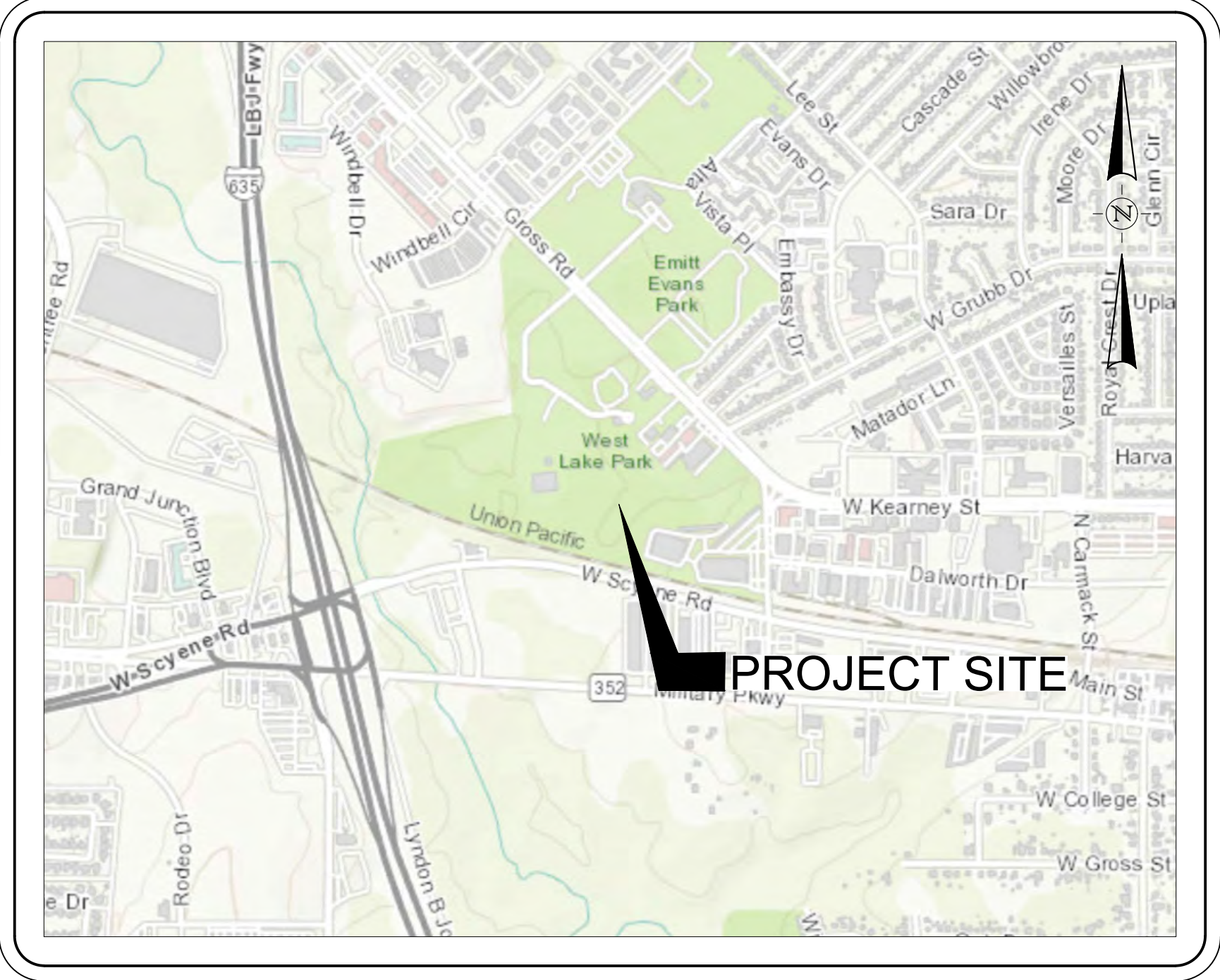
600 GROSS ROAD
MESQUITE, TX 75149

LANDSCAPE ARCHITECT

DAVID BUCHANAN
1201 NORTH BOWSER ROAD
RICHARDSON, TEXAS 75081-2275
EMAIL: dbuchanan@half.com
TEL: (214) 346-6268



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LOCATION MAP

NOT TO SCALE

OWNER/CLIENT:



1515 N. GALLOWAY AVE.
MESQUITE, TX 75149
TEL. (972) 216-6413
www.cityofmesquite.com

PREPARED BY:



1201 NORTH BOWSER ROAD
RICHARDSON, TEXAS 75081-2275
TEL. (214) 346-6200 FAX (214) 739-0095
www.halff.com

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RICHARDSON, TEXAS 75081
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APPROVED BY:

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NAME	DATE
_____	_____
NAME	DATE

Sheet List Table	
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Know what's below.
Call before you dig.

THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING SIZE, TYPE AND LOCATION OF UNDERGROUND, SURFACE, AND AERIAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT THE GEORGETOWN AREA "ONE CALL" SYSTEM AT 1-800-344-8377 (DIG TESS) 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION FOR EXISTING UTILITY LOCATIONS. THE CONTRACTOR SHALL ALSO BE FULLY RESPONSIBLE FOR FIELD VERIFYING LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AFFECTED BY CONSTRUCTION FOR THIS PROJECT IN ORDER TO AVOID DAMAGING THOSE UTILITIES, AND SHALL IMMEDIATELY ARRANGE FOR REPAIR AND RESTORATION OF CONTRACTOR-DAMAGED UTILITIES TO THE UTILITY COMPANY'S APPROVAL AT THE EXPENSE OF THE CONTRACTOR.

FILE NAME: \\halff-ar\pzn\av\055000s\53890\01\1\ACADD\Sheets\L0.00-COVER.dwg DATE: March 7, 2024, TIME: 9:46 AM - USER: ah5246 AVO: 53890.001



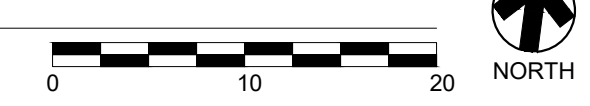
- EXISTING TREE
- EXISTING TELEPHONE LINE
- EXISTING BUILDING
- EXISTING UTILITY
- EXISTING GRAVEL BED

- EXISTING SHADE STRUCTURE
- EXISTING CONCRETE PAD
- EXISTING FENCE
- EXISTING LIGHT FIXTURE

NOTE:
AT THE AREA OF EXCAVATION, EXISTING CONDITIONS MAY VARY.

1 EXISTING SITE CONDITIONS

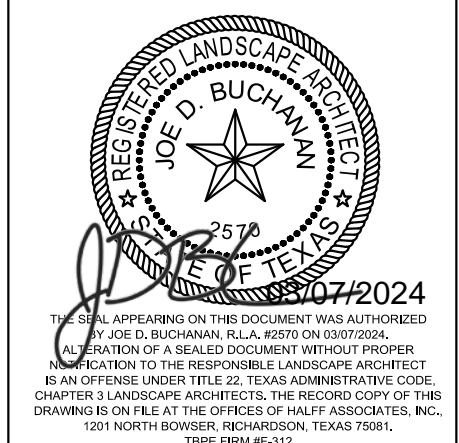
SCALE: 1" = 10'-0"



WESTLAKE
SKATE PARK
MESQUITE, TEXAS



REVISION NO.	DATE	DESCRIPTION



PROJECT NO.: 53890.001
 ISSUED: MARCH 2024
 DRAWN BY: MLS
 CHECKED BY: JDB
 SCALE: AS NOTED
 SHEET TITLE

EXISTING SITE CONDITIONS

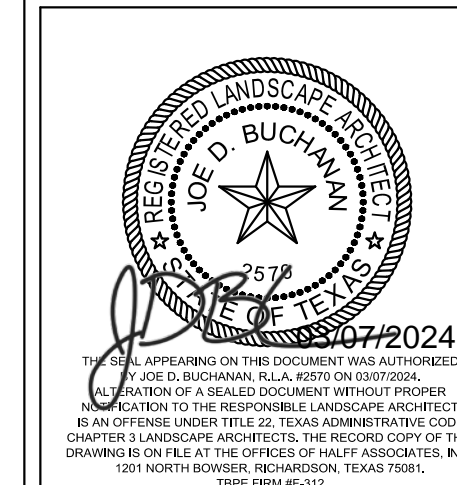
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FILE NAME: \\halff\ap\pzn\AVO\53890\01\LA\CADD\Sheets\L2-00- DEMOLITION.dwg DATE: March 7, 2024, TIME: 9:46 AM, USER: ah5246, AUC: 53890.001

WESTLAKE
SKATE PARK
MESQUITE, TEXAS



REVISION NO.	DATE	DESCRIPTION



PROJECT NO.:	53890.001
ISSUED:	MARCH 2024
DRAWN BY:	MLS
CHECKED BY:	JDB
SCALE:	AS NOTED
SHEET TITLE	

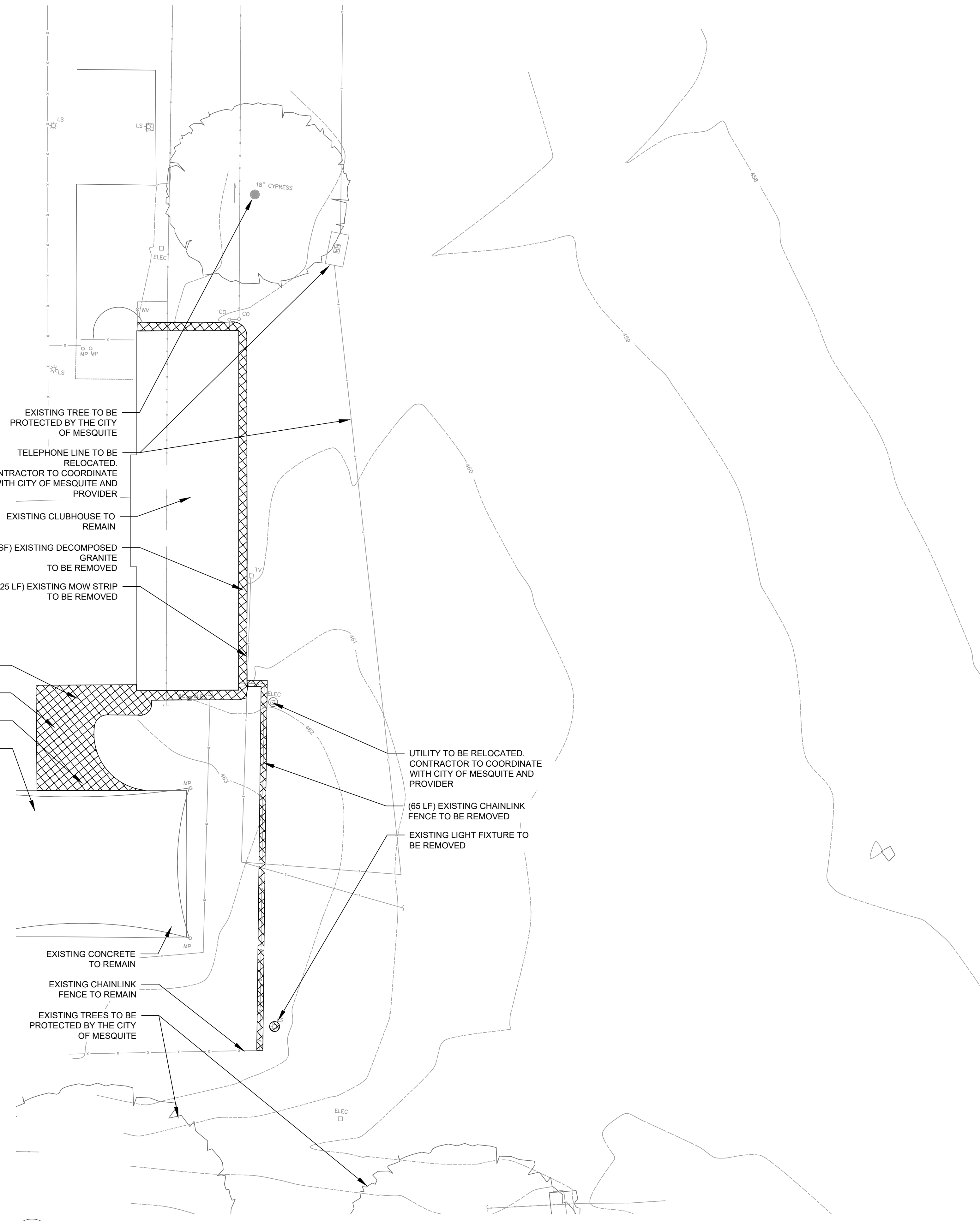
DEMOLITION PLAN

L1.00

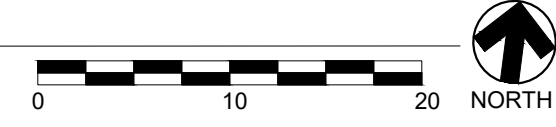
- NOTES:**
- ALL UNDERGROUND UTILITY LINES ARE SCHEMATICALLY SHOWN FOR REFERENCE ONLY.
 - CONTRACTOR TO TAKE EXTREME CAUTION AND CARE AROUND EXISTING UTILITIES.
 - CONTRACTOR TO FIELD VERIFY THE LOCATION OF UTILITIES.
 - VERIFYING THE DEPTH OF CERTAIN UTILITIES MAY BE WARRANTED. CONTRACTOR TO COORDINATE WITH CITY AND UTILITY COMPANY PRIOR TO DEPTH EXCAVATION.
 - NOTIFY OWNER AND LANDSCAPE ARCHITECT OF ANY DISCREPANCIES BETWEEN THE DRAWINGS AND FIELD CONDITIONS.

CAUTION ~ UNDERGROUND AND OVERHEAD UTILITIES!
Underground utilities in area. Contact Texas One Call System (811) two working days prior to construction.
Tele: 1-800-245-4545

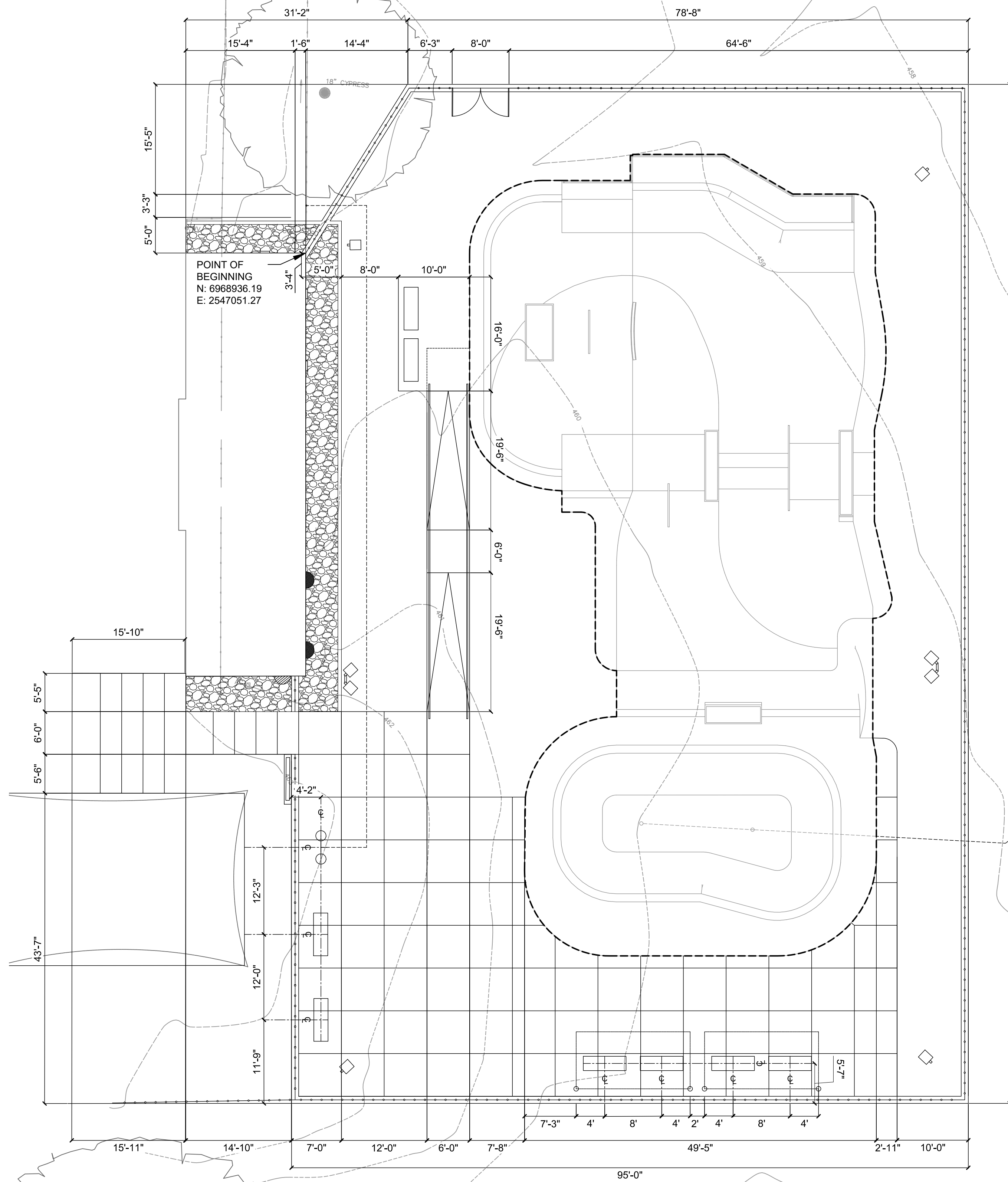
DEMOLITION LEGEND
 EXISTING ELEMENT TO BE REMOVED



1 DEMOLITION PLAN
SCALE: 1" = 10'-0"

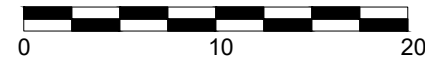


NOTE:
ALL DIMENSIONS ARE TAKEN FROM THE POINT OF BEGINNING.



1 GEOMETRIC LAYOUT

SCALE: 1" = 10'-0"



2 SITE PLAN

SCALE: 1" = 10'-0"

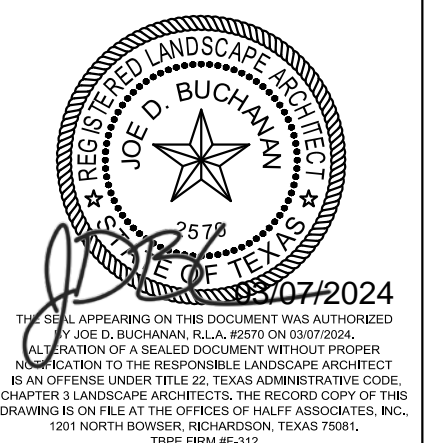


- (01) DOUBLE WIDE, LOCKABLE, ACCESS GATE. REF. SITE DETAILS.
- PROPOSED SINGLE LIGHT FIXTURE TYP. REF. SITE DETAILS
- (02) BENCHES TYP. TO BE PROVIDED BY CITY
- PROPOSED RAMP WITH HANDRAIL. REF. SITE DETAILS.
- (390 SF) ROCK BED TAN RIVER ROCK 1"-2" REF. SITE DETAILS.
- (02) DECOVENT REF. SITE DETAILS.
- EXISTING BUILDING
- PROPOSED DOUBLE LIGHT FIXTURE TYP. REF. SITE DETAILS
- EXISTING DECOVENT
- EXISTING CONCRETE
- WROUGHT IRON ENTRY GATE. REF. SITE DETAILS
- 6' WROUGHT IRON FENCE REF. SITE DETAILS
- (01) 10145 SMFA WATER FOUNTAIN BY MOST DEPENDABLE FOUNTAIN REF. SITE DETAILS
- (02) BENCHES TYP. TO BE PROVIDED BY CITY
- PROPOSED SINGLE LIGHT FIXTURE TYP. REF. SITE DETAILS
- EXISTING FENCE
- (02) 8X16 SINGLE CANTILEVERED SHADE STRUCTURES BY SHADE SYSTEMS
- (04) BENCHES TYP. TO BE PROVIDED BY CITY
- ROCK SALT FINISH CONCRETE. REF. SITE DETAILS.
- DRAINAGE OUTFALL LOCATION TO BE VERIFIED BY CONTRACTOR AND CITY. REF. SITE DETAILS
- PROPOSED SINGLE LIGHT FIXTURE TYP. REF. SITE DETAILS
- PROPOSED SINGLE LIGHT FIXTURE TYP. REF. SITE DETAILS
- PROPOSED 6' CHAINLINK FENCE WITH ALT 1 MOWSTRIP. REF. SITE DETAILS.
- SKATEPARK BY OTHERS
- EXISTING CONDITIONS MAY VARY
- PROPOSED DOUBLE LIGHT FIXTURE TYP. REF. SITE DETAILS

WESTLAKE
SKATE PARK
MESQUITE, TEXAS



REVISION NO.	DATE	DESCRIPTION

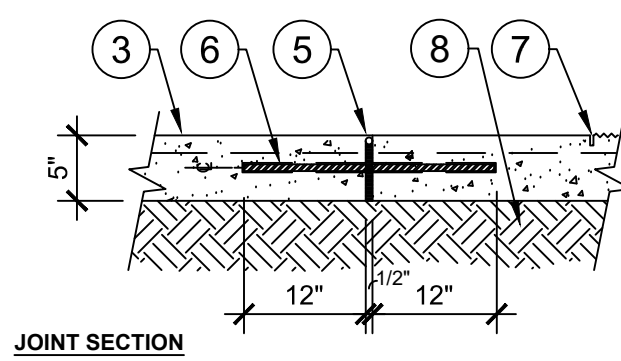
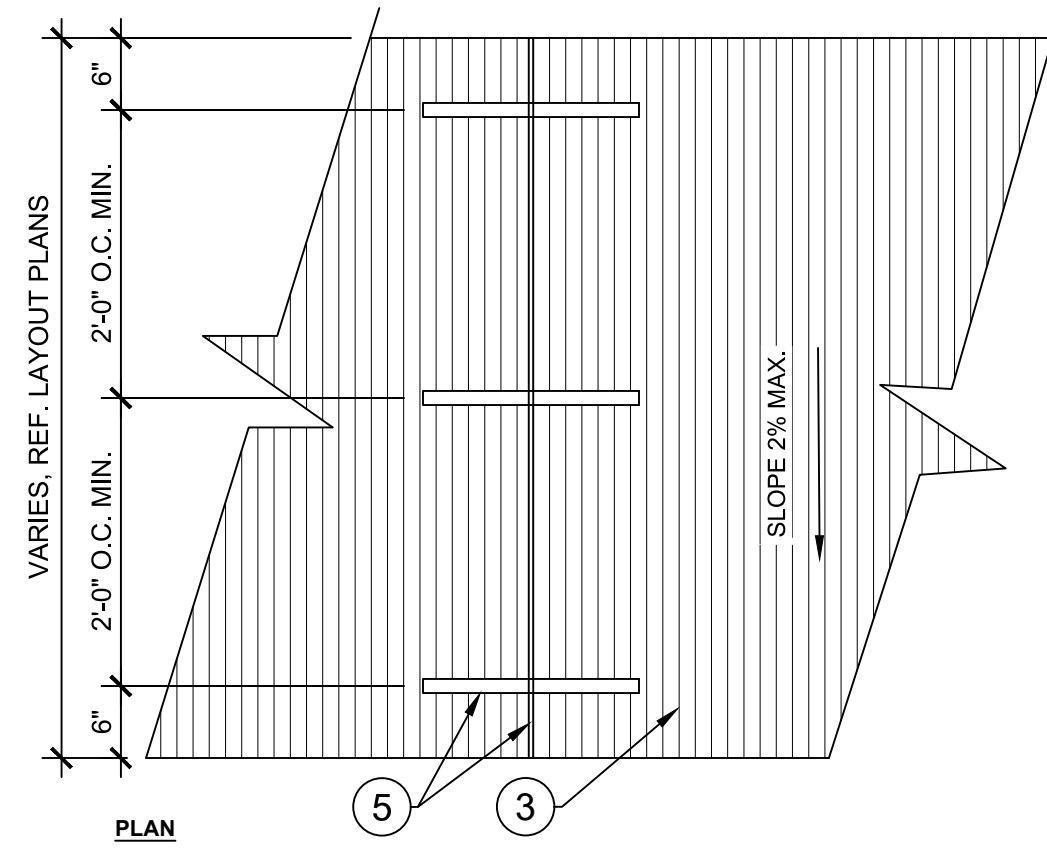


