CONCRETE PAVING (STANDARD) NATURAL GRAY MEDIUM BROOM FINISH 3000 PSI

CONTROL JOINTS: SAWCUT (1/4 DEPTH OF CONCRETE) @ REGULAR INTERVALS (TYPICAL JOINT SPACING TO BE EQUAL TO WIDTH OF WALK) EXPANSION JOINTS: SEE PLANS FOR LOCATION, 30' MAX. JOINT SEALANT: COLOR TO MATCH CONCRETE

CONCRETE PAVING (PAVILION SLAB PARKING LOT CURB AND GUTTER)

COLOR: NATURAL GRAY LIGHT BROOM FINISH 4000 PSI FINISH: CONTROL JOINTS: SAWCUT (1/4 DEPTH OF CONCRETE) @ REGULAR INTERVALS (SEE PLANS FOR LOCATION) EXPANSION JOINTS: SEE PLANS FOR LOCATION, 30' MAX.

JOINT SEALANT: COLOR TO MATCH CONCRETE APPROVAL: SEE SPECIFICATIONS

CONCRETE PAVING (AT BOAT RAMP) NATURAL GRAY ROUGH RAKED TEXTURE - 4" GROOVE SPACING, 1.5" DEEP CONTROL JOINTS: 2" DEEP SAW CUT BELOW DEEPEST GROOVE EXPANSION JOINTS: SEE PLANS FOR LOCATION, 30' MAX. JOINT SEALANT: COLOR TO MATCH CONCRETE

APPROVAL: SEE SPECIFICATIONS ASPHALT PAVING (AT PARKING LOT) TYPE D, DENSE GRADED HOT MIX REF. PLAN AND DETAILS FOR DEPTH

CRUSHED AGGREGATE (CONNECTING PARKING LOT TRAIL TO EXISTING ASPHALT ROAD) CLASS 1 AGGREGATE ROAD SURFACE REF. DETAILS

DAVE HASNESS (713.467.6436)

CUT SHEET, SAMPLE, MOCKUP

PROVIDE SAMPLES, PRODUCT DATA AND MOCK

UPS IN ACCORDANCE WITH SPECIFICATIONS

SEE SPECIFICATIONS

ADA PAVER (AT ADA RAMP) ( P-6 CONCRETE PAVER MANUFACTURER: TRUNCATED DOME PAVERS STYLE: COLOR: TO BE SELECTED BY CITY SIZE: PATERN: INSTALL: 4" CONCRETE SUBBASE, REF. DETAILS SUPPLIER: KEYSTONE

APPROVAL: SEE SPECIFICATIONS

## **METALS**

METAL LANDSCAPE EDGING

APPROVAL:

CONTACT:

APPROVAL:

STEEL BLACK SEMI GLOSS SIZE: 3/8" - 6" DEEP AT AGGREGATE INSTALL: REF. PLANS AND DETAILS

MATERIAL LEGEND CONTINUED:

## SITE AMENITIES

PICNIC TABLE EXTRA HEAVY-DUTY 8' ADA ACCESSIBLE TABLE, DOUBLE-END ACCESS MODEL: 238H-V8 ULTRASITE OR APPROVED EQUAL FINISH: THERMOPLASTIC TOP WITH POWDER COATED FRAME PATTERN: PER MANUFACTURER'S SPECIFICATIONS SURFACE MOUNT INSTALL: SUPPLIER: PLAYWELL GROUP CONTACT: KERRY WALSH PH: 832-655-5400 E: KERRY@PLAYWELLGROUP.COM **CUT SHEET AND COLORS** APPROVAL: NOTE: INSTALL TO MEET OR EXCEED ADA AND TAS REQUIREMENTS