PROJECT NO.: 53890.001
ISSUED: MARCH 2024
DRAWN BY: MLS
CHECKED BY: JDB
SCALE: AS NOTED
SHEET TITLE
SITE PLAN AND GEOMETRIC LAYOUT

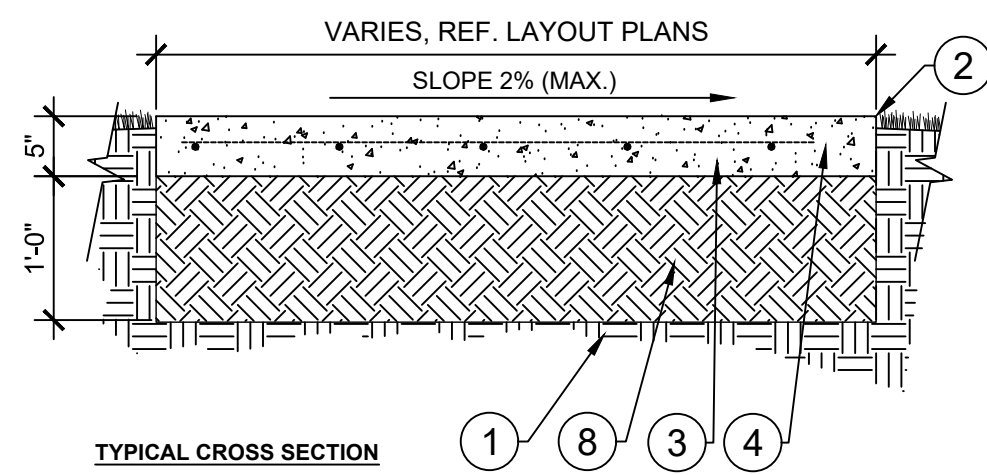
L2.00

FILE NAME: \\halff\ap\pzn\AVO\53890\001\LA\CADD\Sheets\L2.00 - SITE PLAN.dwg DATE: March 7, 2024, TIME: 9:46 AM, USER: ah5246 AVO: 53890.001

FILE NAME: \\halff\ap\ZNA\VO\53890\01\LACADD\Sheets\L4.00- SITE PLAN.dwg DATE: March 7, 2024, TIME: 9:46 AM, USER: ah5246 AVD: 53890.001

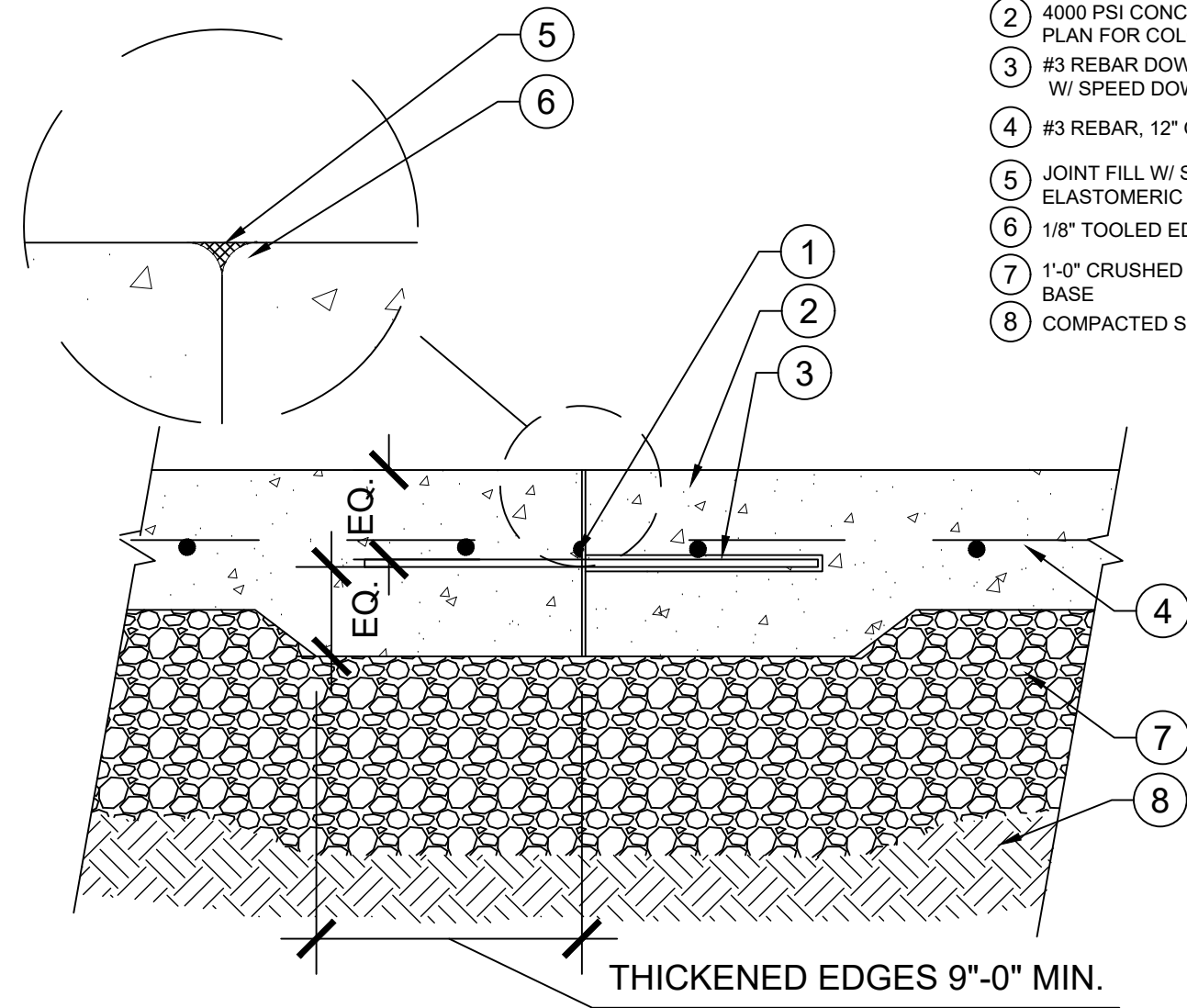


1 TYP. CONCRETE SIDEWALK & EXPANSION JOINT
3/4" = 1'-0"

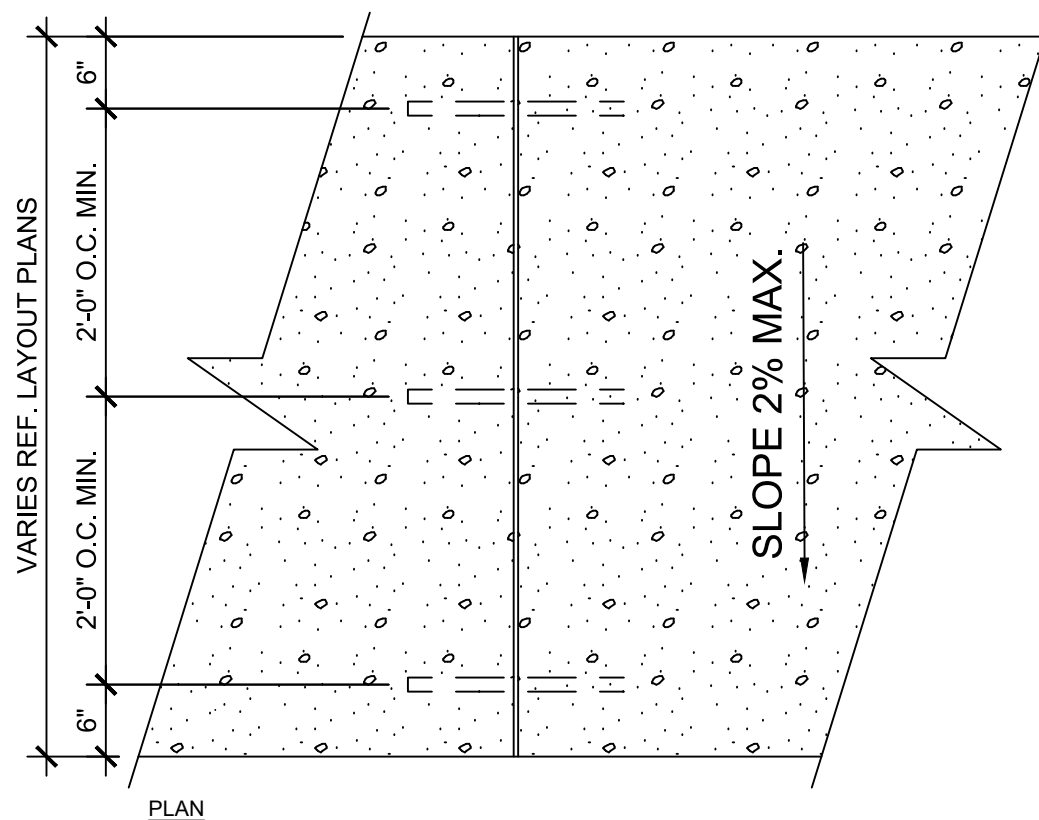


- KEY:**
- 1 COMPACTED SUBGRADE TO 95% MAX. DENSITY.
 - 2 FINISHED GRADE, 1/2" BELOW PAVEMENT ELEVATION.
 - 3 5" CONCRETE, 4000 PSI, MEDIUM BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL ON SINGLE RUN WALKWAYS.
 - 4 ONE LAYER #3 BARS PLACED NOT MORE THAN 12" O.C. BOTH DIRECTIONS (TYP.) REINF. TO BE PLACED 1/2 THE SLAB THICKNESS BELOW FINISHED SURFACE.
 - 5 EXPANSION JOINT - 1/2" BITUMINOUS BOARD FULL DEPTH TO SUPPORT BAKER ROD/ZIP-STRIP, SEAL WITH SL-1 JOINT SEALANT (COLOR TO MATCH CONCRETE)
 - 6 SMOOTH DOWEL 18" LENGTH AT 24" O.C. MIN., GREASE AND CAP FULL LENGTH OF EXPOSED DOWEL. REF. LAYOUT PLAN FOR JOINT LOCATIONS.
 - 7 1/4" SAW CUT CONTROL JOINTS, REF. LAYOUT PLAN FOR LOCATIONS.
 - 8 1'-0" CRUSHED STONE FLEX BASE

4 COLD JOINT
1 1/2" = 1'-0"

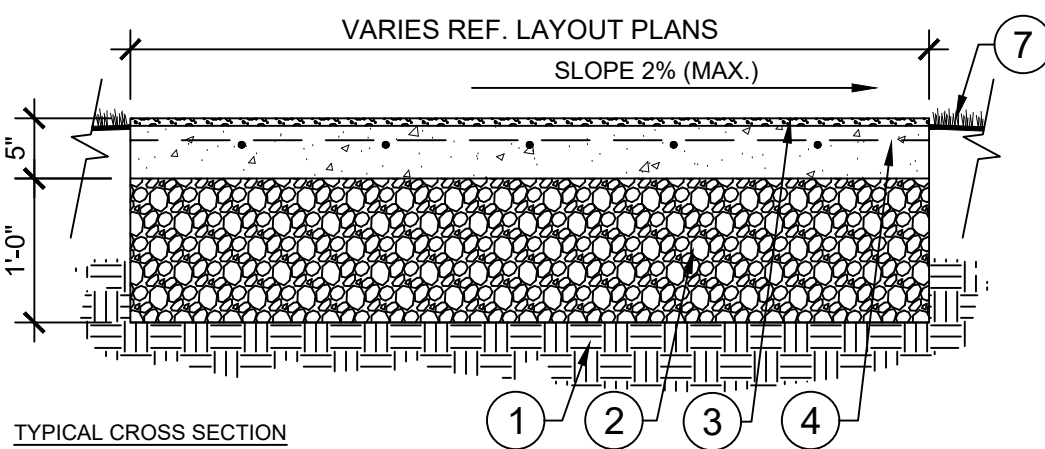


- KEY:**
- 1 WATERSTOP
 - 2 4000 PSI CONC. REF. HARDSCAPE PLAN FOR COLOR/ FINISH
 - 3 #3 REBAR DOWEL, 18" LENGTH, W/ SPEED DOWEL @ 24" O.C.
 - 4 #3 REBAR, 12" O.C. EA. WAY TYP.
 - 5 JOINT FILL W/ SELF LEVELING ELASTOMERIC SEALANT
 - 6 1/8" TOOLED EDGE
 - 7 1'-0" CRUSHED STONE FLEX BASE
 - 8 COMPACTED SUBGRADE



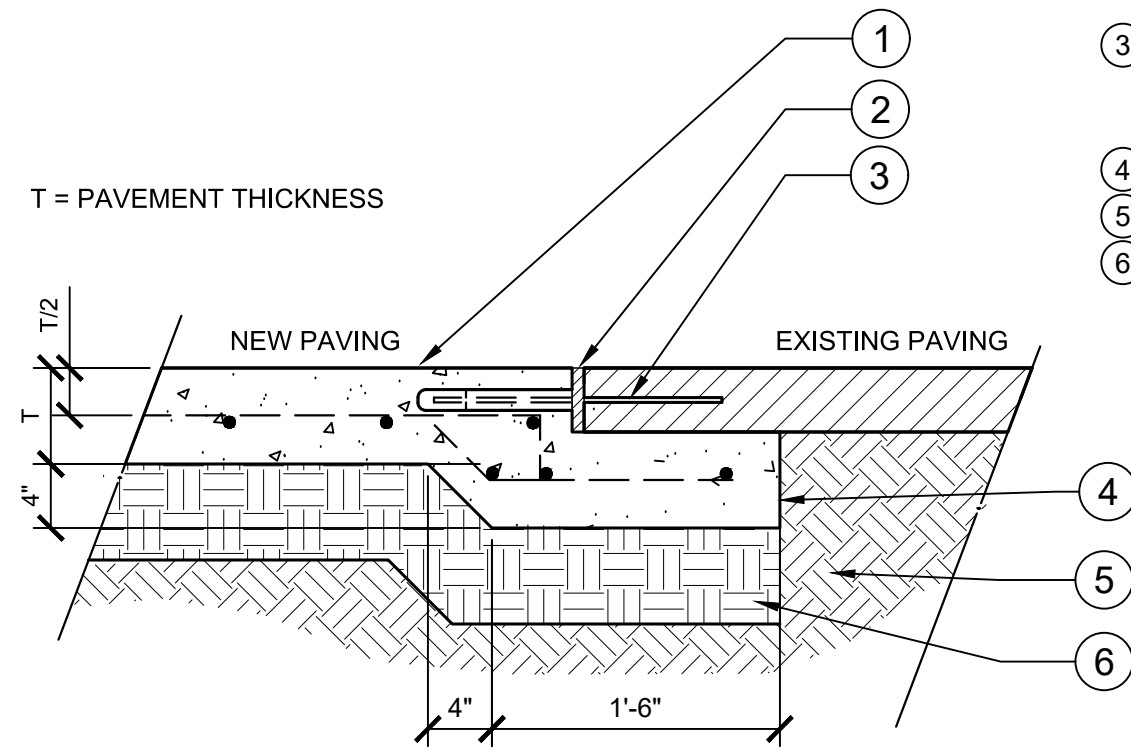
- KEY:**
- 1 COMPACTED SUBGRADE TO 95% MAX. DENSITY
 - 2 1'-0" CRUSHED STONE FLEX BASE
 - 3 5" CONCRETE, 4000 PSI, ROCK SALT FINISH CONCRETE.
 - 4 ONE LAYER #3 BARS PLACED NOT MORE THAN 18" O.C. BOTH DIRECTIONS (TYP.) REINF. TO BE PLACED 1/3 THE SLAB THICKNESS BELOW FINISHED SURFACE ON PLASTIC CHAIRS.
 - 5 EXPANSION JOINT - 3/4" BITUMINOUS BOARD FULL DEPTH TO SUPPORT BAKER ROD/ZIP-STRIP, SEAL WITH SL-1 JOINT SEALANT (COLOR TO MATCH CONCRETE, 1/2" DIA. SMOOTH DOWEL 18" LENGTH AT 24" O.C. MIN., GREASE AND CAP FULL LENGTH OF EXPOSED DOWEL. REF. SITE PLAN FOR JOINT LOCATIONS.
 - 6 1/4" WIDE X 5/8" DEPTH CONTROL JOINT. TOOLED JOINTS, REF. SITE PLAN FOR LOCATIONS.
 - 7 FINISHED GRADE, 1" BELOW PAVEMENT ELEVATION

NOTES:
CONTRACTOR TO PROVIDE 4' X 4' MOCK-UP OF SALT FINISH PRIOR TO CONSTRUCTION FOR ACCEPTANCE BY LANDSCAPE ARCHITECT.



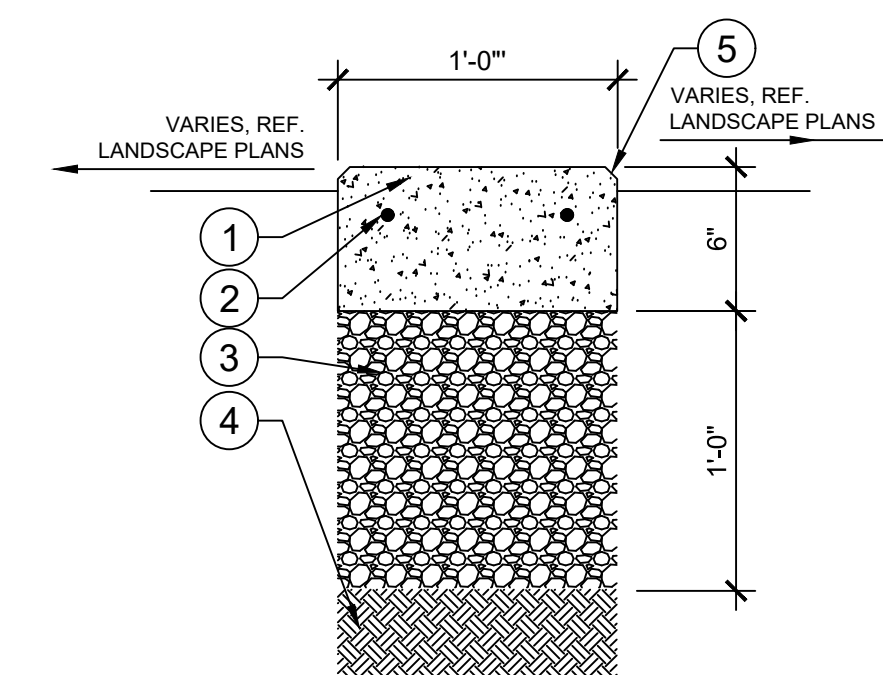
2 ROCK SALT FINISH CONCRETE
3/4" = 1'-0"

NOTE:
1. DOWEL SUPPORT SHALL BE A METHOD APPROVED BY ENGINEER. EXPANSION JOINT SPACING AS SPECIFIED.
2. DRILL, INSERT, AND SECURE DOWEL INTO SAWCUT FACE OF EXISTING CONCRETE WITH EPOXY, LEAVING 1/2 LENGTH OF DOWEL EXPOSED.



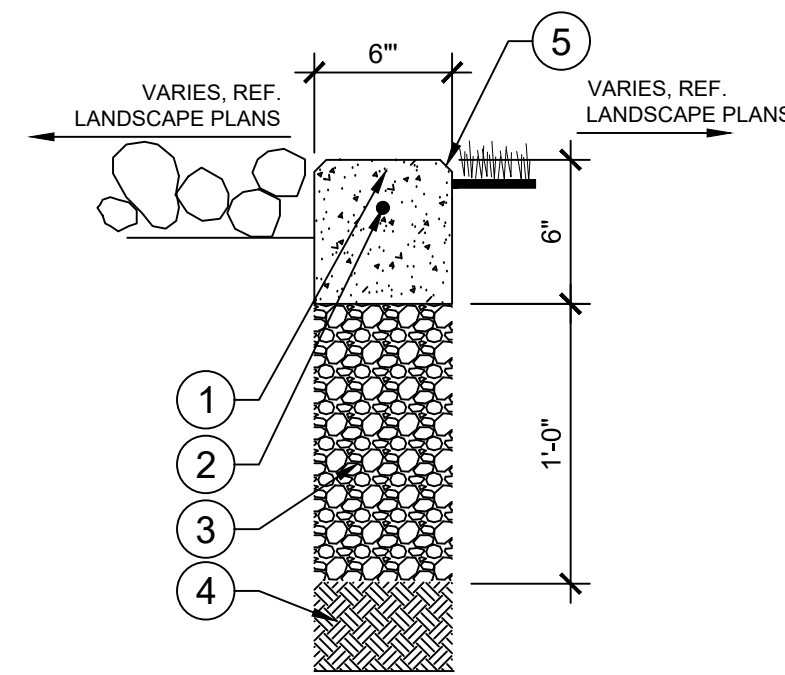
- KEY:**
- 1 CONCRETE SIDEWALK REFER TO DETAIL 1 THIS SHEET
 - 2 EXPANSION JOINT W/ ASPHALT IMPREGNATED FIBERBOARD AND CAULKED CAP
 - 3 #4 SMOOTH DOWEL AT 16" O.C. DE-BONDED OR ENCASED IN SLEEVE AND CAP TO ALLOW MOVEMENT
 - 4 UNDERCUT HEADER
 - 5 UNDISTURBED SOIL
 - 6 6" DEPTH SCARIFIED AND COMPACTED SUBGRADE, COMPACT TO 95% PROCTOR DENSITY

5 EXISTING/NEW CONCRETE CONNECTION
1' = 1'-0"



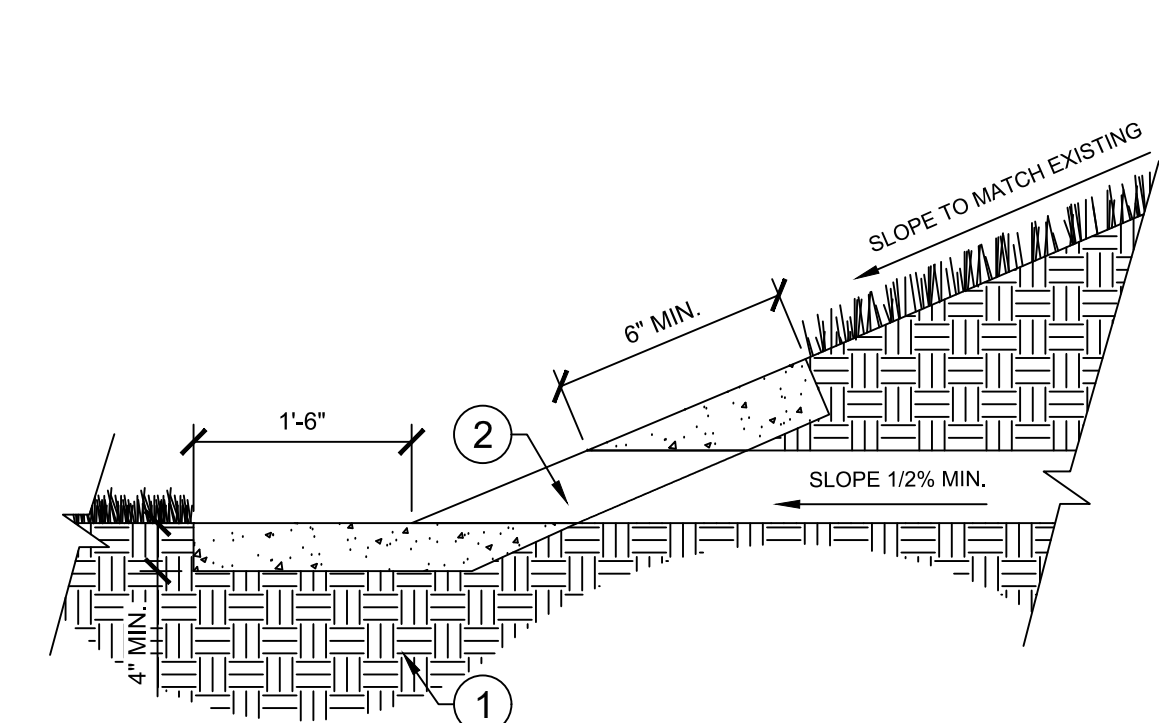
- KEY:**
- 1 4000 PSI CONC. REF. HARDSCAPE PLAN FOR COLOR/ FINISH
 - 2 #3 REBAR CONTINUOUS
 - 3 1'-0" CRUSHED STONE FLEX BASE
 - 4 SELECT FILL
 - 5 1/2" CHAMFER

3 ALT #1 CONCRETE MOW STRIP, (TYP.)
1 1/2" = 1'-0"



- KEY:**
- 1 4000 PSI CONC. REF. HARDSCAPE PLAN FOR COLOR/ FINISH
 - 2 #3 REBAR
 - 3 1'-0" CRUSHED STONE FLEX BASE
 - 4 SELECT FILL
 - 5 1/2" CHAMFER

6 PLANTER CURB, (TYP.)
1 1/2" = 1'-0"



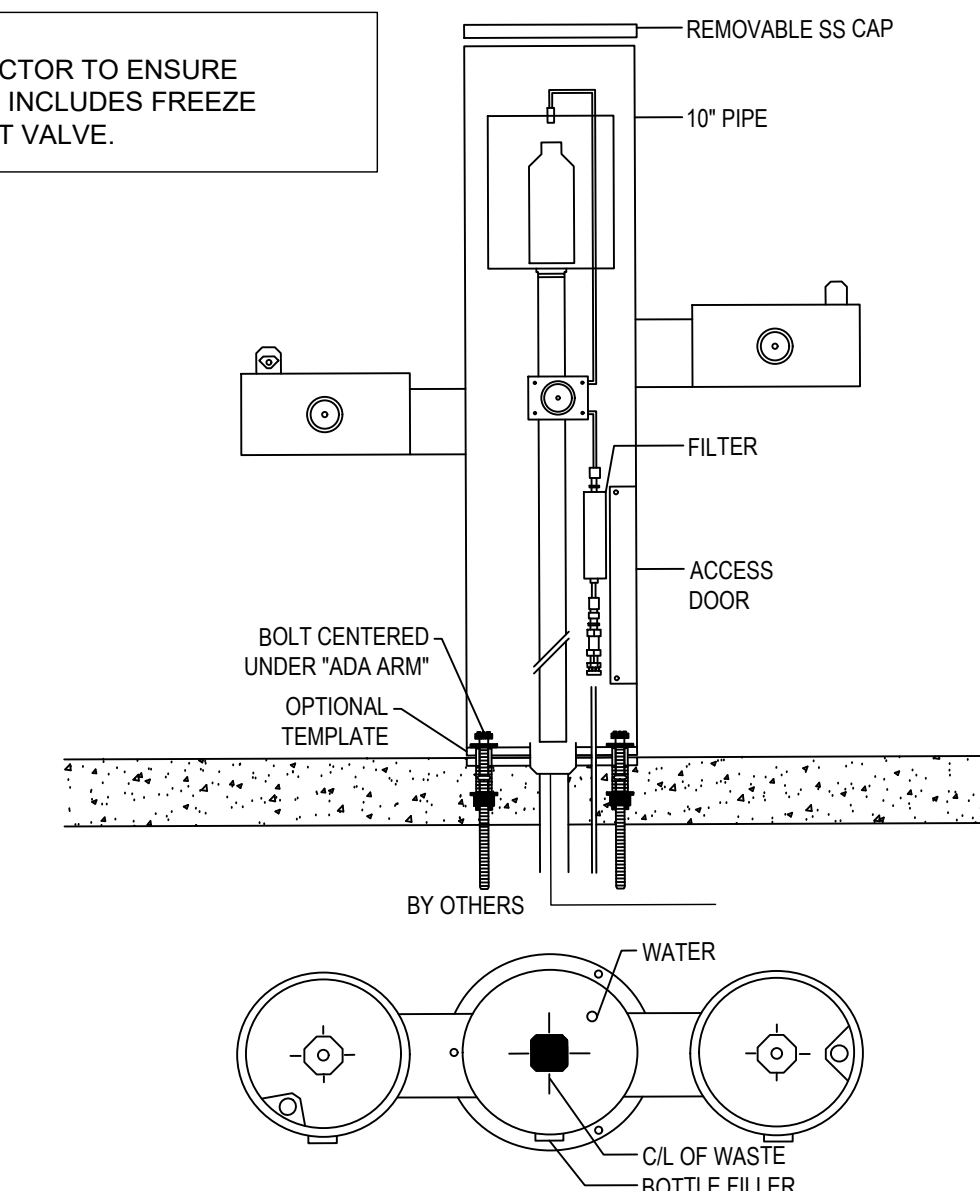
- KEY:**
- 1 COMPACTED SUBGRADE TO 95% MAX DENSITY
 - 2 4" PVC DRAIN PIPE @ 1% MIN. CHAMFER END TO MATCH EXISTING SLOPE. REF. GRADING PLAN. PLACE 4" THICK CONCRETE RIP-RAP AROUND PIPE END PER DIMENSIONS SHOWN, 6" ALL SIDES MIN.

7 DRAIN HEADWALL
3/4" = 1'-0"



MOST DEPENDABLE FOUNTAINS, INC.
5705 COMMANDER DR. P.O. BOX 587
ARLINGTON, TN 38002-0587
PHONE: (901) 867-0039
www.mostdependable.com

NOTES:
1. CONTRACTOR TO ENSURE FOUNTAIN INCLUDES FREEZE RESISTANT VALVE.

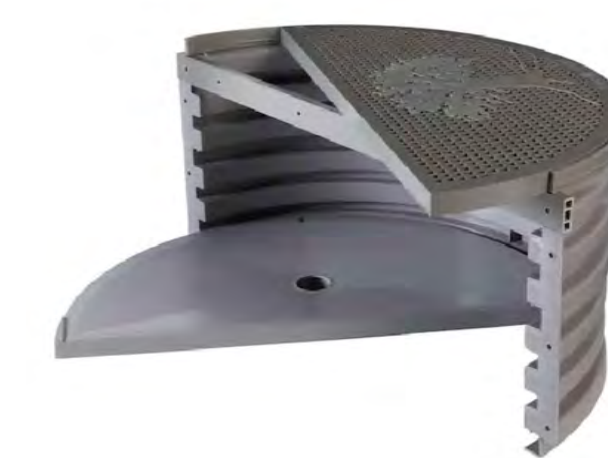


- NOTES:**
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 2. DO NOT SCALE DRAWING.
 3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
 4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
 5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 3354-17.45.

8 MODEL 10145SMFA
10145SS SHOWN WITH OPTIONAL 10" SS SURFACE CARRIER

L4.00- SIT
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REVISION DATE 03/07/2024
CADdetails.com



- NOTES:**
1. CONTRACTOR TO MATCH EXISTING DECOVENT LOCATED ON THE SOUTH SIDE OF THE EXISTING CLUBHOUSE.
 2. CONTRACTOR TO SUBMIT PRODUCT DETAILS FOR REVIEW
 3. INSTALL PER MANUFACTURER INSTRUCTIONS
- MANUFACTURER: DECOVENT
TYPE: DECOVENT MODEL #3
COLOR: LIGHT GRAY
APPROVAL: CUT SHEET

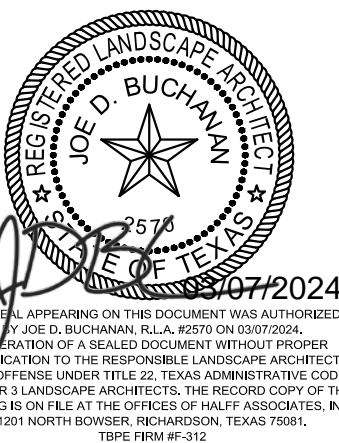
9 DECOVENT UNIT
SCALE: NTS

WESTLAKE
SKATE PARK
MESQUITE, TEXAS

MESQUITE
T E X A S

halff
1201 NORTH BOWSER RD.
DALLAS, TEXAS 75081-1275
TEL: (214) 346-6200

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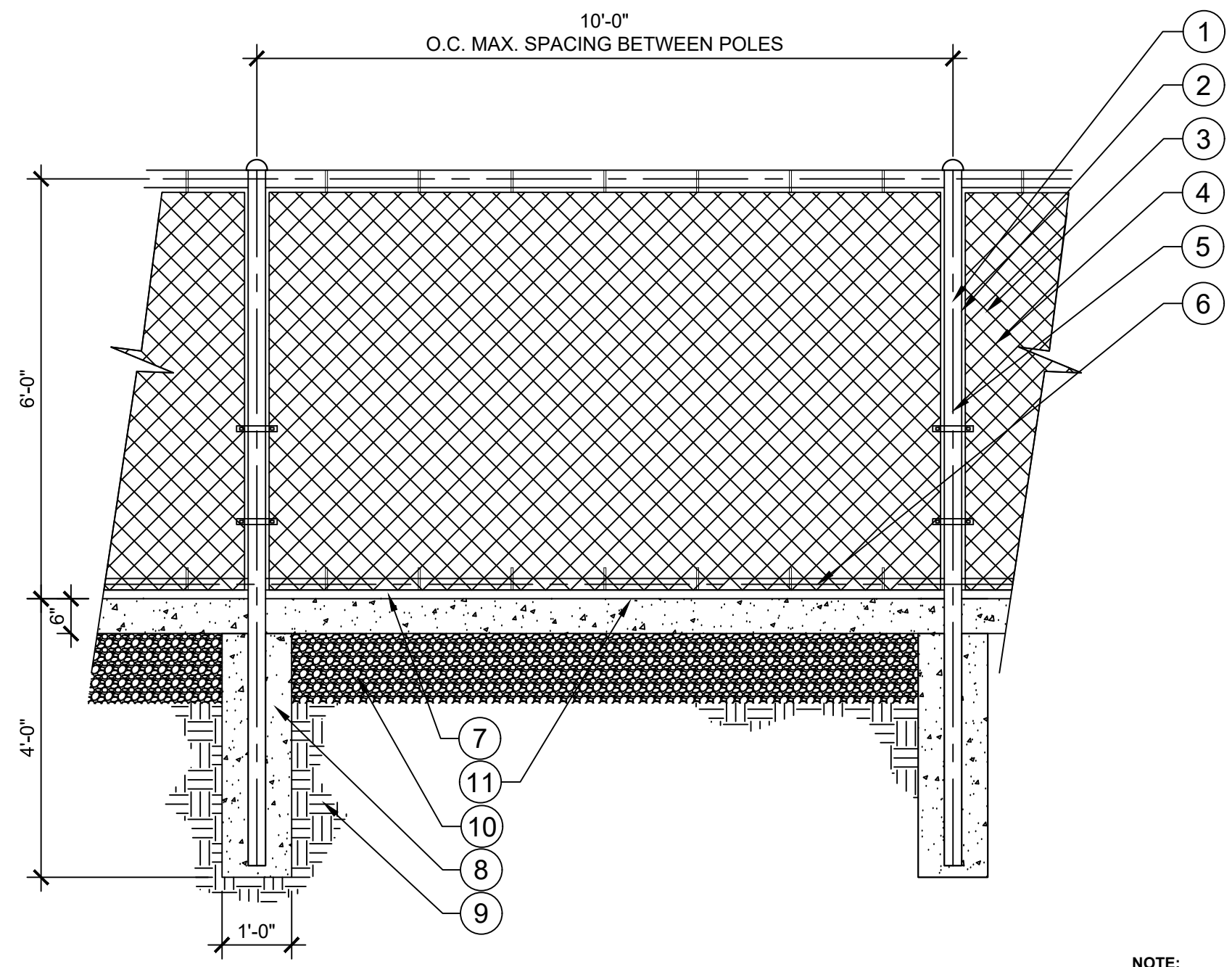


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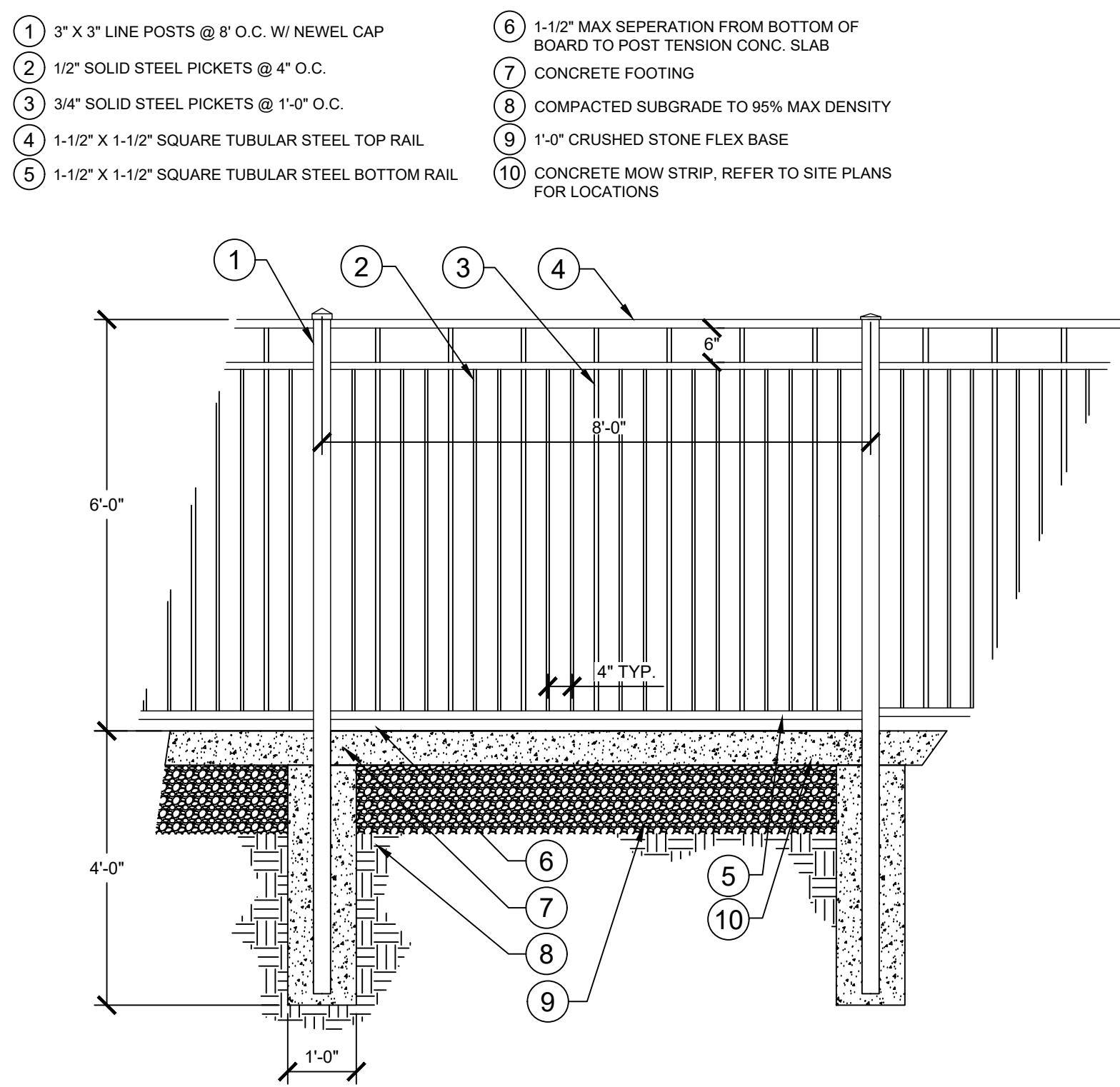


- KEY:**
- 1 GALVANIZED STEEL CAPS, TYP.
 - 2 WIRE TIES 16" O.C. TYP.
 - 3 2-3/8" O.D. GALVANIZED HORIZONTAL ROUND HOLLOW STEEL PIPE
 - 4 2" DIAMOND MESH 9 GAUGE CHAIN LINK FENCE
 - 5 2-7/8" O.D. GALVANIZED VERTICAL ROUND HOLLOW STEEL PIPE
 - 6 TENSION ROD @ ENDS
 - 7 1-1/2" MAX SEPERATION FROM BOTTOM OF BOARD TO POST TENSION CONC. SLAB
 - 8 CONCRETE FOOTING
 - 9 COMPACTED SUBGRADE TO 95% MAX DENSITY
 - 10 1'-0" CRUSHED GRAVEL FLEX BASE
 - 11 FINISH GRADE
 - 12 CONCRETE MOW CURB, REFER TO SITE PLANS FOR LOCATIONS

ELEVATION

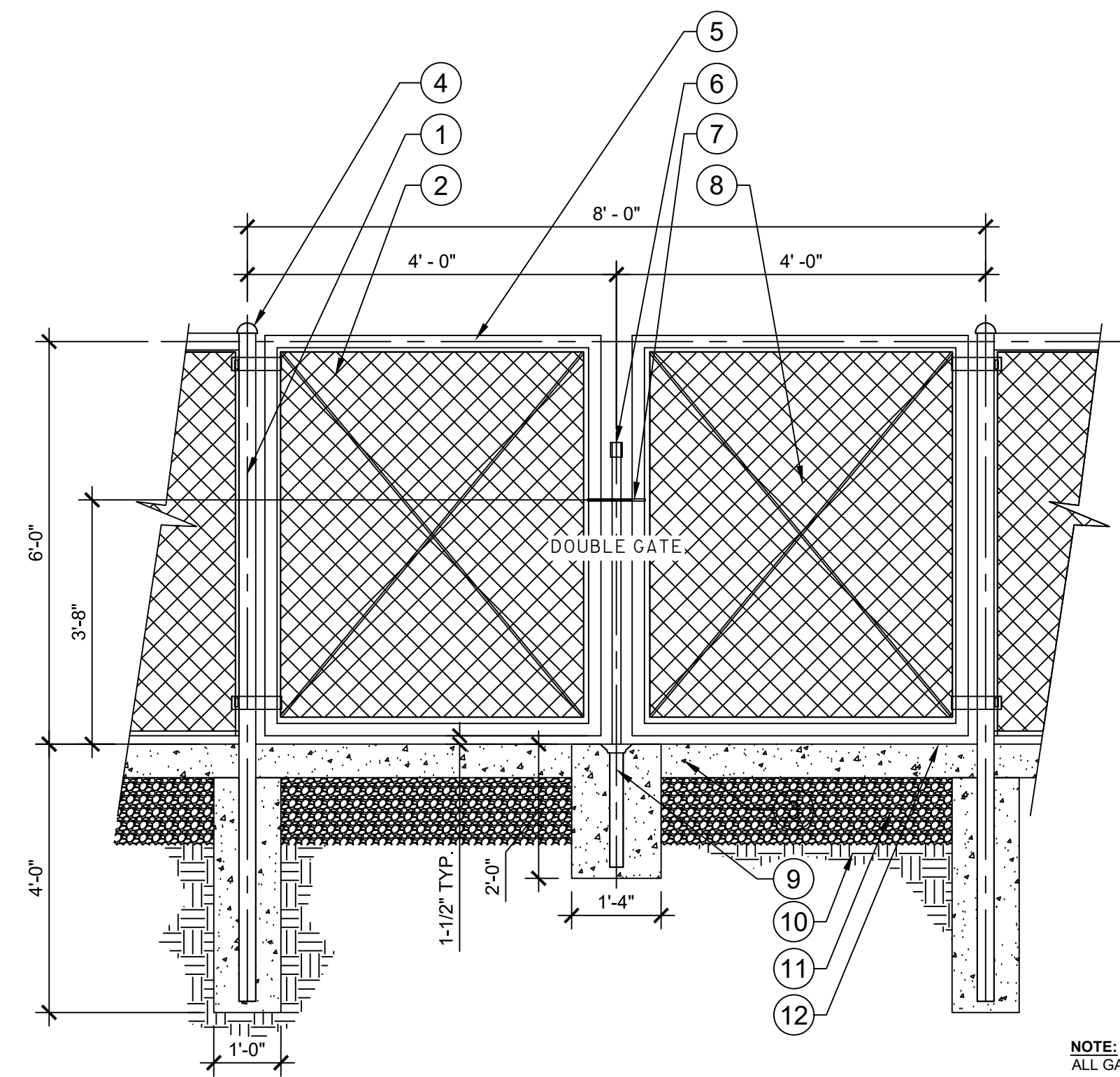
1 6FT GALVANIZED CHAIN LINK FENCE W/ ALT #1 MOW STRIP
1/2" = 1'-0"

NOTE:
TOP OF FENCE POST FOOTING TO BE 6 INCHES BELOW GRADE TO ALLOW FOR CONTINUOUS/CLEAN MOWSTRIP.



- KEY:**
- 1 3" X 3" LINE POSTS @ 8' O.C. W/ NEWEL CAP
 - 2 1/2" SOLID STEEL PICKETS @ 4" O.C.
 - 3 3/4" SOLID STEEL PICKETS @ 1'-0" O.C.
 - 4 1-1/2" X 1-1/2" SQUARE TUBULAR STEEL TOP RAIL
 - 5 1-1/2" X 1-1/2" SQUARE TUBULAR STEEL BOTTOM RAIL
 - 6 1-1/2" MAX SEPERATION FROM BOTTOM OF BOARD TO POST TENSION CONC. SLAB
 - 7 CONCRETE FOOTING
 - 8 COMPACTED SUBGRADE TO 95% MAX DENSITY
 - 9 1'-0" CRUSHED STONE FLEX BASE
 - 10 CONCRETE MOW STRIP, REFER TO SITE PLANS FOR LOCATIONS

3 6' METAL FENCE WITH ALT #1 MOW STRIP
1/2" = 1'-0"

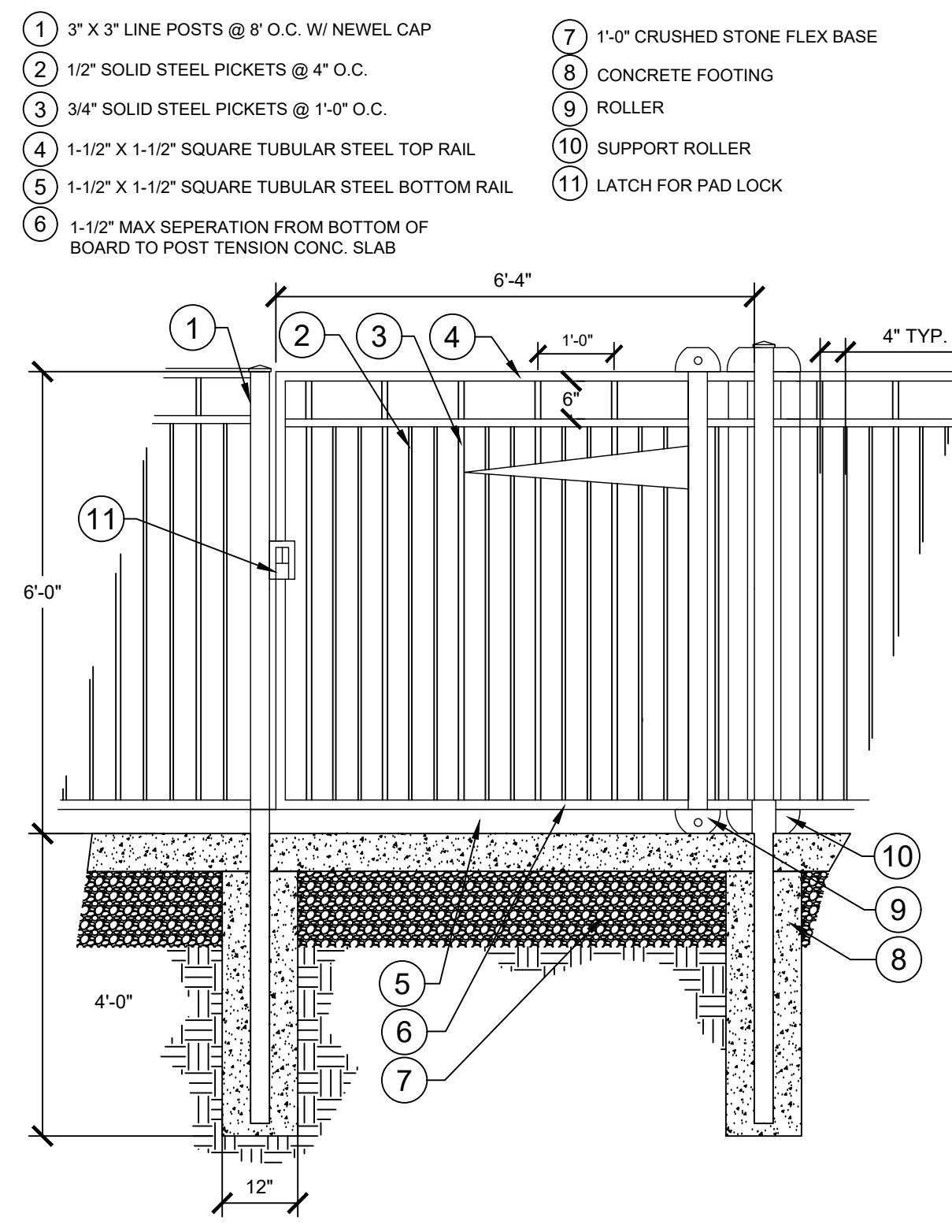


- KEY:**
- 1 4" DIA. STEEL POST, VERTICAL BEAM WITH 4" SQUARE ALUMINIUM TENSION BANDS AT 16" O.C. POST TO BE LOCATED AT 10'-0" O.C. MAX.
 - 2 6 GAUGE CHAIN LINK FENCE
 - 3 6" THICK CONCRETE MOW STRIP
 - 4 GALVANIZED STEEL CAPS, TYP.
 - 5 2" O.D. FRAME
 - 6 PLUNGER ROD
 - 7 LATCH FORK, LOCK KEEPER, GUIDE (USE APPROPRIATE FOR SINGLE AND DOUBLE GATES)
 - 8 3/8" TRUSS RODS, TYP.
 - 9 PLUNGER ROD CATCH SET IN CONCRETE
 - 10 COMPACTED SUBGRADE TO 95% MAX DENSITY
 - 11 1'-0" CRUSHED STONE FLEX BASE
 - 12 FINISHED GRADE

ELEVATION

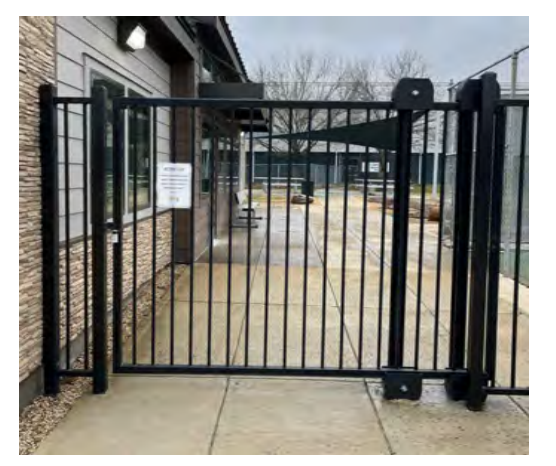
2 6FT GALVANIZED CHAIN LINK DOUBLE GATE WITH ALT #1 MOW STRIP
N.T.S.