VEHICULAR MAINTENANCE GATE

DURAGATE 16' SQUARE TUBULAR STEEL GATE OR APPROVED EQUAL DGT-BS SUPER DUTY STEEL BARRIER GATE FINISH: HOT DIPPED GALVANIZED STEEL PER MANUFACTURER'S SPECIFICATIONS INSTALL: NOTES: CUTTING WELDING OR DRILLING AND BOLTING REQUIRED APPROVAL: **CUT SHEET** 

BOLLARDS ( A-3 ) BOLLARD 400 OR APPROVED EQUAL SIZE: FINISH: STEEL WITH POWDER COAT FINISH INSTALL: PER MANUFACTURER'S SPECIFICATIONS PAUL E. ALLEN

CONTACT: ERIC D. HILLER APPROVAL: **CUT SHEET AND COLORS** NOTE: FIELD VERIFY LOCATION WITH OWNER'S REPRESENTATIVE

TRASH RECEPTACLES ( A-4

IN-GROUND MOUNTED TRASH RECEPTACLE CN-R/RN-32 ROUND TRASH RECEPTACLE W/ PLASTIC DOME LID, LINER & CHAIN KIT THERMOPLASTIC COATED PERFORATED STEEL W/ SRA LOGO PER MANUFACTURER'S SPECIFICATIONS SURFACE MOUNT INSTALL: SUPPLIER: BJ'S PARKS AND RECREATION PRODUCTS CONTACT: KEVIN HANES PH: 281-356-2110 E: KEVIN@BJSPARK.COM APPROVAL: CUT SHEET AND COLORS

INSTALL TO MEET OR EXCEED ADA AND TAS REQUIREMENTS **GUARD RAIL** 

> 42" MIN. HEIGHT FROM FINISHED FLOOR HOT DIPPED GALVANIZED ALL WELDS GROUND SMOOTH POWDER SURFACE MOUNT WITH STAINLESS STEEL HARDWARE INSTALL: SHOP DRAWINGS CONTRACTOR TO PROVIDE STRUCTURAL ENG. APPROVAL: DRAWING FOR RAILING SYSTEM

STEEL CONTINUOUS WITH STAINLESS STEEL CABLES INFILL

SHOP DRAWINGS CONTRACTOR TO PROVIDE STRUCTURAL ENG.

HANDRAIL A-6 ) STEEL CONTINUOUS WITH STAINLESS STEEL CABLE INFILL 36" TYP. TO TOP OF HANDRAIL; HOT DIPPED GALVANIZED POWDER COATED BLACK INSTALL: TOP OF HANDRAIL TO BE SMOOTH AND CONTINUOUS MEET OR EXCEED ALL ADA REGULATIONS FOR HANDRAILS

FOR HANDRAIL SYSTEM

# AGGREGATE

A-5 )

DECOMPOSED GRANITE ( AG-1

75% #2 (APPROX. 1/4" SIZE), 25% FINES REF. PLANS AND DETAILS- INSTALL IN 2" COMPACTED LIFTS SOILTAC LIQUID STABILIZER, INSTALL PER MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS APPROVAL:

# **MISCELLANEOUS**

RESTROOM ( M-1 )

CXT OR APPROVED EQUAL 26' X 20' SIZE: PER MANUFACTURER'S SPECIFICATIONS INSTALL: SUPPLIER: LBFORESTER COLORS: TO BE APPROVED BY OWNER CONTACT BOB VEALS PH: 254.404.5147 E: RVEALS@LBFORESTER.COM NOTES: APPROVAL: SHOP DRAWINGS

OVERLOOK PAVILION ( M-2

HEAVY WOOD TIMBER AND STRUCTURAL STEEL PAVILION WITH STANDING SEAM METAL ROOF SIZE: OCTAGON 64' WIDE AND LONG STRUCTURAL WOOD COMPONENTS OR APPROVED EQUAL SUPPLIER: NOTES: CONTACT RANDY BLANCHARD PH: 281.259.0668