NOTE:
ALL GATES SHALL HAVE A MINIMUM OF 60" OF MANEUVERING CLEARANCE PERPENDICULAR TO THE GATE OPENING ON THE PULL SIDE AND 18" OF MANEUVERING CLEARANCE EXTENDED FROM THE LATCH SIDE OF THE GATE. THESE CLEARANCE AREAS SHALL HAVE A SLOPE NO GREATER THAN 1:48.



- KEY:**
- 1 3" X 3" LINE POSTS @ 8' O.C. W/ NEWEL CAP
 - 2 1/2" SOLID STEEL PICKETS @ 4" O.C.
 - 3 3/4" SOLID STEEL PICKETS @ 1'-0" O.C.
 - 4 1-1/2" X 1-1/2" SQUARE TUBULAR STEEL TOP RAIL
 - 5 1-1/2" X 1-1/2" SQUARE TUBULAR STEEL BOTTOM RAIL
 - 6 1-1/2" MAX SEPERATION FROM BOTTOM OF BOARD TO POST TENSION CONC. SLAB
 - 7 1'-0" CRUSHED STONE FLEX BASE
 - 8 CONCRETE FOOTING
 - 9 ROLLER
 - 10 SUPPORT ROLLER
 - 11 LATCH FOR PAD LOCK

4 6' METAL SLIDING GATE
1/2" = 1'-0"

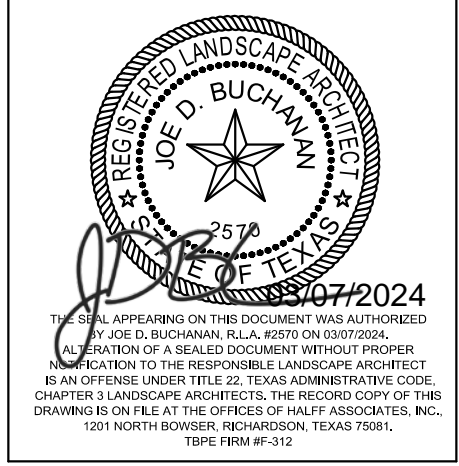


NOTE:
1. CONTRACTOR TO MATCH EXISTING SLIDING GATE LOCATED ON THE NORTH EAST SIDE OF THE EXISTING CLUBHOUSE (SHOWN IN PHOTO).
2. CONTRACTOR TO PROVIDE SHOP DRAWINGS OF SLIDING GATE FOR REVIEW PRIOR TO INSTALLATION.

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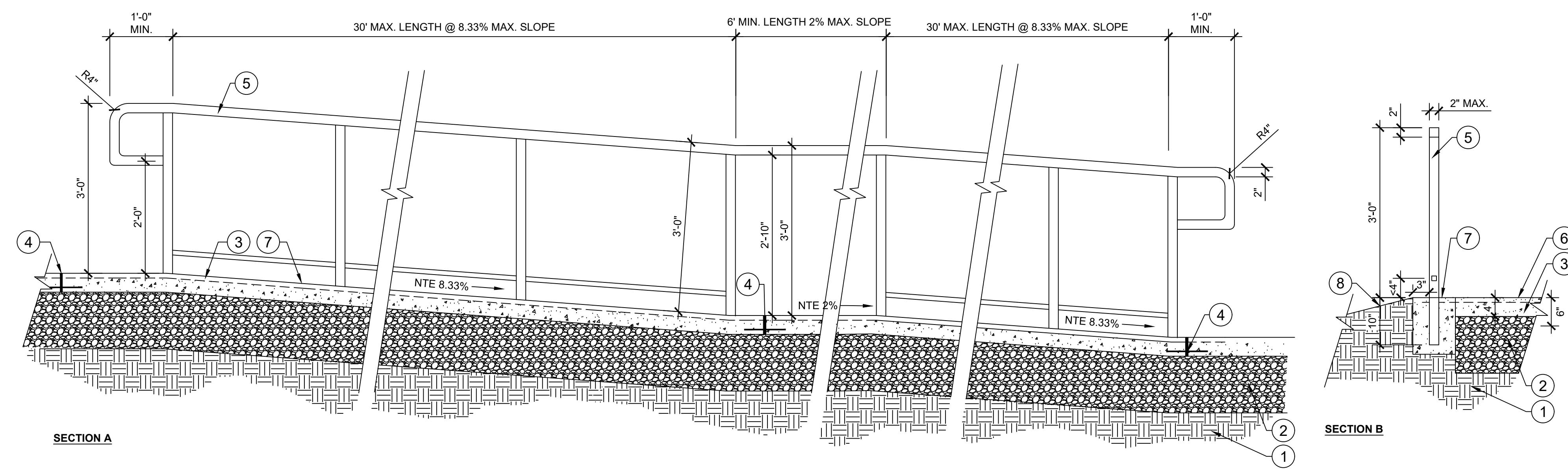


PROJECT NO.: 53890.001
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SCALE: AS NOTED
SHEET TITLE

SITE
DETAILS

L2.02

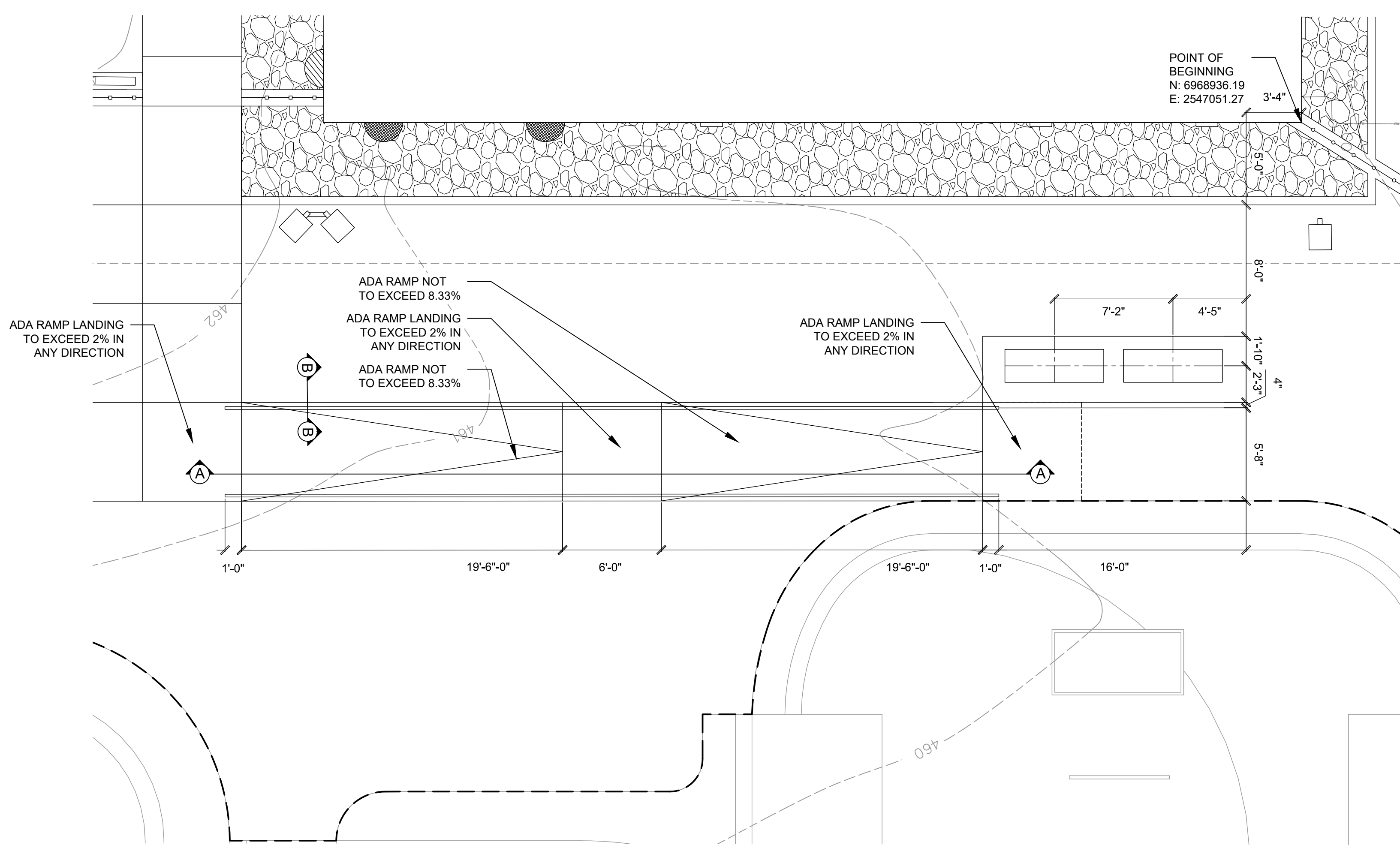
FILE NAME: \\halff\ap\ZNA\VO\53890\01\LACADD\Sheets\L4.00- SITE PLAN.dwg DATE: March 7, 2024, TIME: 9:46 AM, USER: ah5246 AVO: 53890.001



- KEY:**
- ① COMPACTED SUBGRADE TO 95% MAX. DENSITY.
 - ② 1'-0" CRUSHED STONE FLEX BASE
 - ③ 5" CONCRETE, 4000 PSI, ROCK SALT FINISH PERPENDICULAR TO DIRECTION OF TRAVEL. REIN. W/ #3 BARS AT 18" O.C. W TO BE PLACED 3/4"-1" MAX. BELOW FINISHED SURFACE ON PLASTIC CHAIRS.
 - ④ EXPANSION JOINT. REFER TO SIDEWALK DETAIL
 - ⑤ HANDRAIL - 2" O.D. MAX STAINLESS STEEL ROUND POSTS FABRICATED PER DIMENSIONS SHOWN. POSTS REQUIRED AT END OF HANDRAIL AS SHOWN AND AT 5 FT. O.C. MAX. FOR ENTIRE RAMP LENGTH RUN. HANDRAIL TO BE CONTINUOUS FOR STAIRS. PROVIDE 1" O.D. ROUND RAILS AT 10" O.C. ENTIRE LENGTH OF RAIL BETWEEN TOP AND BOTTOM RAIL. BOTTOM RAIL 4" ABOVE FINISHED GRADE MAX. POSTS TO BE FLANGE MOUNTED, GALVANIZED FINISH. SUBMIT SHOP DRAWINGS FOR APPROVAL BY LANDSCAPE ARCHITECT.
 - ⑥ ADJACENT 4" CONCRETE WALKWAY. REF. DETAIL
 - ⑦ MOUNTED HANDRAIL, 10" DEEP TURNDOWN ON EDGE OF RAMP. CORE DRILL POSTS AND EPOXY SET. CONTRACTOR TO SELECT PRODUCT FOR APPROVAL BY LANDSCAPE ARCHITECT
 - ⑧ FINISH GRADE

1 HANDRAIL AT RAMP
3/4" = 1'-0"

P-TR-WSP-32



2 SITE PLAN ENLARGEMENT
SCALE: 1" = 5'-0"

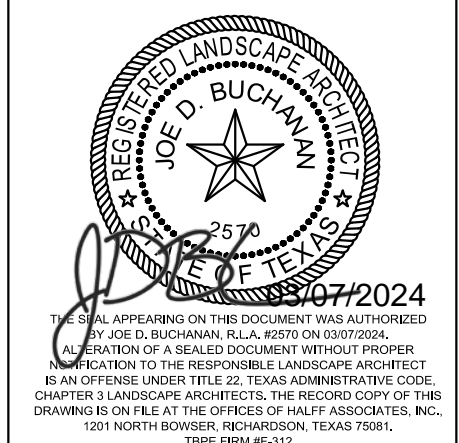


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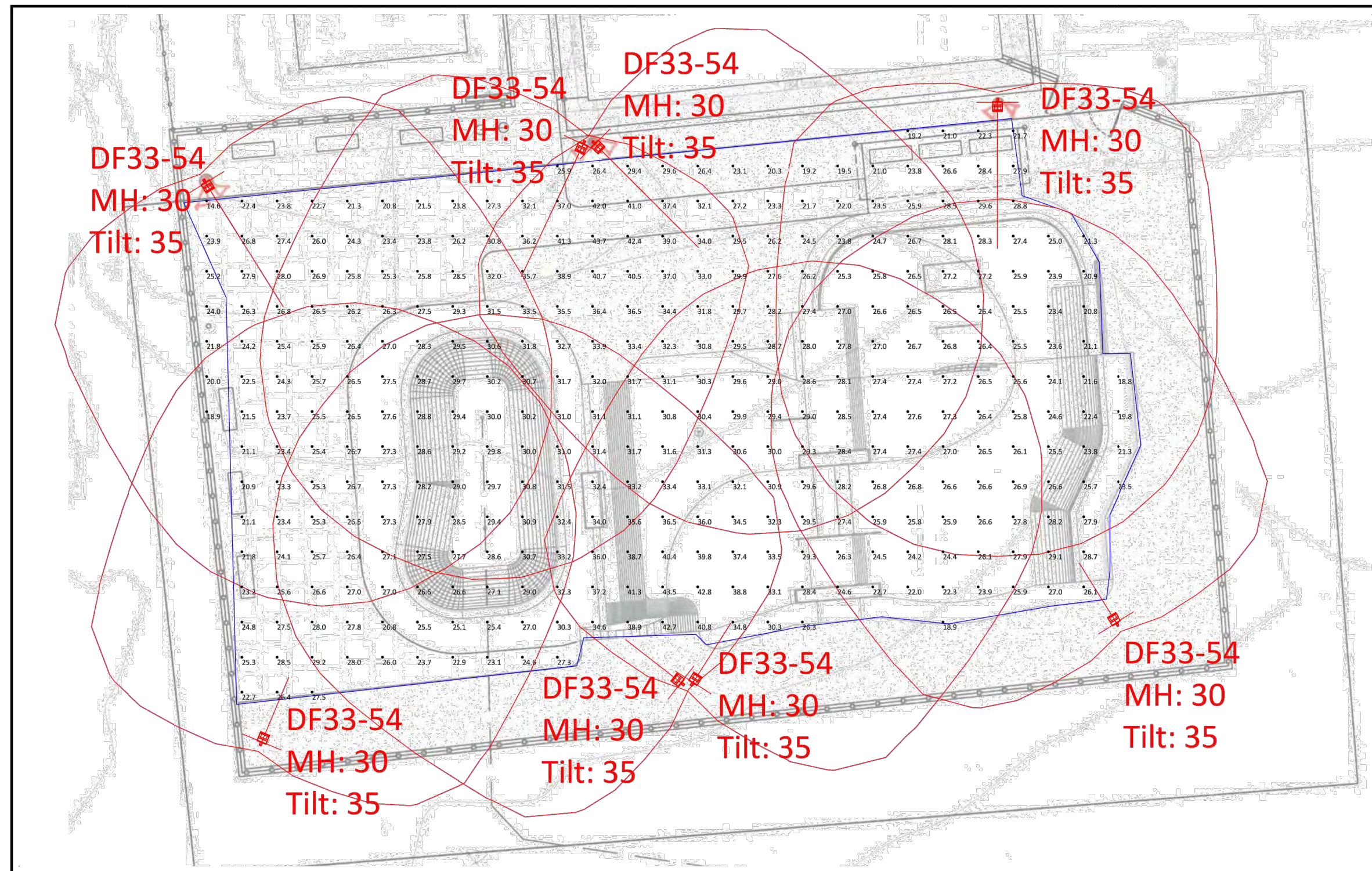
REVISION NO.	DATE	DESCRIPTION



PROJECT NO.: 53890.001
ISSUED: MARCH 2024
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SCALE: AS NOTED
SHEET TITLE
SITE DETAILS AND ENLARGEMENT

L2.03

FILE NAME: \\half\p\Z\NA\VOSS\000\53890\01\LACADD\Sheets\L2.00 - SITE PLAN.dwg DATE: March 7, 2024, TIME: 9:46 AM, USER: ah5246, AVO: 53890.001



City of Mesquite
Westlake skate park lighting study

Disclaimer: This photometric study, as an instrument of service, is provided by, and is the property of Voss Lighting. All dimensions and luminaire locations represent recommended positions based upon project specifications provided to Voss Lighting. The project engineer and/or architect must determine applicability of the layout to existing field conditions. The calculations contained herein represent illumination levels taken from a laboratory setting under controlled conditions, in accordance with the IESNA approved methods. Actual or measured values may differ from forecasted results due to variations in electrical voltage, tolerance levels, obstructions, other light sources, and other variables that were not considered when this report was generated. It is the sole responsibility of the architect, owner, or owner's representative to ensure compliance with any applicable design standards and codes in effect.

Drawn By: B Whiting
Date: 12/14/2023
Scale

Calc Grid 10 ft X 10 ft @ finish grade. Red Lines = 4 Fc

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Page 1 of 2

Luminaire Schedule								
Scene:								
Symbol	Qty	Label	Arrangement	Lum. Lumens	LLF	Description	Lum. Watts	Total Watts
	8	DF33-54	Single	54642	0.950	LED FLOOD A33	459.1	3672.8

Calculation Summary							
Scene:							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Calc_Pts_Fc_at_Grade	Illuminance	Fc	28.09	43.7	14.6	1.92	2.99

All values shown are horizontal footcandle (Fc) at grade. Values do not represent obstruction from equipment, structures, or other objects. Values do not represent contribution from daylight penetration, or other light sources.

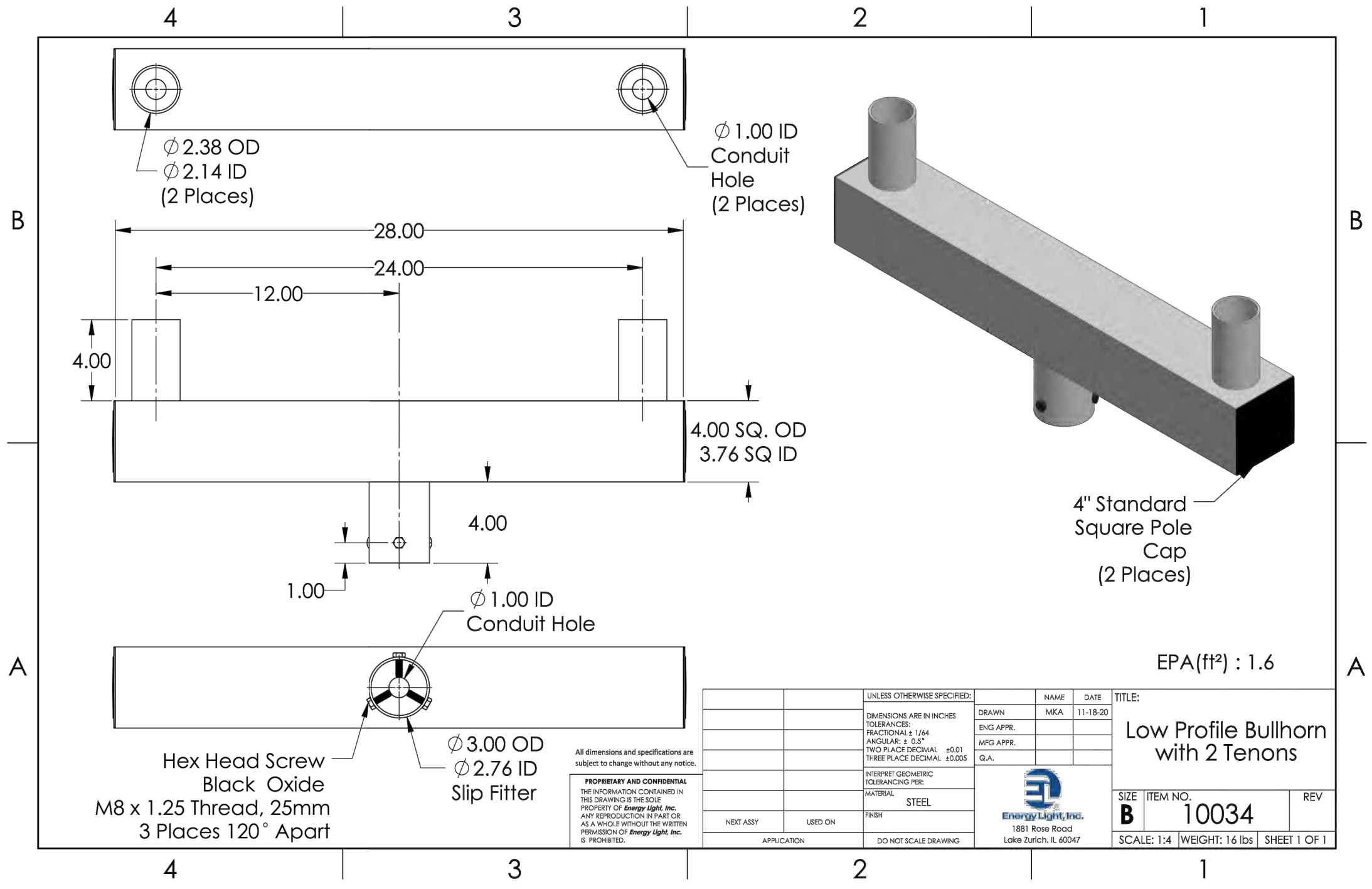
Pole Modification Disclaimer: Any modifications made to an existing pole, including, but not limited to, retrofitting the existing luminaire, reducing or increasing the total number of luminaires, and the addition of accessories such as bullhorns, adapter arms, mounting brackets, etc., may significantly affect the designed performance of the existing pole. Verification of the pole manufacturer's designed characteristics and limitations is not the responsibility of Voss Lighting.

Disclaimer: This photometric study, as an instrument of service, is provided by, and is the property of Voss Lighting. All dimensions and luminaire locations represent recommended positions based upon project specifications provided to Voss Lighting. The project engineer and/or architect must determine applicability of the layout to existing field conditions. The calculations contained herein represent illumination levels taken from a laboratory setting under controlled conditions, in accordance with the IESNA approved methods. Actual or measured values may differ from forecasted results due to variations in electrical voltage, tolerance levels, obstructions, other light sources, and other variables that were not considered when this report was generated. It is the sole responsibility of the architect, owner, or owner's representative to ensure compliance with any applicable design standards and codes in effect.

Drawn By: B Whiting
Date: 12/14/2023
Scale

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Page 2 of 2



NOTES:
1. CONTRACTOR TO PROVIDE ELECTRICAL PLANS FOR ELECTRIC POLE CONNECTIONS, DESIGNED, AND INSTALLED BY OR UNDER THE SUPERVISION OF A LICENSED ELECTRICIAN IN THE STATE OF TEXAS.

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MESQUITE, TEXAS

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T E X A S

half
1201 NORTH BOWSER ROAD
MESQUITE, TEXAS 75061-1275
TEL: (214) 346-6200

QS30S5SQ188 30 Foot Square Steel Light Pole, 5 Inch Width, 7 Gauge, Dark Bronze, Quick Ship

Job Site: _____ State: _____ Client Name: _____
Notes: _____ Approvals: _____ Date: _____

Product Description:
Pole Top Options: A removable pole cap is provided if the pole is drilled for attaching light fixtures. The drill pattern and drill orientation needs to be provided by the customer unless Energy Light fixtures are used for the project. If tenon option is selected, a steel tenon will be provided.
A 2 3/8 inch diameter tenon with 4 inch length is standard; however, the customer needs to confirm the appropriate tenon size required for the project.
Pole Shaft and Height: 5 inch square 7 gauge commercial grade steel with minimum yield strength of 50,000 psi. Pole height is 30 ft.
Handhole: Reinforced 3"x5" size handhole is located at 18 inches from the base. A ground lug with set screw is located near the handhole opening for proper grounding of the pole.
Color: Dark Bronze.
Anchor Bolts: A set of 4 galvanized steel anchor bolts is provided with each pole assembly. Each anchor bolt includes 2 nuts and 2 washers. Top portion of the anchor bolt is threaded for securing and leveling the pole with the provided nuts and washers. An actual size paper anchor bolt template is provided.
Bolt Circle: 11" (Bolt Circle Range 10 1/2"-12")
Base Cover: Two-piece ABS plastic base cover is provided.
Warranty: 1 Year.
Foundation design: Foundation should be designed by an engineer familiar with local soil and wind conditions as well as local code where the pole(s) will be installed.

MAXIMUM EPA (Square Feet)						Pole Weight (lbs)
90 mph	100 mph	110 mph	120 mph	130 mph	140 mph	
11.7	8.0	7.0	4.7	2.9	1.5	390

Removable Pole Cap (Optional)
Drilling per Customer Specifications
Pole Height 30'
Handhole Cover
2-Piece Base Cover
Base Plate
Anchor Bolt 1"x36"x4"

Disclaimer: All dimensions and specifications are subject to change without any notice. Energy Light, Inc. is not responsible for any claims arising from improper loading (what is attached to the light pole), improper use, incorrect foundation design and/or installation.

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FLDL DuraForm
Large floodlight

Accessories ** (ordered separately, field installed - mounting hardware included, uses dedicated mounting holes - do NOT remove lens)

FLDL-VSR (F) Visor, top or bottom, painted same finish to match luminaire (specify finish at placeholder F, can not be used with GSH)
FLDL-GSH (F) Glass Shield, left or right, painted same finish to match luminaire (specify finish at placeholder F, can not be used with VSR)
FLDL-WWG Wire Guard (nestable and can be used with either VSR or GSH)

** Consult Signify to confirm whether specific accessories are BAA-compliant.

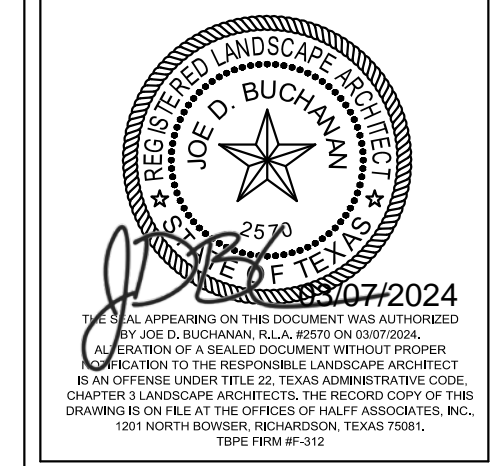
Dimensions:
SFC Luminaire weight: 36 lbs (16.3 kg)
SLF Luminaire weight: 36 lbs (16.3 kg)
YOK Luminaire weight: 43 lbs (19.5 kg)

Yoke mount detail:
7-pin NEMA Twist Lock Receptacle option Aiming limited to 0-90° per ANSI C136.10

Mounting	Effective Projected Area (EPA-F1)		
	Single: 0° Aim	Single: 45° Aim	Single: 90° Aim
SFC or SLF	0.289	2.218	6.202
YOK	0.248	2.389	5.899

DuraForm_FLDL_Flood 11/22 page 2 of 7

REVISION		DESCRIPTION
NO.	DATE	



PROJECT NO.: 53890.001
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SCALE: AS NOTED
SHEET TITLE
LIGHT LAYOUT AND DETAILS
L2.04

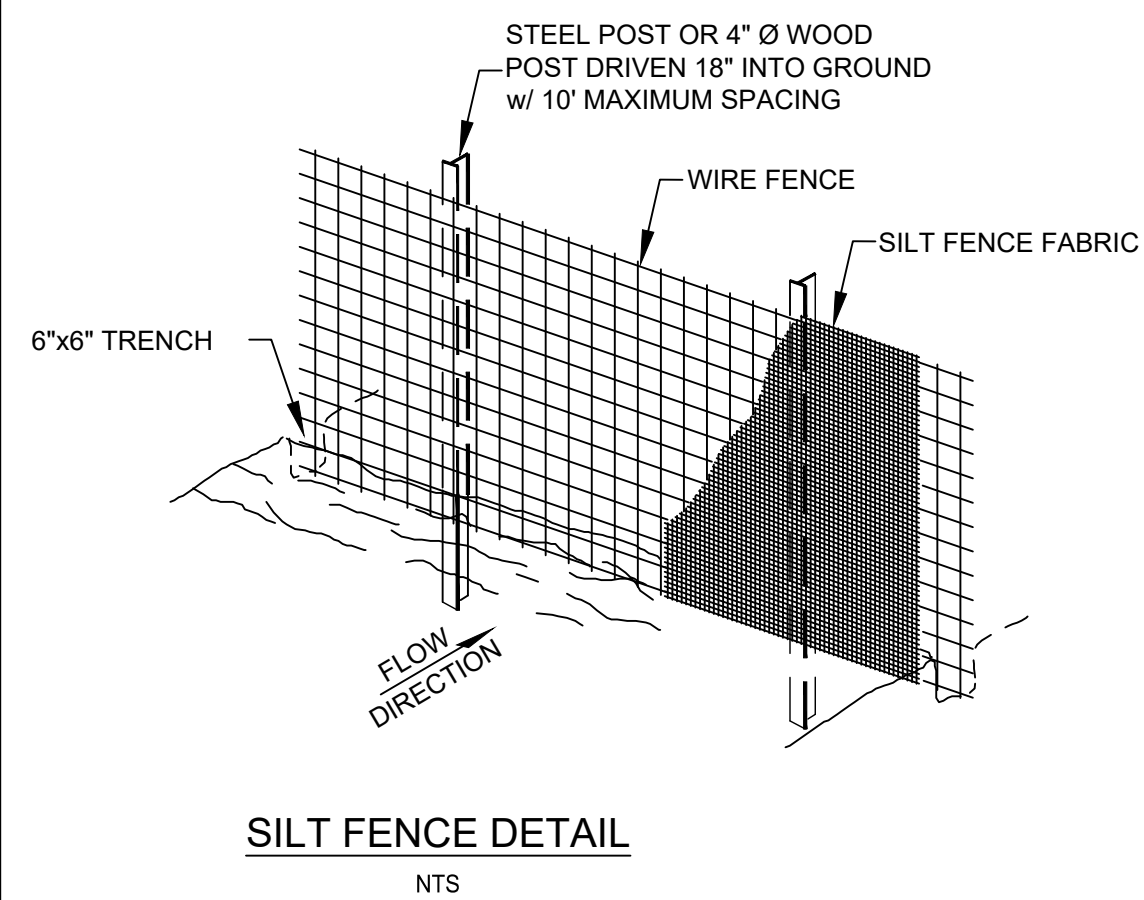
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CAUTION ~ UNDERGROUND AND OVERHEAD UTILITIES!
Underground utilities in area. Contact Texas One Call System (811) two working days prior to construction.
Tele: 1-800-245-4545

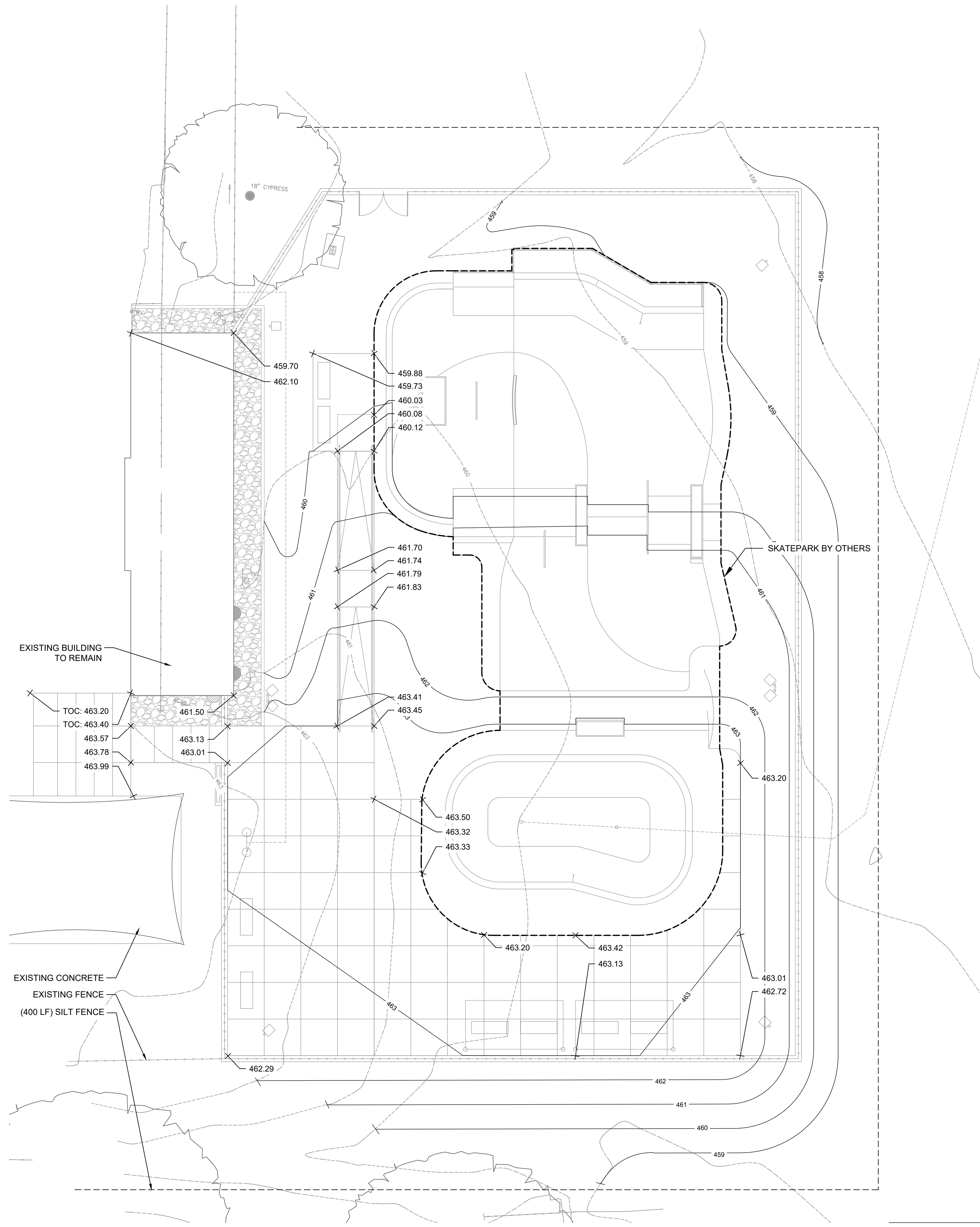
EROSION CONTROL LEGEND
 - - - - - SILT FENCE
 _____ PROPOSED CONTOURS

- NOTES:**
- STEPS FOR CONSTRUCTION:**
1. DRIVE POST 18" INTO GROUND AND EXCAVATE A 6"x6" TRENCH UPHILL ALONG THE LINE OF POST.
 2. ATTACH WIRE FENCE TO THE POST AND EXTEND BOTTOM OF FENCE 6" INTO THE EXCAVATED TRENCH.
 3. ATTACH THE SILT FABRIC TO THE WIRE FENCE AND EXTEND THE BOTTOM OF THE FABRIC 6" INTO THE TRENCH.
 4. BACKFILL THE TRENCH WITH SOIL & COMPACT OR PLACE WASHED STONE TO THE HEIGHT OF 6" ABOVE GROUND LEVEL. BOTTOM OF FENCE MUST BE ANCHORED SO THAT RUNOFF IS FORCED THROUGH THE FENCE AND CAN NOT GO UNDER IT.

- INSPECTION & MAINTENANCE:**
1. INSPECTION OF FENCES SHALL BE FREQUENT AND REPAIR OR REPLACEMENT MADE PROMPTLY AS NEEDED.
 2. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6" AND DISPOSED OF PER OWNER/ENGINEER.



1 SILT FENCE DETAIL
N.T.S.

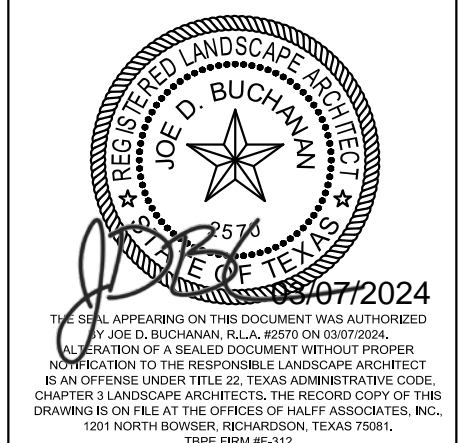


2 EROSION CONTROL AND GRADING PLAN
SCALE: 1" = 10'-0"

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SKATE PARK
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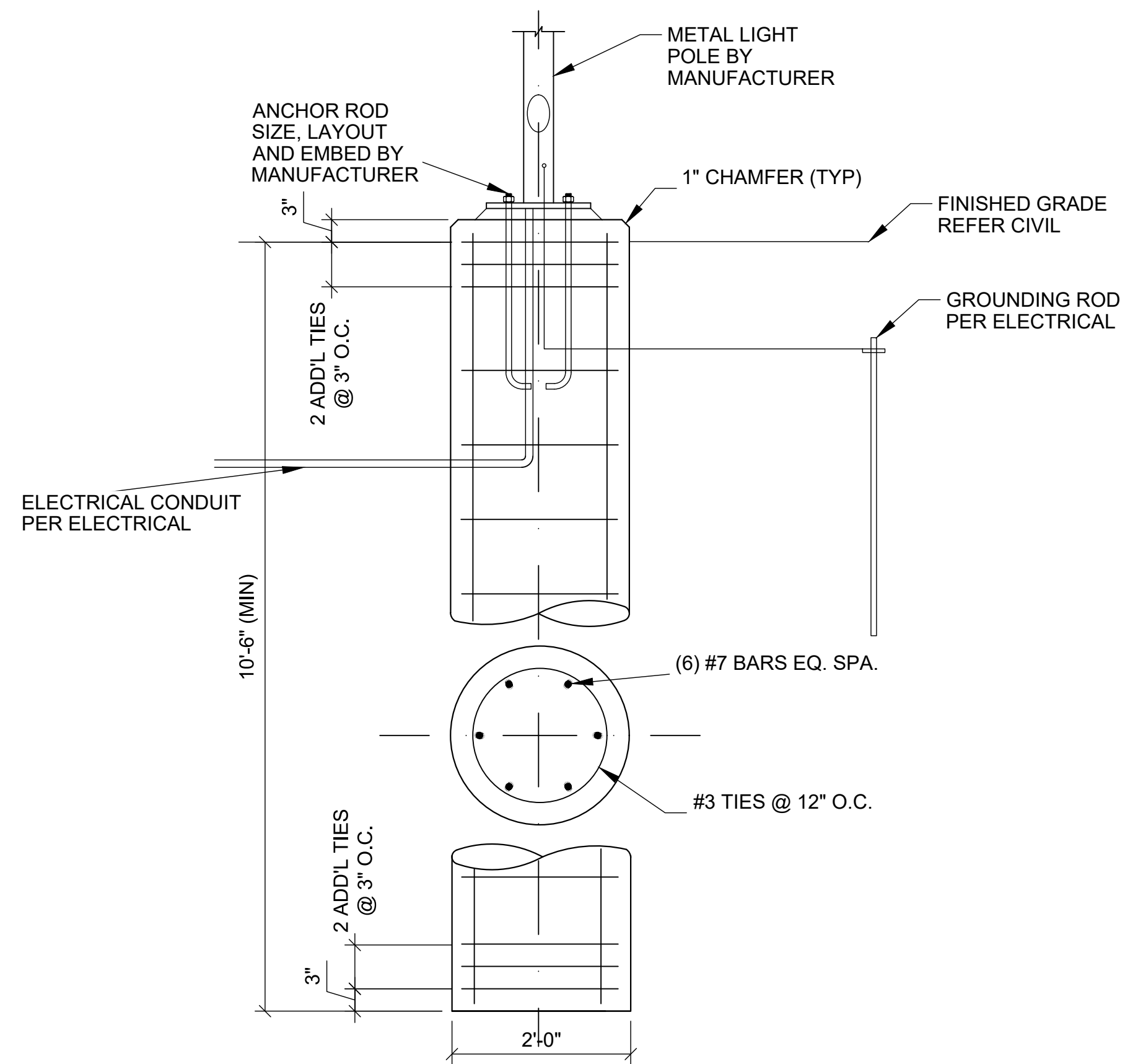


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 SCALE: AS NOTED
 SHEET TITLE
EROSION CONTROL AND GRADING PLAN

L3.00

NOTES:

1. LIGHT POLE BASE IS DESIGNED PER IBC 2021. DESIGN WIND SPEED = 115 MPH (3-SEC GUST).
2. THE DESIGN IS BASED ON A LIGHT POLE HEIGHT OF 30 FEET. LIGHT POLE WIDTH OF 5 INCHES, AND A LIGHT FIXTURE EPA OF 2.7 SQUARE FEET. IF POLE HEIGHT, DIAMETER, OR FIXTURE EPA DIFFER FROM THESE VALUES, CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD.
3. CONCRETE SHALL BE CLASS C WITH COMPRESSIVE STRENGTH AT 28 DAYS (f_c) OF 3,600 PSI.
4. STEEL REINFORCING BARS SHALL CONFORM TO ASTM A615, GRADE 60.
5. ALL CONCRETE ADDITIVES SHALL BE USED IN ACCORDANCE WITH MANUFACTURERS DIRECTIONS. USE OF CALCIUM CHLORIDE IS PROHIBITED.
6. THE CONTRACTOR SHALL VERIFY THAT THE ANCHOR ROD PATTERN FOR THE LIGHT POLE WILL FIT WITHIN THE PIER CAGE REINFORCING BEFORE PROCEEDING WITH THE WORK.
7. CONTRACTOR SHALL COORDINATE ELECTRICAL WIRING AND GROUNDING REQUIREMENTS WITH LIGHT MANUFACTURER BEFORE PROCEEDING WITH THE WORK.

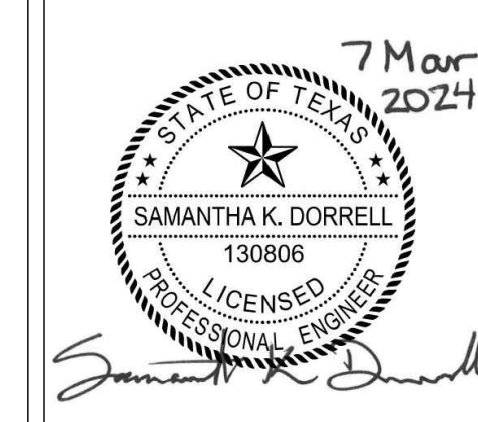


1 TYPICAL LIGHT POLE FOUNDATION
SCALE: 3/4" = 1'-0"

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Revision No.	Date	Description



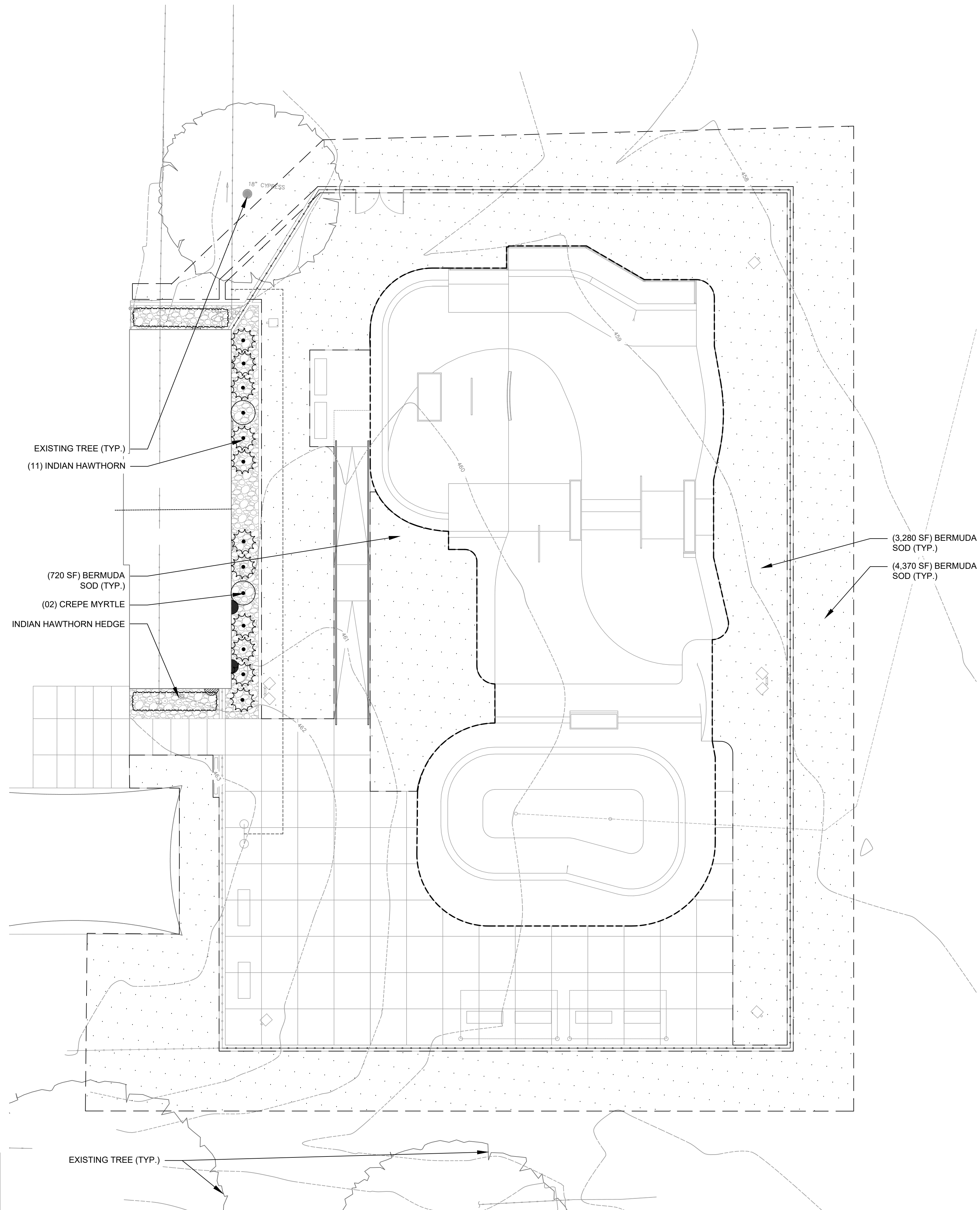
THE SEAL APPEARING ON THIS DOCUMENT WAS AUTHORIZED BY SAMANTHA K. DORRELL, P.E. NO. 130806, ON 7 MARCH 2024. ALTERATION OF A SEALED DOCUMENT WITHOUT THE PRIOR NOTIFICATION TO THE RESPONSIBLE ENGINEER IS AN OFFENSE UNDER THE TEXAS ENGINEERING PRACTICE ACT. THE RECORD COPY OF THIS DRAWING IS ON FILE AT THE OFFICES OF HALFF ASSOCIATES, INC. 1201 N. BOWSER RD, RICHARDSON, TX 75081. TBPELS #F-312

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Sheet Title	

TYPICAL LIGHT POLE BASE

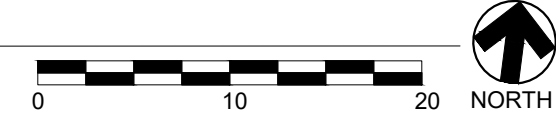
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Sheet Number

FILE NAME: \\halff\ap\ZNA\VO\53890\01\LANDSCAPE.dwg DATE: March 7, 2024, TIME: 9:47 AM, USER: ah6246 AVO: 53890.001



NOTE:
 THAT CONTRACTOR IS RESPONSIBLE FOR SOD
 ESTABLISHMENT OUTSIDE THE FENCELINE UNTIL FINAL
 ACCEPTANCE ONLY. NO WARRANTY FOR SOD WITHOUT
 PERMANENT IRRIGATION.