ALL WOOD MEMBERS TO RECEIVE 2 COATS WOOD DEFENDER SEMI SOLID LATEX WOOD STAIN APPLIED PER MANUFACTURER'S SPECIFICATIONS SHOP DRAWINGS FINAL COLORS AND STAINS APPROVAL:

E:RBLANCHARD@STRUCTURALWOODCOMPONENTS.COM

SHADE STRUCTURE ( M-3

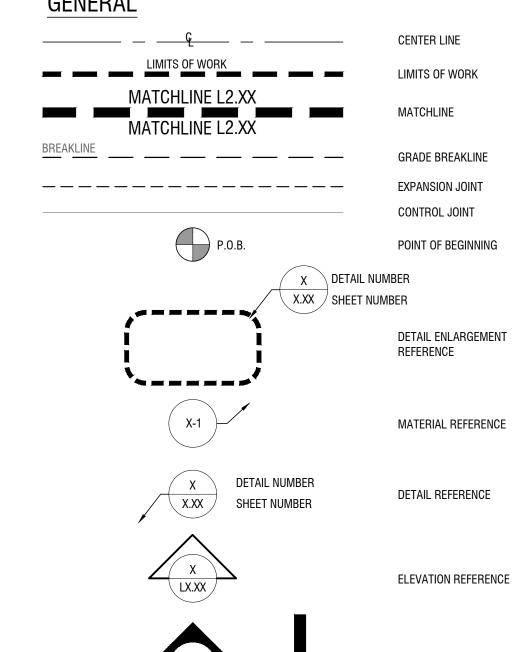
WOOD TIMBER SHADE STRUCTURE WITH R PANEL METAL ROOFING SIZE: RECTANGULAR 12 WIDE AND 20 LONG SUPPLIER: STRUCTURAL WOOD COMPONENTS OR APPROVED EQUAL CONTACT RANDY BLANCHARD PH: 281.259.0668

E:RBLANCHARD@STRUCTURALWOODCOMPONENTS.COM ALL WOOD MEMBERS TO RECEIVE 2 COATS WOOD DEFENDER SEMI SOLID LATEX WOOD STAIN APPLIED PER MANUFACTURER'S SPECIFICATIONS

SHOP DRAWINGS, FINAL COLORS AND STAINS APPROVAL:

# SYMBOLS LEGEND:

**GENERAL** 

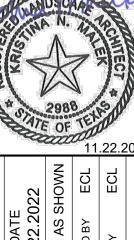


SECTION REFERENCE

# **ABBREVIATIONS**

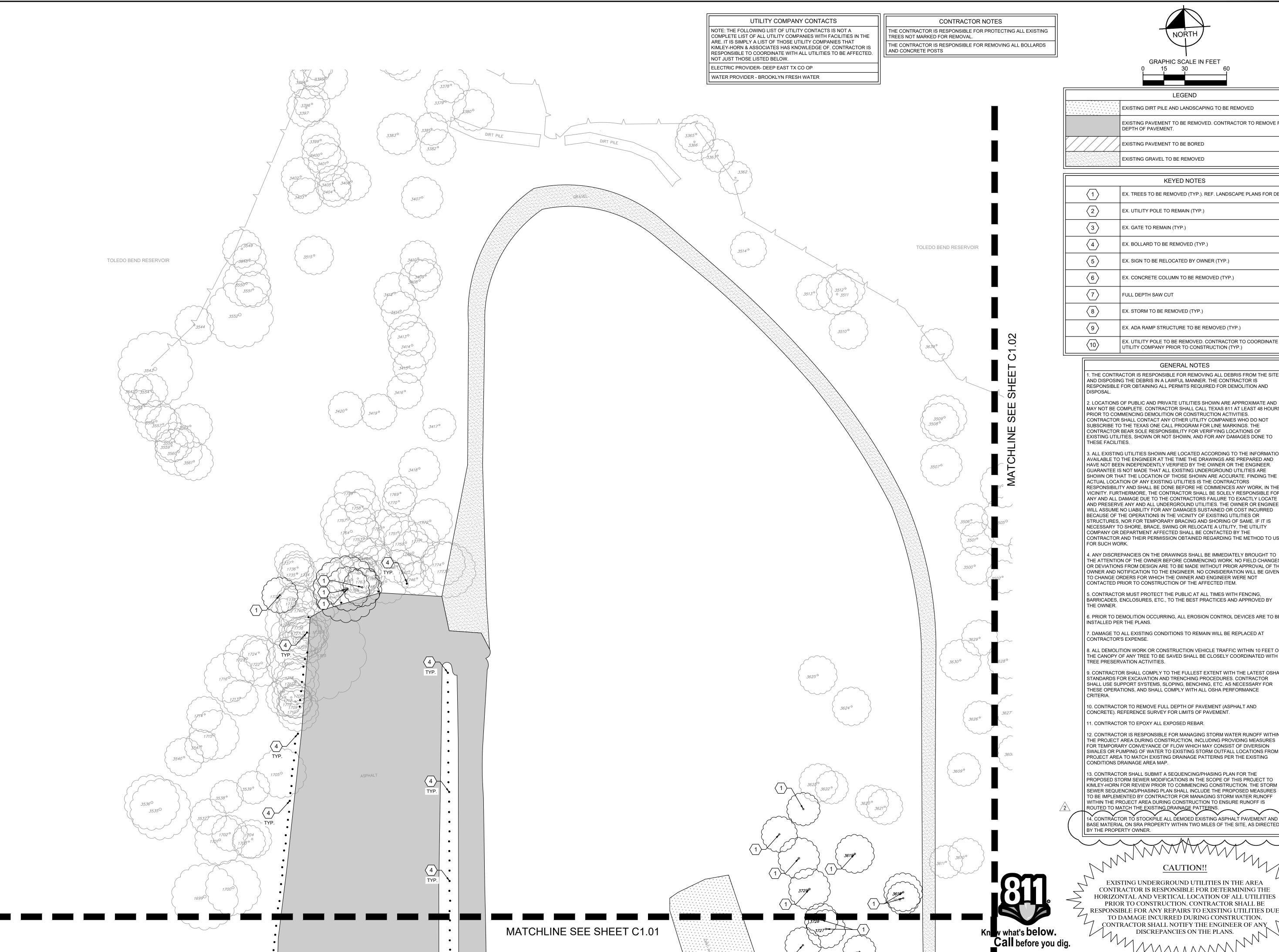
DITEVIATIONS	
735.46	PROPOSED SPOT GRADE
ME	EXISTING SPOT GRADE
TW	TOP OF WALL
BW	BOTTOM OF WALL
EW	END OF WALL
TF	TOP OF FOOTING
COL	TOP OF COLUMN
TS	TOP STEP
BS	BOTTOM STEP
TR	TOP OF RAMP
BR	BOTTOM OF RAMP
TC	TOP OF CURB
BC	BOTTOM OF CURB
ТВ	TOP OF BAND
TP	TOP OF PAVEMENT
TGr	TOP OF GRAVEL
TG	TOP OF GRADE
FL	FLOWLINE/INVERT ELEVATION
EJ	EXPANSION JOINT
CJ	CONTROL JOINT
CL	CENTER LINE
POB	POINT OF BEGINNING

FINISH GRADE



S MATE

SHEET NUMBER G0.03





LEGEND		
	EXISTING DIRT PILE AND LANDSCAPING TO BE REMOVED	
	EXISTING PAVEMENT TO BE REMOVED. CONTRACTOR TO REMOVE FULL DEPTH OF PAVEMENT.	
	EXISTING PAVEMENT TO BE BORED	
	I	

KEYED NOTES		
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2	EX. UTILITY POLE TO REMAIN (TYP.)	
3	EX. GATE TO REMAIN (TYP.)	
4	EX. BOLLARD TO BE REMOVED (TYP.)	
5	EX. SIGN TO BE RELOCATED BY OWNER (TYP.)	
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9	EX. ADA RAMP STRUCTURE TO BE REMOVED (TYP.)	
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### GENERAL NOTES

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3. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS ARE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK, IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES, NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE

THE ATTENTION OF THE OWNER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.

5. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., TO THE BEST PRACTICES AND APPROVED BY

6. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE

7. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT

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CONCRETE). REFERENCE SURVEY FOR LIMITS OF PAVEMENT.

11. CONTRACTOR TO EPOXY ALL EXPOSED REBAR.

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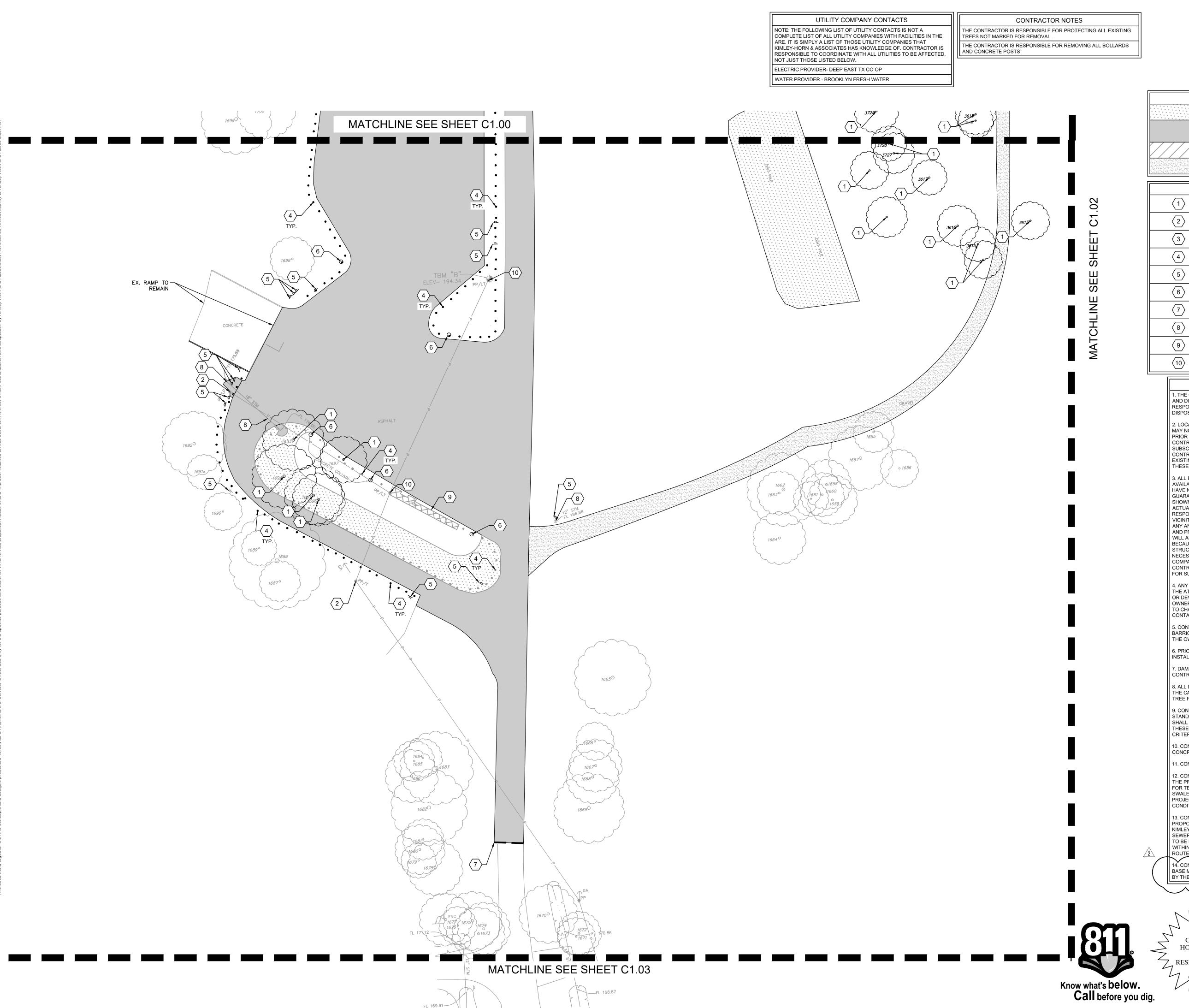
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SHEET NUMBER C1.00