1 LANDSCAPE PLAN
 SCALE: 1" = 10'-0"



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 MESQUITE, TEXAS**

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 RICHARDSON, TEXAS 75081-2275
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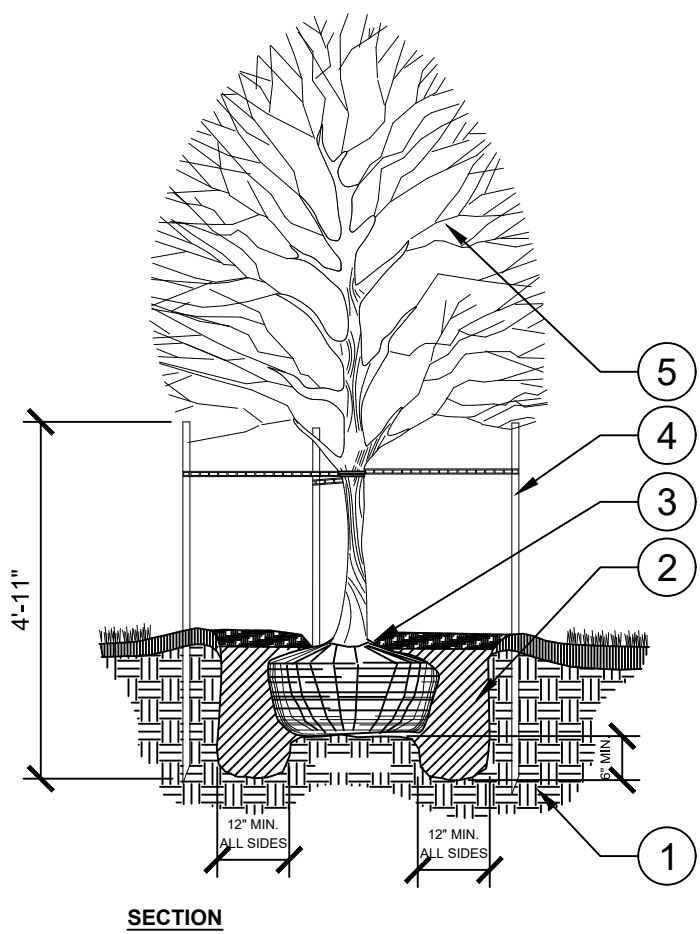
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 SHEET TITLE

LANDSCAPE PLAN

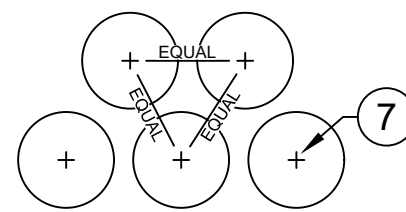
L5.00

LANDSCAPE NOTES / SPECIFICATIONS:

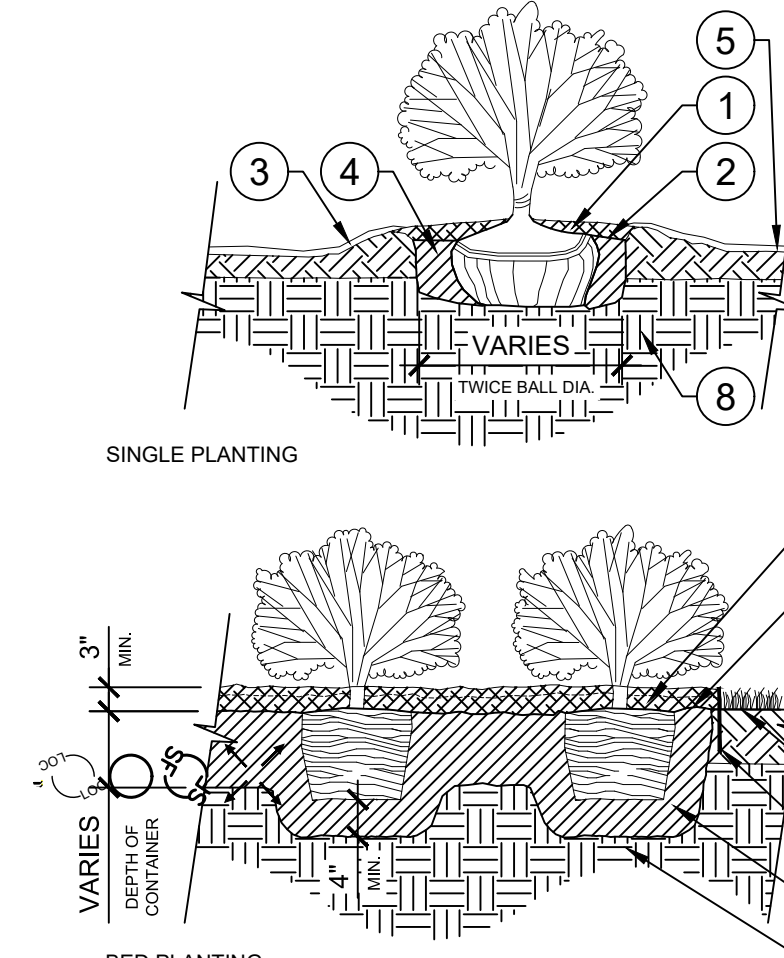
- EXISTING CONDITIONS: THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING BID PROPOSAL, TO BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK. THE LANDSCAPE CONTRACTOR SHALL IDENTIFY AND REVIEW ALL UNDERGROUND UTILITY LOCATIONS PRIOR TO COMMENCING WORK AND SHALL EXERCISE EXTREME CAUTION WHEN WORKING CLOSE TO UTILITIES, AND SHALL NOTIFY THE OWNER'S REPRESENTATIVE OF APPARENT CONFLICTS WITH CONSTRUCTION AND UTILITIES SO THAT ADJUSTMENTS CAN BE PLANNED PRIOR TO INSTALLATION. CONTACT THE LOCAL UNDERGROUND UTILITY SERVICES FOR UTILITY LOCATION AND IDENTIFICATION. THE LANDSCAPE CONTRACTOR BEARS FULL RESPONSIBILITY FOR THIS WORK AND DISRUPTION OR DAMAGE TO UTILITIES SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER.
- ALL SITE FEATURES INCLUDING LIGHTS AND OTHER UTILITIES, ABOVE AND BELOW GRADE, TO BE VERIFIED ON SITE PRIOR TO PLANTING AND IRRIGATION INSTALLATION. NOTIFY OWNER'S REPRESENTATIVE TO MAKE ADJUSTMENTS PRIOR TO INSTALLATION.
- LAYOUT AND GRADING: THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ACCURATELY LAYING OUT THE PLANT BEDS BY SCALING THE DRAWINGS. LAYOUT SHALL BE PAINTED OR STAKED ON THE GROUND FOR REVIEW AND APPROVAL OF OWNER'S REPRESENTATIVE PRIOR TO EXCAVATION. FOLLOWING APPROVAL OF LAYOUT, CLOSELY COORDINATE THE INSTALLATION OF THE IRRIGATION SYSTEM TO CONFORM TO THE APPROVED LAYOUT.
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING OF THE TURF AND PLANTING AREAS. THE LANDSCAPE CONTRACTOR AND OWNER SHALL REVIEW THE EXTENT OF GRADING OF AREA PRIOR TO COMMENCING WORK. ENTIRE SITE SHALL BE GRADED TO FINISH GRADE PRIOR TO SCHEDULING PLANTING INSTALLATION.
- TURF AREAS SHALL BE RAKED SMOOTH, REMOVING AND DISPOSING OF STONES OVER 1" DIAMETER AND STICKS, ROOTS, AND OTHER EXTRANEIOUS MATTER AND LEGALLY DISPOSING OF THEM OFF OWNER'S PROPERTY. ALL AREAS SHALL BE FINE GRADED TO ACHIEVE POSITIVE DRAINAGE WITHOUT PUDDLES OR STANDING WATER AND FEATHER INTO NATURAL GRADE. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES TO WITHIN PLUS OR MINUS 1/2 INCH OF FINISH ELEVATION. LIMIT FINISH GRADING TO AREAS THAT CAN BE PLANTED IN THE IMMEDIATE FUTURE.
- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION CONTROL OF SLOPED AREAS. CONTRACTOR TO RESTORE TURF OR PLANTING AREAS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING.
- PLANT BEDS: THE LANDSCAPE CONTRACTOR SHALL EXCAVATE FULLY PREPARED PLANT BEDS AS REQUIRED TO ACCOMMODATE A FULL 6" OF PREPARED SOIL AND 2" MULCH LAYER. CLEAN, NATIVE TOPSOIL REMOVED FROM THESE BEDS MAY BE SPREAD ON NEARBY AREAS TO BE SODDED OR SEEDED.
- PREPARED SOIL MIX SHALL CONSIST OF 4" IMPORTED TOPSOIL AND 2" COMPOST, THOROUGHLY BLENDED TOGETHER. FOLLOWING EXCAVATION, PLACE PREPARED SOIL MIX IN THESE PLANT BEDS. CREATE POSITIVE DRAINAGE IN LANDSCAPE AREAS AWAY FROM ALL BUILDINGS AND STRUCTURES. THIS MIX SHALL ALSO BE USED TO BACKFILL PLANTING PITS OF ALL PIT-PLANTED TREES. SUBMIT SAMPLE FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT.
- FINISH GRADES OF SHRUB AREAS AND LAWNS SHALL BE 1" BELOW ADJACENT PAVING OR HEADER.
- LANDSCAPE AREA SHALL BE WEED FREE PRIOR TO PREPARING PLANTING AREAS.
- PLANT BED EDGING: FOLLOWING APPROVAL OF PLANT BED LAYOUT, INSTALL CONCRETE MOW STRIP WHERE INDICATED ON THE DRAWINGS. MAINTAIN AN ACCURATE LAYOUT WITH SMOOTH CURVES AND TRANSITIONS, FREE OF KINKS AND ABRUPT BENDS. TOP OF EDGING TO BE 1" ABOVE SOIL LEVEL OF ADJACENT TURF. DO NOT INSTALL WHERE THE TOP OF EDGING IS ABOVE WALKS OR CURBS OR CREATES A TRIPPING HAZARD. NOTE IN BID PROPOSAL, FURNISH UNIT PRICE PER LINEAR FOOT.
- MULCH: FOLLOWING PLANTING, MULCH "FULLY-PREPARED" BEDS AND MULCHED TREE RINGS WITH 2" LAYER OF SHREDDED HARDWOOD.
- PLANT INSTALLATION, MAINTENANCE AND PRUNING TO BE DONE PER PLANS: ALL PLANTS ARE TO BE WARRANTED (FOR REPLACEMENT) FOR A PERIOD OF ONE YEAR AFTER FINAL ACCEPTANCE OF THE LANDSCAPE INSTALLATION. PROMPTLY REPLACE ANY PLANTINGS DEEMED UNACCEPTABLE BY THE OWNER'S REPRESENTATIVE. REPLACE ANY CRACKED OR DAMAGED TREE STAKES AND SECURE GUY WIRES AS NEEDED.
- PLANTS: ALL PLANTS SHALL BE NURSERY GROWN, GRADE 1 PLANTS MEETING NURSERYMAN ASSOCIATION STANDARDS, TYPICAL IN SHAPE AND SIZE FOR SPECIES. PROVIDE MATCHING FORMS AND SIZES FOR PLANT MATERIALS WITHIN EACH SPECIES AND SIZE DESIGNATED ON THE DRAWINGS. PLANTS SHALL NOT BE ROOT-BOUND NOR LOOSE IN THEIR CONTAINERS. HANDLE ALL PLANTS WITH CARE IN TRANSPORTING, PLANTING AND MAINTENANCE UNTIL INSPECTION AND FINAL ACCEPTANCE. PLANTS SHALL BE INSTALLED TO PRESENT THEIR BEST SIDE FACING THE VIEWER. USE TOTAL QUANTITIES OF PLANTS INDICATED; ADJUST SPACING AS NEEDED TO EVENLY FILL BEDS. OWNER'S REPRESENTATIVE SHALL HAVE FINAL APPROVAL OF PLANT MATERIAL LAYOUT. PRUNE NEWLY PLANTED TREES ONLY AS DIRECTED BY LANDSCAPE ARCHITECT. CUT AND REMOVE BURLAP FROM TOP 1/3 OF BALL (IF B&B MATERIAL IS SPECIFIED OR APPROVED). CALIPER OF MULTI-TRUNK TREES DENOTES MINIMUM CALIPER OF MAJOR TRUNKS. OTHER TRUNKS MUST BE 1/2 SIZE OF MAJOR TRUNK OR LARGER.
- REGULAR CLEAN UP AT THE JOB SITE AND ACCESS ROUTES SHALL TAKE PLACE ON A DAILY BASIS UNLESS OTHERWISE APPROVED OR REQUIRED BY THE OWNER'S REPRESENTATIVE. DEMOLITION AND INSTALLATION SCHEDULING IS TO BE COORDINATED WITH OWNER'S REPRESENTATIVE. DAILY AND ANY BARRIERS/PROTECTIVE DEVICES ARE TO BE INSTALLED AS NEEDED TO PROTECT THE SAFETY OF THE PUBLIC. SPECIAL CARE SHALL BE TAKEN TO KEEP ALL VEHICULAR ROUTES OPEN AND PEDESTRIAN ACCESS UNOBSTRUCTED FOR SAFE PASSAGE DURING DEMOLITION AND CONSTRUCTION.
- CONTRACTOR TO PROVIDE MAINTENANCE FOR DURATION OF WARRANTY PERIOD.
- CONTRACTOR TO PROVIDE IN WRITING TO OWNER A ONE-YEAR REPLACEMENT WARRANTY FOR ALL PLANT MATERIALS. WARRANTY SHALL COVER PLANTS WHICH HAVE DIED OR PARTIALLY DIED (THEREBY RUINING THEIR NATURAL SHAPE), BUT SHALL NOT INCLUDE DAMAGE BY VANDALISM, BROWSING, HAIL, ABNORMAL FREEZES, DROUGHT OR NEGLIGENCE BY THE OWNER. THE WARRANTY IS INTENDED TO COVER CONTRACTOR NEGLIGENCE, INFESTATIONS, DISEASE AND DAMAGE OR SHOCK TO PLANTS. PLANTS REPLACED UNDER WARRANTY WILL BE WARRANTED FOR ONE YEAR FOLLOWING REPLACEMENT.



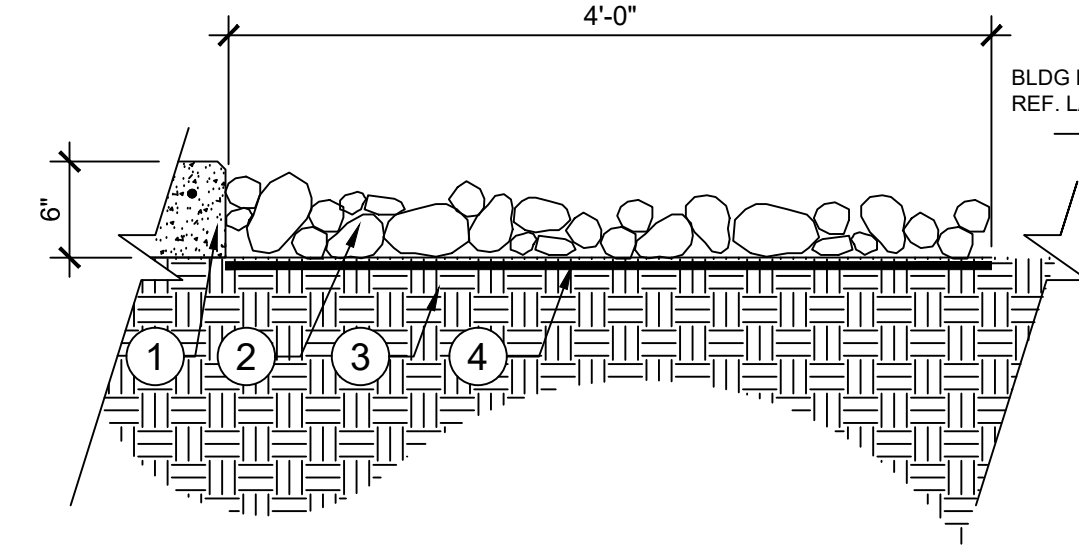
1 TREE PLANTING
3/8" = 1'-0"



2 TYPICAL SOD PLANTING
1" = 1'-0"



3 SHRUB PLANTING (SINGLE & BED PLANTING)
1/2" = 1'-0"



4 DECORATIVE ROCK BED
1" = 1'-0"

PLANTING SCHEDULE

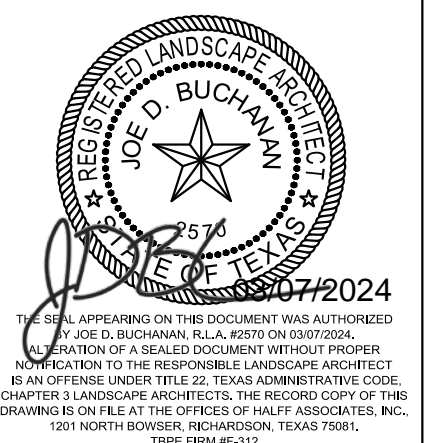
SYMBOL	QTY	BOTANICAL / COMMON NAME	CONT	HT	SPD
SHRUBS					
	2	Lagerstroemia indica / Crape Myrtle	10 GAL. or 15 GAL.	3'	18"-24"
	11	Rhabdialepis indica / Indian Hawthorn	3 gal.	2'	12"-18"
SHRUB AREAS					
	83 sf	Rhabdialepis indica / Indian Hawthorn	3 gal.	24" Ht	12"-15"
GROUND COVERS					
	8,374 sf	Cynodon dactylon 'Tifway 419' / Tifway 419 Bermudagrass	Sod		

NOTE:
1. SOLID SOD ALL AREAS DISTURBED BY CONSTRUCTION WITH TIFWAY 419 BERMUDA GRASS

WESTLAKE
SKATE PARK
MESQUITE, TEXAS



REVISION NO.	DATE	DESCRIPTION



PROJECT NO.:	53890.001
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LANDSCAPE
DETAILS

L5.01

CRITICAL ANALYSIS

Generated: 2024-03-01 10:03

P.O.C. NUMBER: 01
Water Source Information:

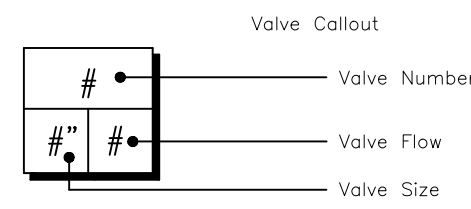
FLOW AVAILABLE
Water Meter Size: 1"
Flow Available: 37.5 GPM

PRESSURE AVAILABLE
Static Pressure at POC: 66 PSI
Elevation Change: 0.00 ft
Service Line Size: 3"
Length of Service Line: 0 ft
Pressure Available: 66 PSI

DESIGN ANALYSIS
Maximum Station Flow: 22.82 GPM
Flow Available at POC: 37.5 GPM
Residual Flow Available: 14.68 GPM

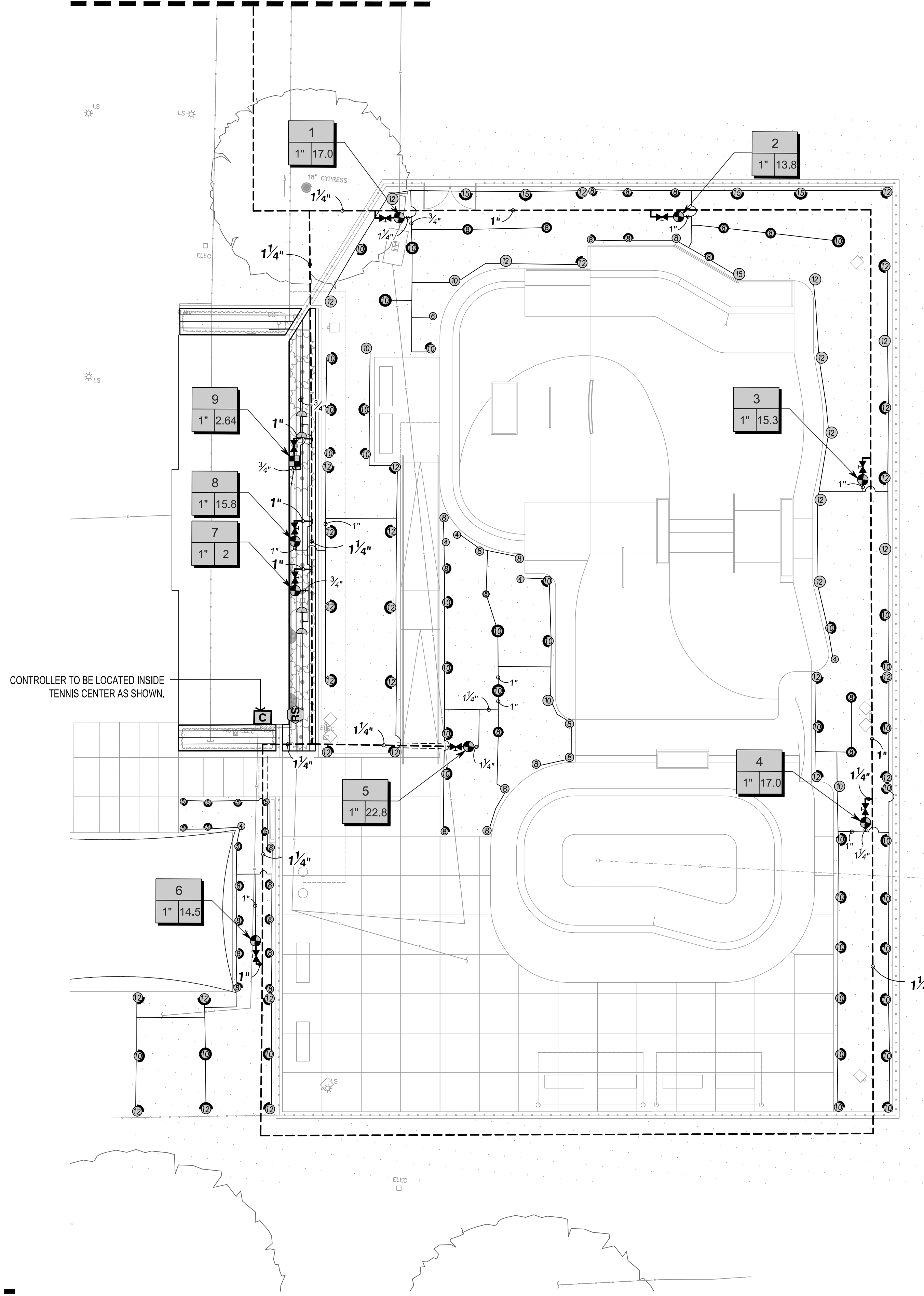
Critical Station: 5
Design Pressure: 30 PSI
Friction Loss: 0.68 PSI
Fittings Loss: 0.07 PSI
Elevation Loss: 0 PSI
Loss through Valve: 2.7 PSI
Pressure Req. at Critical Station: 33.5 PSI
Loss for Fittings: 0.38 PSI
Loss for Main Line: 3.77 PSI
Loss for POC to Valve Elevation: 0 PSI
Loss for Backflow: 13.8 PSI
Loss for Master Valve: 3.61 PSI
Loss for Water Meter: 3.05 PSI
Critical Station Pressure at POC: 58.0 PSI
Pressure Available: 66 PSI
Residual Pressure Available: 7.98 PSI