MILES HENNINGTON





LEGEND
EXISTING DIRT PILE AND LANDSCAPING TO BE REMOVED
EXISTING PAVEMENT TO BE REMOVED. CONTRACTOR TO REMOVE FU DEPTH OF PAVEMENT.
EXISTING PAVEMENT TO BE BORED
EXISTING GRAVEL TO BE REMOVED

KEYED NOTES		
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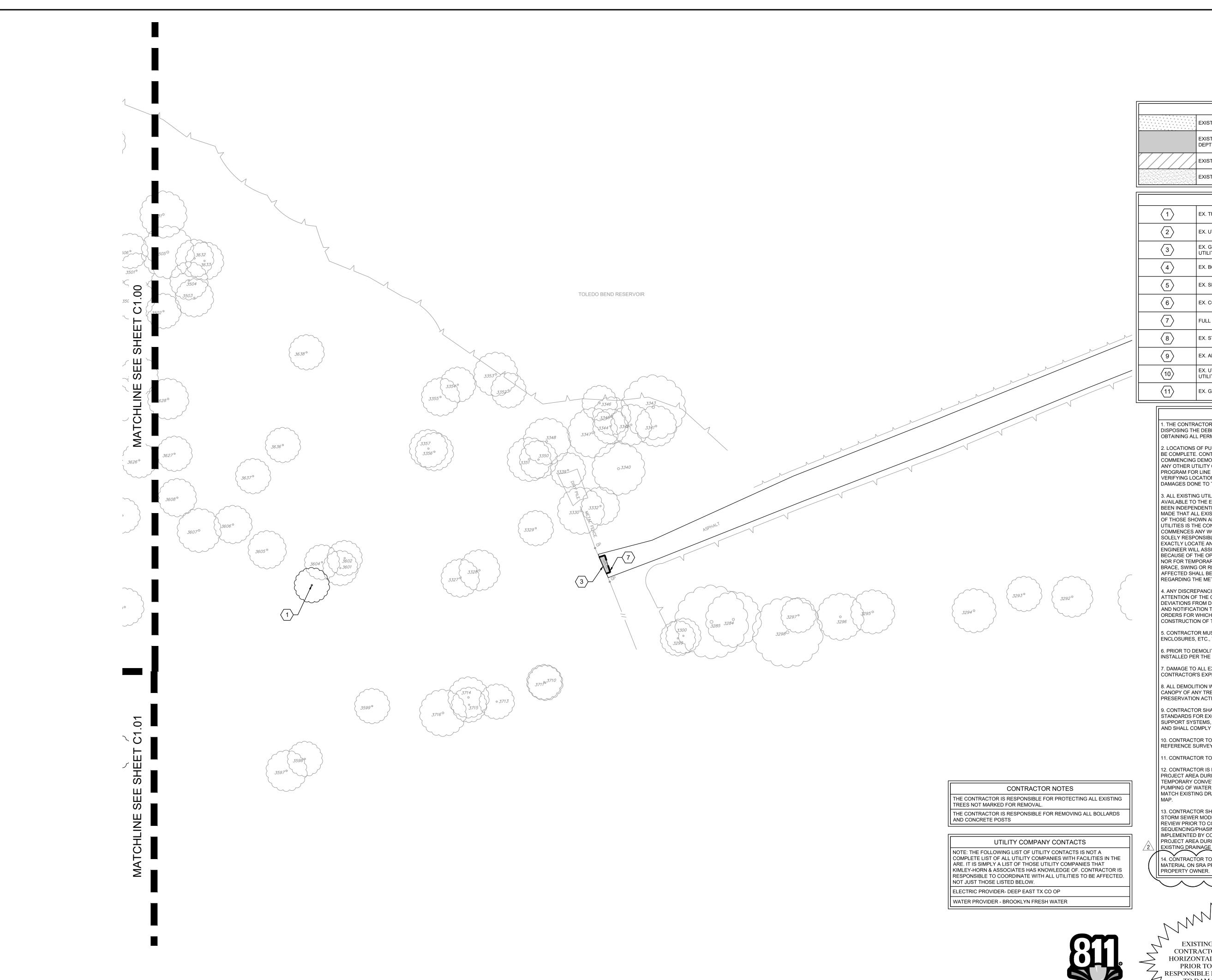
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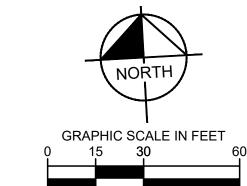
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SHEET NUMBER C1.01