IRRIGATION SCHEDULE			
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
Q H F	Rain Bird 1804-SAM-PRS 5 Series MPR Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	8	30
Q T H F	Rain Bird 1804-SAM-PRS 8 Series MPR Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	25	30
Q T H F	Rain Bird 1804-SAM-PRS 10 Series MPR Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	39	30
Q T H F	Rain Bird 1804-SAM-PRS 12 Series MPR Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	26	30
Q T H F	Rain Bird 1804-SAM-PRS 15 Series MPR Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	4	30
Q T H F	Rain Bird 1804-SAM-PRS ADJ Turf Spray 4.0in. Pop-Up Sprinkler with Co-Molded Wiper Seal. 1/2in. NPT Female Threaded Inlet. With Seal-A-Matic Check Valve. Pressure Regulating.	30	30
1402	Rain Bird RWS-M-B-C 1400 Series Mini Root Watering System with 4in. diameter x 18in. long with locking grate, semi-rigid mesh tube and Rain Bird 1401 0.25 GPM or 1402 0.5 GPM bubbler as indicated. With Check Valve.	4	20
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	PSI
■	Weathermatic SCZ-MAX-DW-10-25 1" Silver Bullet Control Zone Kit. 1" Silver Bullet RCV, 1" x 3-4" Wye-filter with 25psi Pressure Regulator, 150psi rating.	1	
▨	Area to Receive Dripline Netafim TDL-04-12 Techline Pressure Compensating Landscape Dripline. 0.4 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. Surface and Sub Surface Installations. UV Resistant.	393.6 s.f.	10
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	
⊙	Weathermatic MAX-DW 1" Plastic Remote Control Valve, 1in., 1-1/2in., 2in. size as noted.	1	
⊙	Weathermatic MAX-DW 1" Plastic Remote Control Valve, 1in., 1-1/2in., 2in. size as noted.	7	
⊙	Spears Sch 80 PVC Ball Valve (Size to match valve)	10	
⊙	Weathermatic MAX-DW MASTER VALVE 1" Plastic Remote Control Valve, 1in., 1-1/2in., 2in. size as noted.	1	
⊙	Febco 860 1" Reduced Pressure Backflow Preventer	1	
C	Rain Bird ESPLXME2 12 Station Traditionally-Wired, Commercial Controller. Indoor/Outdoor, Plastic Wall-Mount Enclosure.	1	
RS	Hunter RFC Rain and freeze sensor, with conduit installation, mount as noted. Normally closed switch.	1	
FM	Data Industrial IR220P (Match Size of Mainline) Flow Sensor	1	
M	Water Meter 1"	1	
---	Irrigation Lateral Line: PVC Class 200 SDR 21 3/4"	1,031 l.f.	
---	Irrigation Lateral Line: PVC Class 200 SDR 21 1"	35.7 l.f.	
---	Irrigation Lateral Line: PVC Class 200 SDR 21 1 1/4"	13.4 l.f.	
---	Irrigation Mainline: PVC Class 200 SDR 21 1"	197.7 l.f.	
---	Irrigation Mainline: PVC Class 200 SDR 21 1 1/4"	406.6 l.f.	
---	Pipe Sleeve: PVC Schedule 40	63.3 l.f.	



CONTRACTOR TO VERIFY LOCATION OF EXISTING WATER METER & BACKFLOW DEVICE ON SITE. MAINLINE TO BE CONNECTED TO EXISTING WATER METER & BACKFLOW DEVICE.

MATCHLINE THIS SHEET



MATCHLINE THIS SHEET

1 IRRIGATION PLAN
SCALE: 1" = 10'-0"

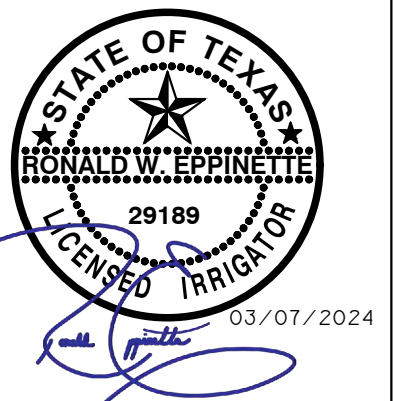


WESTLAKE
SKATE PARK
MESQUITE, TEXAS

MESQUITE
T E X A S

half
1201 NORTH BOWSER RD
DALLAS, TEXAS 75081-1275
TEL: (214) 346-6200

REVISION NO.	DATE	DESCRIPTION



PROJECT NO.: 53890.001
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SHEET TITLE

IRRIGATION PLAN

L6.00

IRRIGATION GENERAL NOTES

1. IRRIGATION CONTRACTOR IS TO BE A STATE OF TEXAS LICENSED IRRIGATOR, AND IS TO FOLLOW ALL TCEQ CODES AND REGULATIONS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING SHOP DRAWINGS AND SPECIFICATIONS FOR IRRIGATION SYSTEM DESIGN INCLUDING PIPE SIZES/LOCATIONS, EMITTERS, VALVES, CALCULATIONS AND WAER BUDGET. SHOP DRAWINGS SHALL BE REVIEWED/APPROVED BY PROJECT LANDSCAPE ARCHITECT / OWNER PRIOR TO INSTALLATION.
2. THE CONTRACTOR SHALL LOCATE AND VERIFY THE EXISTENCE OF ALL UTILITIES PRIOR TO INITIATING WORK.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR INTERRUPTION IN SERVICE CAUSED BY HIS EXCAVATIONS AND/OR WORK.
4. IRRIGATION PLAN IS DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL BE RESPONSIBLE FOR ACCOMPLISHING FULL COVERAGE IN ALL AREAS WITH SPECIFIED EQUIPMENT. ANY DISCREPANCIES IN THE PLAN SHOULD BE BROUGHT TO THE LICENSED IRRIGATOR'S ATTENTION BEFORE BID.
5. WHERE TREES, LIGHT STANDARDS, ETC. ARE AN OBSTRUCTION OF PIPING AND DRIP EMITTERS THE IRRIGATION SHALL BE ADJUSTED AND/OR RELOCATED AS NECESSARY TO OBTAIN FULL COVERAGE WITH MINIMAL OVER SPRAY INTO NON-LANDSCAPE AREAS OR ONTO HARD CONSTRUCTION.
6. ALL FITTINGS AND NECESSARY EQUIPMENT REQUIRED TO MAKE THIS IRRIGATION SYSTEM OPERATE PROPERLY AND TO COMPLY WITH LOCAL AND STATE CODES ARE INCIDENTAL TO THESE PLANS AND ARE THE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT PROPOSED IRRIGATION SYSTEM IN ACCORDANCE WITH PLANS, WRITTEN SPECIFICATIONS, AND DETAILS.
7. THIS IRRIGATION SYSTEM WAS DESIGNED FOR A MINIMUM STATIC PRESSURE AT THE POINT OF CONNECTION AS INDICATED ON THE PLANS. THE CONTRACTOR SHALL VERIFY ACTUAL PSI AND DELIVER RESULTS TO THE LICENSED IRRIGATOR PRIOR TO CONSTRUCTION. IN THE EVENT THE ACTUAL PSI IS LESS THAN WHAT IS SPECIFIED ON THE PLANS THE CONTRACTOR SHALL RECEIVE DIRECTION FROM THE LICENSED IRRIGATOR REGARDING DESIGN MODIFICATIONS IF NECESSARY.
8. CONTRACTOR WILL BE HELD LIABLE FOR GAINING ACCESS UNDER ALL PAVEMENTS. IF SLEEVES ARE INDICATED ON THE PLANS THEY SHOULD BE VERIFIED FOR ACCESSIBILITY AND PASSIBILITY BEFORE BID IS MADE, IF NOT, THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF SLEEVE PIPING WITH ALL TRADES TO INSURE THAT SLEEVES ARE INSTALLED PROPERLY PRIOR TO INSTALLATION OF CURB AND GUTTER, ASPHALT PAVING, SIDEWALKS, CONCRETE PADS, ETC.
9. THE CONTRACTOR SHALL LOCATE AND VERIFY WATER SUPPLY TO WHICH THE IRRIGATION SYSTEM WILL CONNECT. ALL EQUIPMENT AND INSTALLATION METHODS SHALL COMPLY WITH ALL LOCAL, REGIONAL, STATE, AND FEDERAL GUIDELINES.
10. CONTRACTOR IS RESPONSIBLE FOR ALL CONNECTIONS AND METERS REQUIRED FOR THE FULL IMPLEMENTATION OF THE SYSTEM.
11. THE CONTRACTOR SHALL COORDINATE WATER METER AND "TAP-IN" LOCATIONS AND CONNECTIONS WITH THE OWNER AND MUNICIPALITY PRIOR TO INSTALLATION.
12. ALL VALVES SHALL BE LOCATED IN PLANTING AREAS WHERE SHOWN AND ALL PIPING SHALL BE INSTALLED PRIOR TO LANDSCAPE PLANTING WORK.
13. NO TEES, ELLS, OR OTHER TURNS IN PIPING SHALL BE LOCATED UNDER PAVING.
14. CONTRACTOR SHALL SIZE VALVE BOXES TO HOUSE ENTIRE IRRIGATION ASSEMBLIES AS SHOWN. VALVE BOX EXTENSIONS AS MANUFACTURED BY THE VALVE BOX SUPPLIER SHALL BE INSTALLED TO MAINTAIN THE VALVE BOX COVER FLUSH WITH THE FINISHED GRADE AND THE VALVE BOX BASE A MINIMUM OF 2 INCHES BELOW THE BOTTOM OF ANY IRRIGATION ASSEMBLY.
15. PIPE SIZES SHOWN AT POINTS OF CONNECTION AND WHERE CHANGES IN PIPE SIZE OCCUR. ALL PIPES SHALL BE THE SIZE OF THE LAST PRECEDING SIZE CALLED OUT UPSTREAM OF EACH SECTION OF PIPE UNLESS OTHERWISE NOTED. LATERAL LINES WITH FLOW OF 10 GPM OR LESS SHALL BE SIZE 3/4".
16. EACH CONTROLLER WILL HAVE AN INDEPENDENT COMMON WIRE.
17. SPLICING OF REMOTE CONTROL VALVE WIRES IS NOT ALLOWED BETWEEN CONTROLLER AND VALVE BOX. WIRES MUST BE CONTINUOUS FROM CONTROLLER TO REMOTE CONTROL VALVE WITHOUT SPLICING.
18. CONTRACTOR TO THOROUGHLY FLUSH ALL LINES UNTIL WATER RUNS CLEAR PRIOR TO INSTALLING HEADS AND EMITTERS.
19. ON DRIP IRRIGATION SYSTEMS, ALL WATER LINES SHALL BE THOROUGHLY FLUSHED UNTIL WATER RUNS CLEAR BEFORE INSTALLING DRIPLINE.
20. ALL TRENCH BACKFILL SHALL BE CLEAN MATERIAL FROM EXCAVATION BACKFILL. TRENCH IS TO BE EVEN WITH EXISTING GRADES AFTER COMPACTION.
21. TRENCH BACKFILL MATERIAL SHALL BE WATER SETTLED AND COMPACTED.
22. ALL REMOTE CONTROL VALVE WIRES NEED TO BE LABELED AT THE VALVE W/ WEATHER (WATER) PROOF LABELS AND AT CONTROLLER WITH CORRESPONDING LABEL.
23. CONTRACTOR SHALL PLACE ALL SPRAY AND ROTARY HEADS AT LEAST 4" INSIDE FROM WALLS, AND 2" INSIDE FROM ANY CURBING, SIDEWALK, FENCING, EDGING, OR PER CITY CODE.
24. ALL SLEEVES SHALL HAVE AN EXTRA SLEEVE OF EQUAL SIZE ADDED FOR POTENTIAL FUTURE EXPANSION AND ADDITION.
25. ADJUSTABLE FLOW CONTROLS SHALL BE REQUIRED ON CIRCUIT REMOTE CONTROL VALVES. A PRESSURE REGULATION COMPONENT(S) SHALL BE REQUIRED WHERE STATIC PRESSURE EXCEEDS MANUFACTURER'S RECOMMENDED OPERATING RANGE.
26. HEADS SHALL HAVE MATCHED PRECIPITATION RATES WITHIN THE CONTROL VALVE CIRCUIT, EITHER BY DESIGN OR MANUFACTURER'S PRODUCT.
27. SERVICEABLE CHECK VALVES SHALL BE REQUIRED WHERE ELEVATION DIFFERENTIAL MAY CAUSE LOW HEAD DRAINAGE ADJACENT TO PAVING AREAS.
28. ALL AUTOMATIC IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH A CONTROLLER CAPABLE OF DUAL OR MULTIPLE PROGRAMMING. CONTROLLERS SHALL HAVE MULTIPLE CYCLE START CAPACITY AND A FLEXIBLE CALENDAR PROGRAM, INCLUDING THE CAPABILITY OF BEING SET TO WATER EVERY FIVE DAYS. ALL AUTOMATIC IRRIGATION SYSTEMS SHALL BE EQUIPPED WITH A RAIN AND FREEZE SENSOR SHUTOFF DEVICE LOCATED WHERE RAINFALL IS UNOBSTRUCTED AND ADJUSTED TO ONE-FOURTH INCH SETTING. CONTRACTOR TO COORDINATE AND PROVIDE ELECTRIC SERVICE FOR AUTOMATIC CONTROLLER(S). THE CONTRACTOR SHALL USE PROPER GROUNDING TECHNIQUES FOR GROUNDING.
29. PROVIDE LAMINATED COPY OF THE RECOMMENDED SETTINGS AND A SCHEDULE TO INCLUDE:
 - a) ESTIMATED MONTHLY WATER USE (IN GALLONS PER APPLICATION).
 - b) PRECIPITATION RATE FOR THE VALVE CIRCUIT.
 - c) MONTHLY IRRIGATION SCHEDULE FOR THE PLANT ESTABLISHMENT PERIOD (FIRST THREE MONTHS) AND RECOMMENDED YEARLY WATERING SCHEDULE, INCLUDING SEASONAL ADJUSTMENTS.
30. IRRIGATION CONTRACTOR TO PROVIDE SLEEVES AS SHOWN TO COMPLETE THIS PROJECT. COORDINATE AND MARK ALL SLEEVE ENDS WITH SAW-CUT IN FIELD WITH THE GENERAL CONTRACTOR.
31. 2'-0" MIN. OFFSET OF MAINLINE FROM BACK OF CURB TYP.
32. IRRIGATION CONTRACTOR SHALL FOLLOW ALL TCEQ CODES AND REGULATIONS.
33. ALL BACKFLOW PREVENTION ASSEMBLIES/DEVICES SHALL BE TESTED PER CODES.
34. ALL CONTROLLER AND ACCESSORY LOCATIONS TO BE COORDINATED AND VERIFIED WITH OWNER AND LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
35. ALL LOCAL MUNICIPAL AND STATE LAWS, RULES AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS AND THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR.
36. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED TO PERFORM THE WORK INDICATED HEREIN BEFORE BEGINNING WORK.
37. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES, STRUCTURES AND SERVICES SHOWN IN THESE PLANS ARE APPROXIMATE ONLY. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE.
38. THE CONTRACTOR SHALL NOT WILLFULLY INSTALL ANY EQUIPMENT AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN CONDITIONS EXIST THAT WERE NOT EVIDENT AT THE TIME THESE PLANS WERE PREPARED. ANY SUCH CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE PRIOR TO ANY WORK OR THE IRRIGATION CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY FIELD CHANGES DEEMED NECESSARY BY THE

OWNER.

39. THE CONTRACTOR SHALL OBTAIN THE PERTINENT ENGINEERING SITE DEVELOPMENT AND/OR ARCHITECTURAL PLANS BEFORE BEGINNING WORK.
40. ALL IRRIGATION SYSTEM COMPONENTS SHOULD BE DESIGNED AND INSTALLED FOR NON-POTABLE WATER APPLICATION. CONTRACTOR SHALL INSTALL IRRIGATION SYSTEM IN COMPLIANCE WITH ALL CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) STANDARDS AND REGULATIONS FOR NON-POTABLE WATER USE.
41. INSTALL ALL EQUIPMENT AS SHOWN IN THE DETAILS AND SPECIFICATIONS OR PER MANUFACTURER STANDARD SPECIFICATIONS. CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH LOCAL CITY, COUNTY AND STATE REQUIREMENTS FOR BOTH EQUIPMENT AND INSTALLATION.
42. CONTRACTOR TO BANK VALVES/BOXES, IN NEAT AND ORDERLY MANNER INSIDE LANDSCAPE PLANTING AREAS. FOR TURF, COORDINATE PREFERRED LOCATION WITH OWNER PRIOR TO DESIGN AND/OR INSTALLATION. NO VALVES/BOXES SHALL BE PERMITTED WITHIN PLAYING FIELDS.
43. SPRINKLER HEAD SPACING SHALL BE DESIGNED AND PROVIDE FOR "HEAD-TO-HEAD" COVERAGE AND ADJUSTED FOR PREVAILING WINDS. THE SYSTEM SHALL PROMOTE MINIMAL RUN-OFF AND MINIMAL OVER SPRAY ONTO NON-IRRIGATED AREAS (I.E. PAVING, WALKWAYS, BUILDING). TURF, LANDSCAPE BEDS AND TREES SHALL BE ZONED SEPARATELY. ALL HEADS ARE TO BE INSTALLED WITH THE NOZZLE, SCREEN AND ARCS SHOWN ON PLANS OR DETERMINED IN THE FIELD FOR HEAD-TO-HEAD COVERAGE. HEADS MUST HAVE MATCHED PRECIPITATION RATES WITHIN EACH CONTROL VALVE CIRCUIT.
44. ALL IRRIGATION LINES AND SLEEVES SHALL BE AT A DEPTH OF 18"-24". DO NOT ROUTE PIPE DOWN THE CENTER OF THE TREE AND SHRUB BED AREAS; ALLOW FOR TREE AND SHRUB BED PLANTINGS. AVOID ANY CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING, UTILITIES, AND ARCHITECTURAL FEATURES.
45. ALL PIPE UNDER PAVED AREAS TO BE INSTALLED IN SLEEVEING PER PLAN CALLOUTS.. ALL WIRE UNDER PAVED AREAS TO BE INSTALLED IN A SCH. 40 SLEEVE THE SIZE REQUIRED TO EASILY PULL WIRE THROUGH. ALL SLEEVES TO BE INSTALLED WITH A MIN. DEPTH AS SHOWN ON THE SLEEVEING DETAILS.
46. CONTRACTOR SHALL EXERCISE EXTREME CARE WHEN EXCAVATING NEAR TREES. NO MECHANICAL TRENCHING SHALL BE PERMITTED BELOW THE DRIPLINE/CANOPY OF EXISTING TREES. CONTRACTOR SHALL ADJUST TRENCH PATH AND/OR EXCAVATE BY HAND TO AVOID DAMAGE TO EXISTING TREE ROOT SYSTEMS.
47. ALL MAINLINE AND LATERAL TRENCHES SHALL REMAIN OPEN UNTIL INSPECTED AND APPROVED BY OWNER AND/OR LANDSCAPE ARCHITECT AND MUNICIPALITY.
48. COMPACTION OF THE PIPE TRENCHES SHALL BE SUFFICIENT TO LIMIT SHORT TERM SETTLING OF THE BACKFILL TO NO MORE THAN 1-INCH. THE CONTRACTOR SHALL CORRECT SETTLING GREATER THAN THIS WITHOUT ADDITIONAL COMPENSATION.
49. CONTRACTOR IS RESPONSIBLE FOR PROVIDING AS-BUILT DRAWINGS AND SPECIFICATIONS FOR IRRIGATION SYSTEM PRIOR TO PROJECT CLOSE-OUT.
50. ANY EXISTING IRRIGATION THAT CONFLICTS WITH PROPOSED DESIGN IS TO BE ADJUSTED AND REPLACED TO PROVIDE COMPLETE COVERAGE OF EXISTING IRRIGATED AREAS. ALL AREAS IN QUESTION ARE TO BE COORDINATED WITH OWNER AND LICENSED IRRIGATOR PRIOR TO CONSTRUCTION.
51. **WARRANTY : CONTRACTOR SHALL PROVIDE A ONE-YEAR REPLACEMENT WARRANTY FOR ALL IRRIGATION MATERIALS INCLUDING INSTALLATION. WARRANTY SHALL NOT COVER DAMAGE RESULTING FROM IMPROPER OPERATION OR MAINTENANCE PRACTICES BY OWNER.**
52. **IRRIGATION SPECIFICATIONS : WHEN WRITTEN TECHNICAL SPECIFICATION ARE PROVIDED AND CONFLICT WITH THESE PLANS, THE SPECIFICATIONS SHALL PREVAIL FOR THIS PROJECT.**

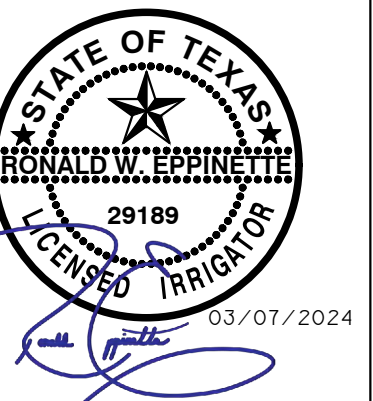
DRIP IRRIGATION NOTES

1. LATERAL LINES TO BE OFFSET 18" MIN. FROM HARDSCAPE / PAVED AREAS.
2. SPACING BETWEEN LATERAL LINES TO BE 12" MAX.
3. EMITTERS TO BE SPACED 24", TYP. (MIN. 18", MAX. 30") TO INSURE OPTIMAL WETTING OF THE ROOT ZONE.
4. ALL CONNECTIONS BETWEEN DRIP TUBING SHALL BE MADE USING MD CF FITTINGS.
5. PROVIDE EASY FIT COMPRESSION FLUSH CAPS AS REQUIRED.
6. REFER TO IRRIGATION NOTES FOR ADDITIONAL REQUIREMENTS.
7. ALL DRIP ZONES TO HAVE DRIPLINE FLUSH POINT AND AIR RELIEF VALVE. (REF. DETAILS FOR ADDITIONAL INFORMATION)

WESTLAKE
SKATE PARK
MESQUITE, TEXAS



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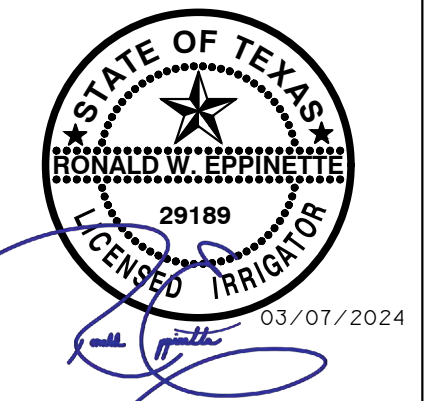


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IRRIGATION
NOTES

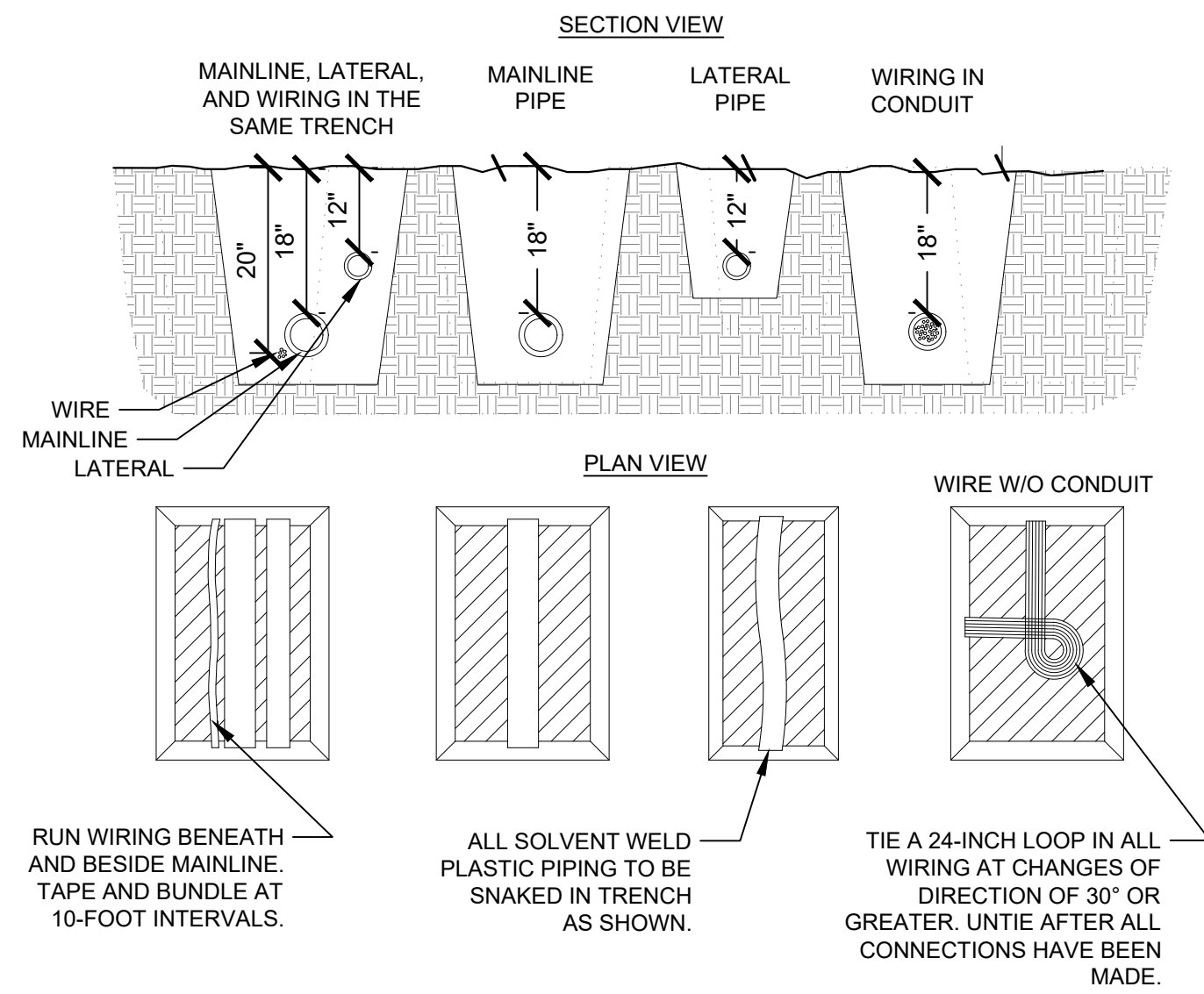
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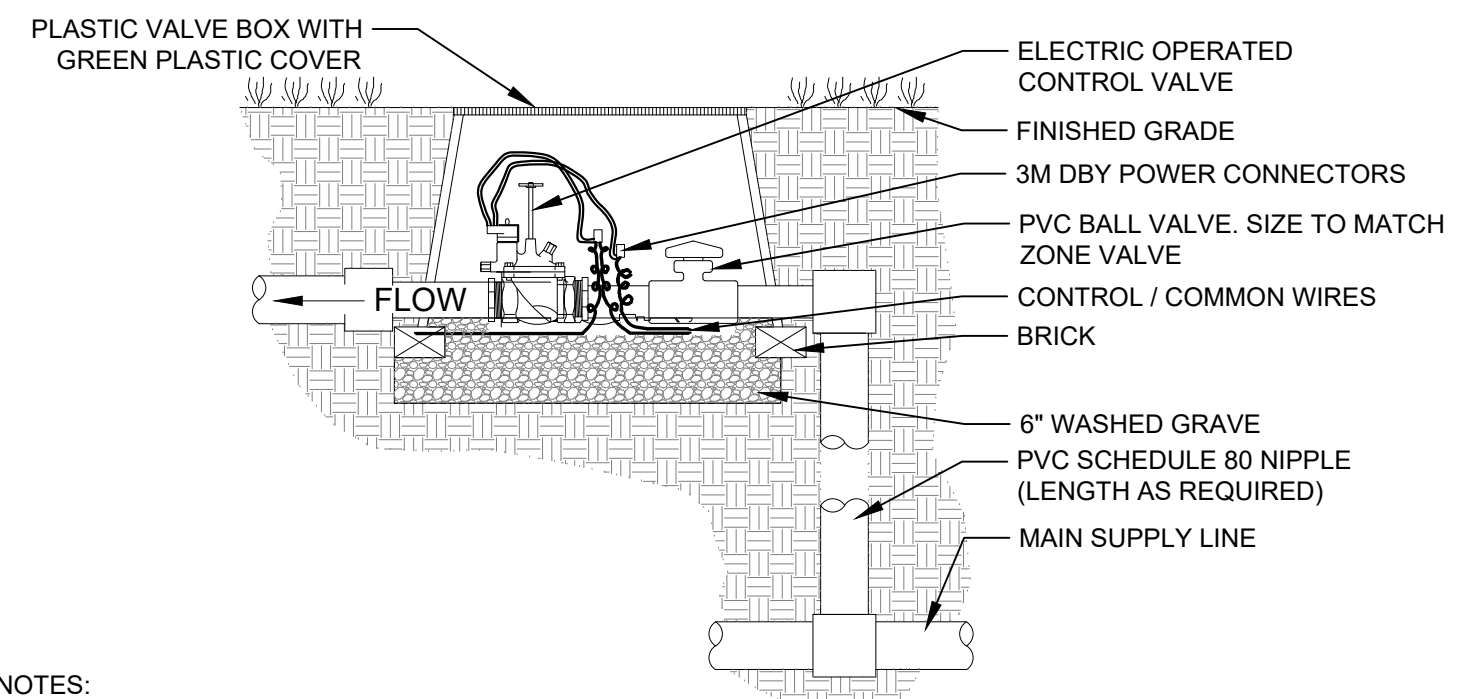
IRRIGATION
DETAILS



NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCH.40 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN.

1 TRENCHING DETAIL

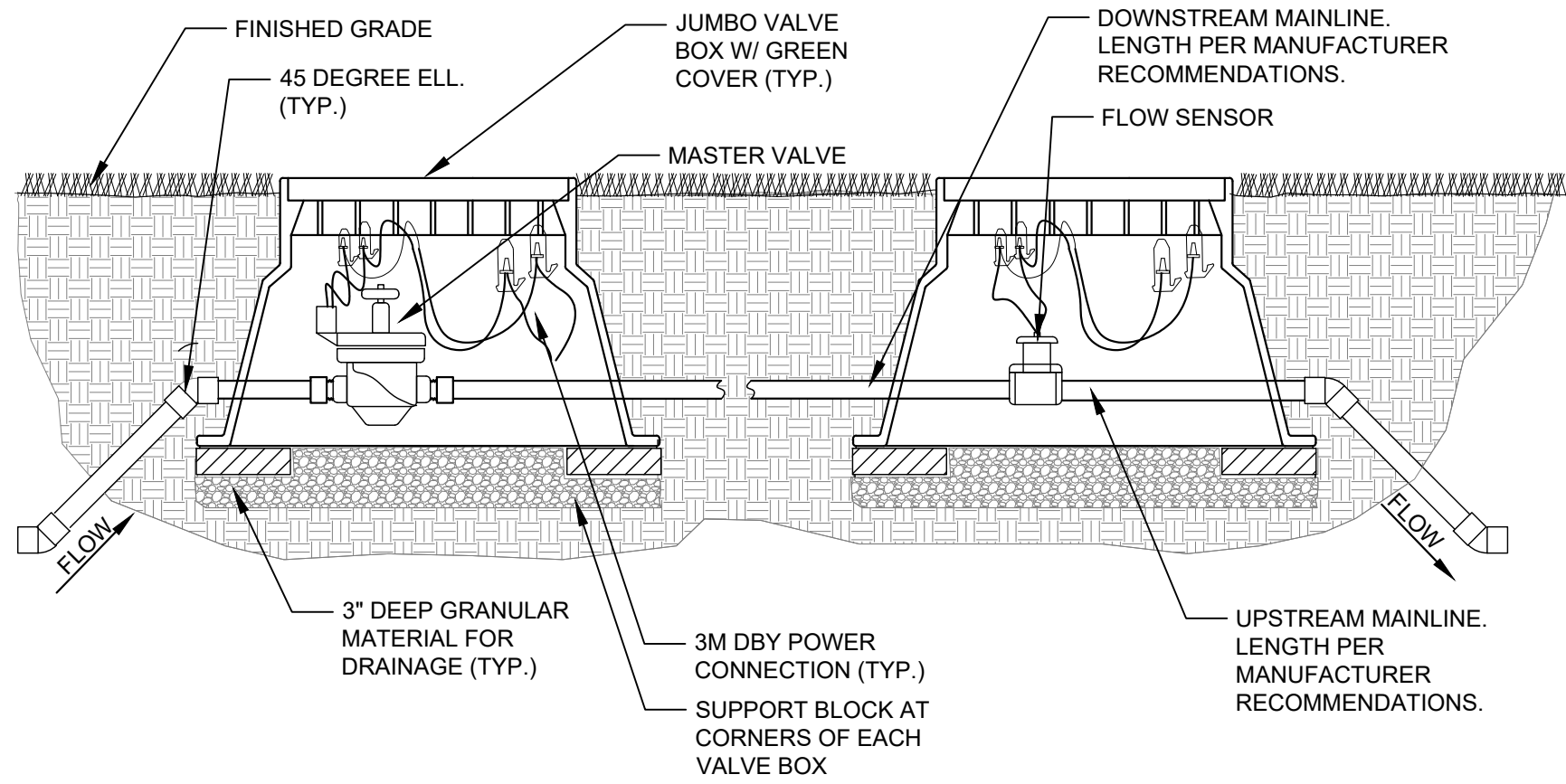
NTS



NOTES:
1. ALL WIRE TO BE INSTALLED PER LOCAL CODE.
2. TAPE AND BUNDLE WIRE EVERY TEN FEET.
3. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX. (WRAP AROUND 1/2" PIPE 15 TIMES.)
4. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. INSTALL VALVES IN CLOSE PROXIMITY TO ADJACENT WALKS WHERE POSSIBLE.
6. ORIENT RECTANGULAR VALVE BOXES PARALLEL TO ADJACENT WALKS, CURBS, ETC.
7. INSTALLATION OF BALL VALES WILL BE SIMILAR TO INSTALLATION FOR CONTROL VALVES.

2 CONTROL VALVE DETAIL

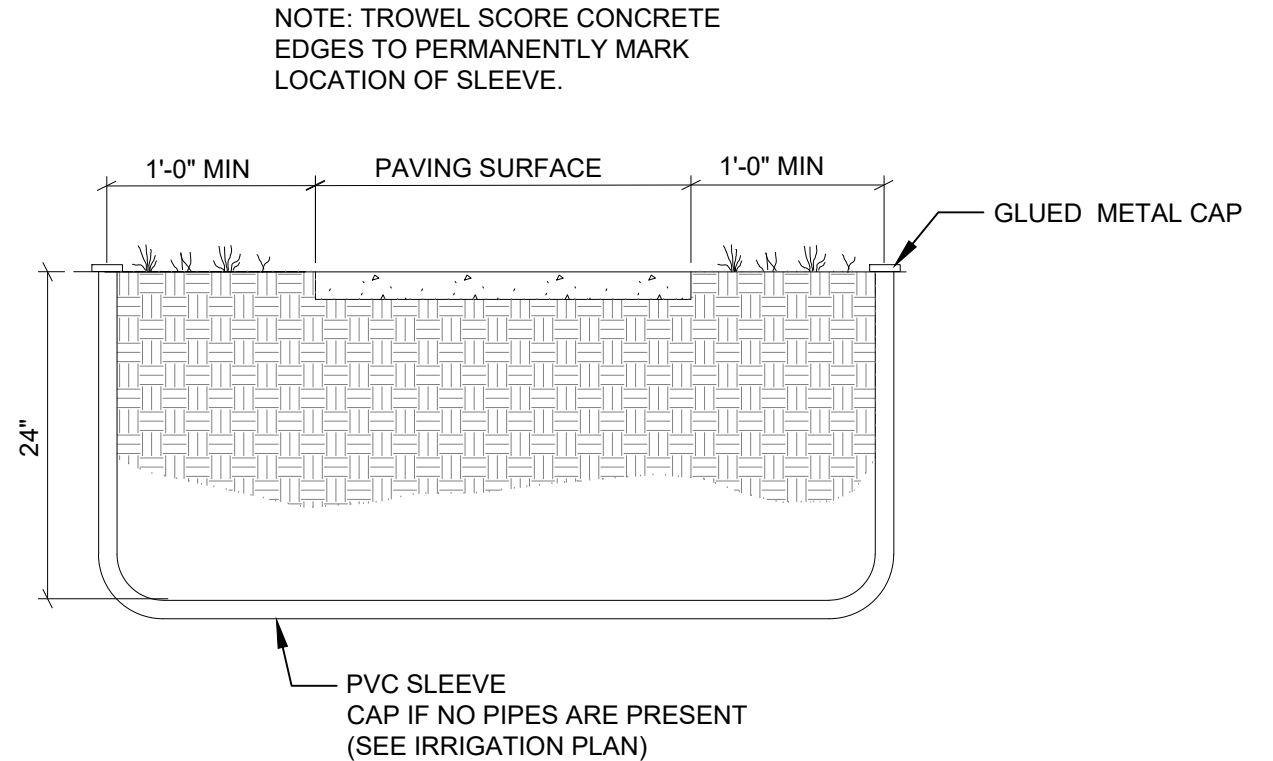
NTS



NOTES:
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4. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS UNDISTURBED ADJACENT SOIL.
5. INSTALL VALVES IN CLOSE PROXIMITY TO ADJACENT WALKS WHERE POSSIBLE.
6. ORIENT RECTANGULAR VALVE BOXES PARALLEL TO ADJACENT WALKS, CURBS, ETC.

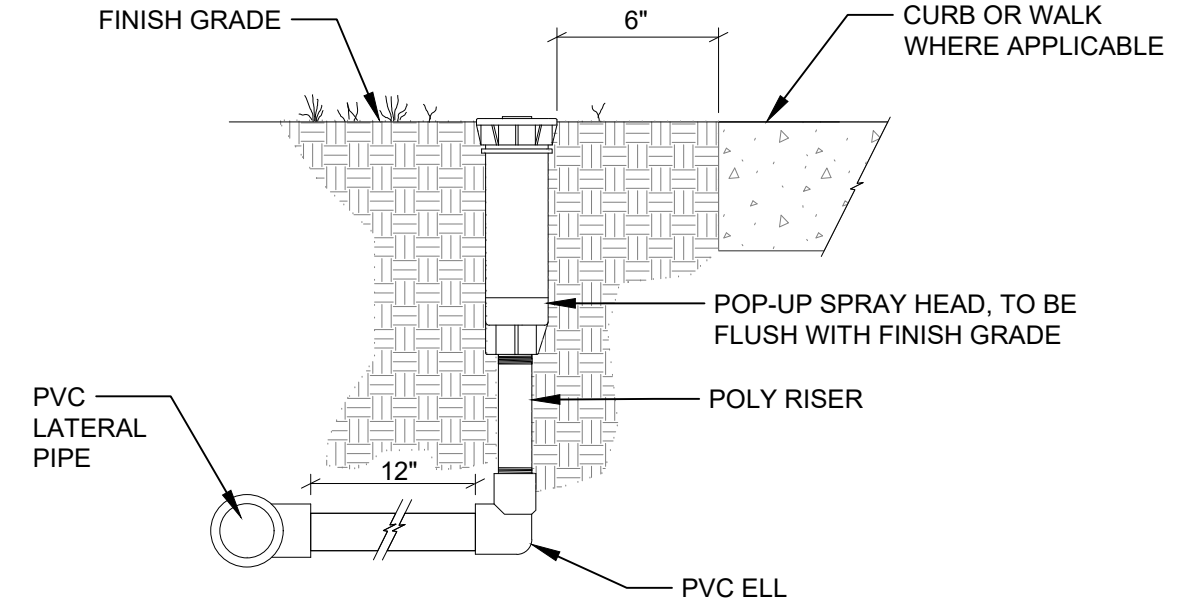
3 MASTER VALVE AND FLOW METER DETAIL

NTS



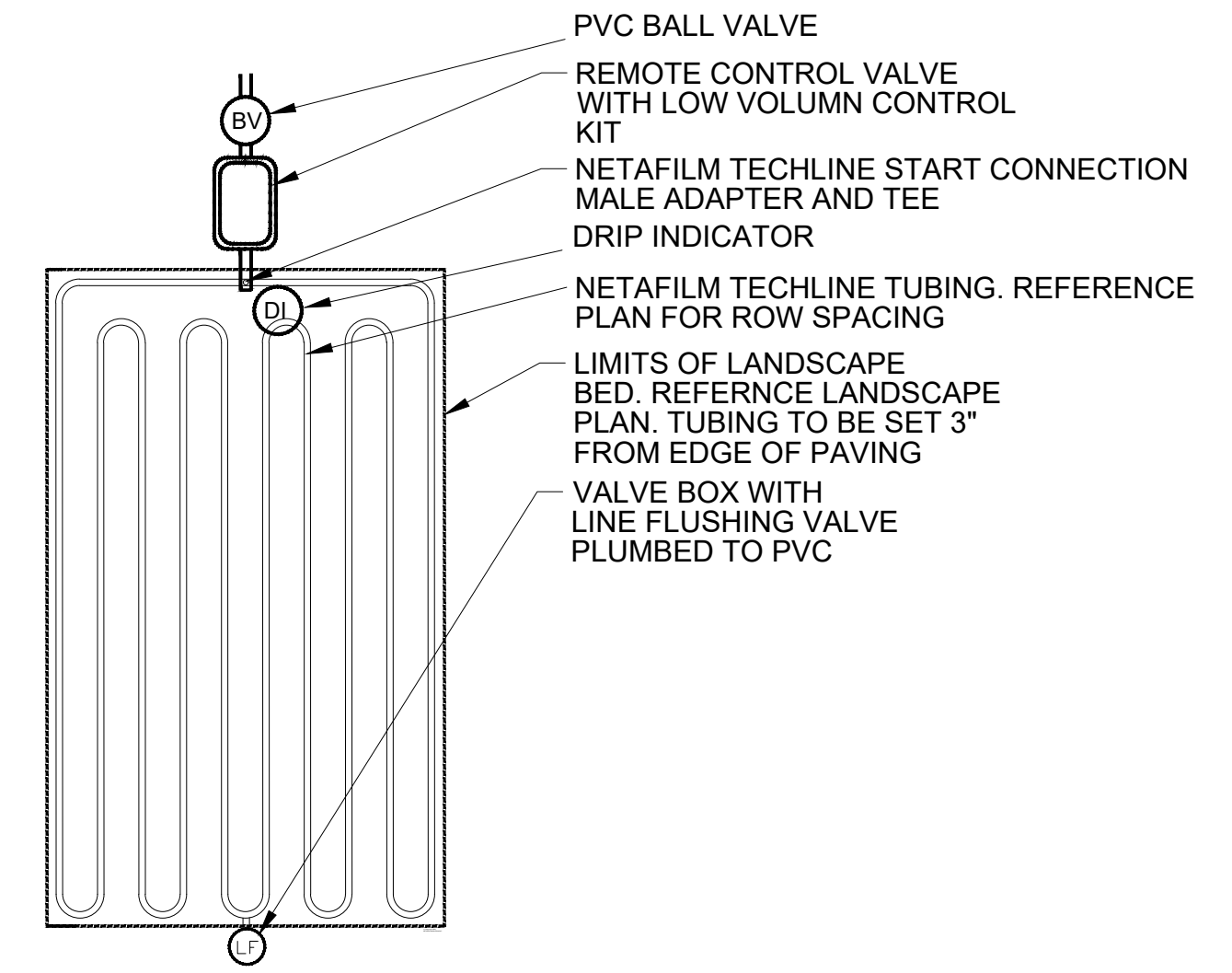
4 IRRIGATION SLEEVE DETAIL

NTS



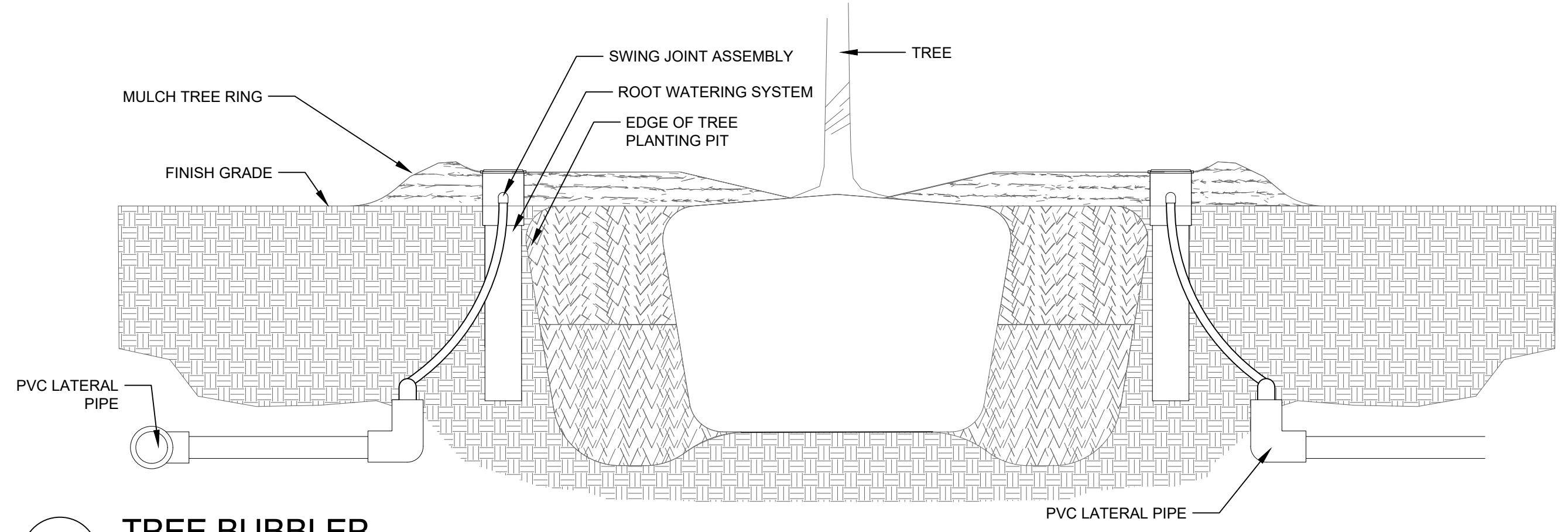
5 POP UP SPRAY HEAD

NTS



7 DRIP IRRIGATION- LANDSCAPE BED

NTS



6 TREE BUBBLER

NTS

FILE NAME: \\half\ap\ZNA\VO\53890\05\53890\01\LA\CADD\Sheets\L7.00- IRRIGATION.dwg DATE: March 7, 2024, TIME: 9:47 AM, USER: ah5246 AVO: 53890.001