MILES HENNINGTON





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LINS SE 1/

SHEET NUMBER C1.02

MILES HENNINGTON

EXISTING DIRT PILE AND LANDSCAPING TO BE REMOVED EXISTING PAVEMENT TO BE REMOVED. CONTRACTOR TO REMOVE FULL DEPTH OF PAVEMENT. EXISTING PAVEMENT TO BE BORED EXISTING GRAVEL TO BE REMOVED

**KEYED NOTES** EX. TREES TO BE REMOVED (TYP.). REF. LANDSCAPE PLANS FOR DETAILS EX. UTILITY POLE TO REMAIN (TYP.) EX. GUY WIRE TO BE REMOVED. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO CONSTRUCTION  $\langle 4 \rangle$ EX. BOLLARD TO BE REMOVED (TYP.) EX. SIGN TO BE RELOCATED BY OWNER (TYP.) EX. CONCRETE COLUMN TO BE REMOVED (TYP.) FULL DEPTH SAW CUT EX. STORM TO BE REMOVED (TYP.) EX. ADA RAMP STRUCTURE TO BE REMOVED (TYP.) EX. UTILITY POLE TO BE REMOVED. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY PRIOR TO CONSTRUCTION (TYP.) EX. GATE TO REMAIN (TYP.)

### GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.

2. LOCATIONS OF PUBLIC AND PRIVATE UTILITIES SHOWN ARE APPROXIMATE AND MAY NOT BE COMPLETE. CONTRACTOR SHALL CALL TEXAS 811 AT LEAST 48 HOURS PRIOR TO COMMENCING DEMOLITION OR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL CONTACT ANY OTHER UTILITY COMPANIES WHO DO NOT SUBSCRIBE TO THE TEXAS ONE CALL PROGRAM FOR LINE MARKINGS. THE CONTRACTOR BEAR SOLE RESPONSIBILITY FOR VERIFYING LOCATIONS OF EXISTING UTILITIES, SHOWN OR NOT SHOWN, AND FOR ANY DAMAGES DONE TO THESE FACILITIES.

3. ALL EXISTING UTILITIES SHOWN ARE LOCATED ACCORDING TO THE INFORMATION AVAILABLE TO THE ENGINEER AT THE TIME THE DRAWINGS ARE PREPARED AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE ENGINEER. GUARANTEE IS NOT MADE THAT ALL EXISTING UNDERGROUND UTILITIES ARE SHOWN OR THAT THE LOCATION OF THOSE SHOWN ARE ACCURATE. FINDING THE ACTUAL LOCATION OF ANY EXISTING UTILITIES IS THE CONTRACTORS RESPONSIBILITY AND SHALL BE DONE BEFORE HE COMMENCES ANY WORK, IN THE VICINITY. FURTHERMORE, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGE DUE TO THE CONTRACTORS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE OPERATIONS IN THE VICINITY OF EXISTING UTILITIES OR STRUCTURES. NOR FOR TEMPORARY BRACING AND SHORING OF SAME. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.

4. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE OWNER AND NOTIFICATION TO THE ENGINEER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE OWNER AND ENGINEER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.

5. CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC., TO THE BEST PRACTICES AND APPROVED BY THE OWNER.

6. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED PER THE PLANS.

7. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.

8. ALL DEMOLITION WORK OR CONSTRUCTION VEHICLE TRAFFIC WITHIN 10 FEET OF THE CANOPY OF ANY TREE TO BE SAVED SHALL BE CLOSELY COORDINATED WITH TREE PRESERVATION ACTIVITIES.

9. CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST OSHA STANDARDS FOR EXCAVATION AND TRENCHING PROCEDURES. CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, ETC. AS NECESSARY FOR THESE OPERATIONS, AND SHALL COMPLY WITH ALL OSHA PERFORMANCE CRITERIA.

10. CONTRACTOR TO REMOVE FULL DEPTH OF PAVEMENT (ASPHALT AND CONCRETE). REFERENCE SURVEY FOR LIMITS OF PAVEMENT.

## 11. CONTRACTOR TO EPOXY ALL EXPOSED REBAR.

12. CONTRACTOR IS RESPONSIBLE FOR MANAGING STORM WATER RUNOFF WITHIN THE PROJECT AREA DURING CONSTRUCTION, INCLUDING PROVIDING MEASURES FOR TEMPORARY CONVEYANCE OF FLOW WHICH MAY CONSIST OF DIVERSION SWALES OR PUMPING OF WATER TO EXISTING STORM OUTFALL LOCATIONS FROM PROJECT AREA TO MATCH EXISTING DRAINAGE PATTERNS PER THE EXISTING CONDITIONS DRAINAGE AREA

13. CONTRACTOR SHALL SUBMIT A SEQUENCING/PHASING PLAN FOR THE PROPOSED STORM SEWER MODIFICATIONS IN THE SCOPE OF THIS PROJECT TO KIMLEY-HORN FOR REVIEW PRIOR TO COMMENCING CONSTRUCTION. THE STORM SEWER SEQUENCING/PHASING PLAN SHALL INCLUDE THE PROPOSED MEASURES TO BE IMPLEMENTED BY CONTRACTOR FOR MANAGING STORM WATER RUNOFF WITHIN THE PROJECT AREA DURING CONSTRUCTION TO ENSURE RUNOFF IS ROUTED TO MATCH THE

14. CONTRACTOR TO STOCKPILE ALL DEMOED EXISTING ASPHALT PAVEMENT AND BASE MATERIAL ON SRA PROPERTY WITHIN TWO MILES OF THE SITE, AS DIRECTED BY THE

CONTRACTOR NOTES

THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING

THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL BOLLARDS

UTILITY COMPANY CONTACTS

KIMLEY-HORN & ASSOCIATES HAS KNOWLEDGE OF. CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH ALL UTILITIES TO BE AFFECTED.

NOTE: THE FOLLOWING LIST OF UTILITY CONTACTS IS NOT A COMPLETE LIST OF ALL UTILITY COMPANIES WITH FACILITIES IN THE

ARE. IT IS SIMPLY A LIST OF THOSE UTILITY COMPANIES THAT

TREES NOT MARKED FOR REMOVAL.

NOT JUST THOSE LISTED BELOW.

ELECTRIC PROVIDER- DEEP EAST TX CO OP WATER PROVIDER - BROOKLYN FRESH WATER

AND CONCRETE POSTS

NO IMPROVEMENTS

Know what's below.

Call before you dig.

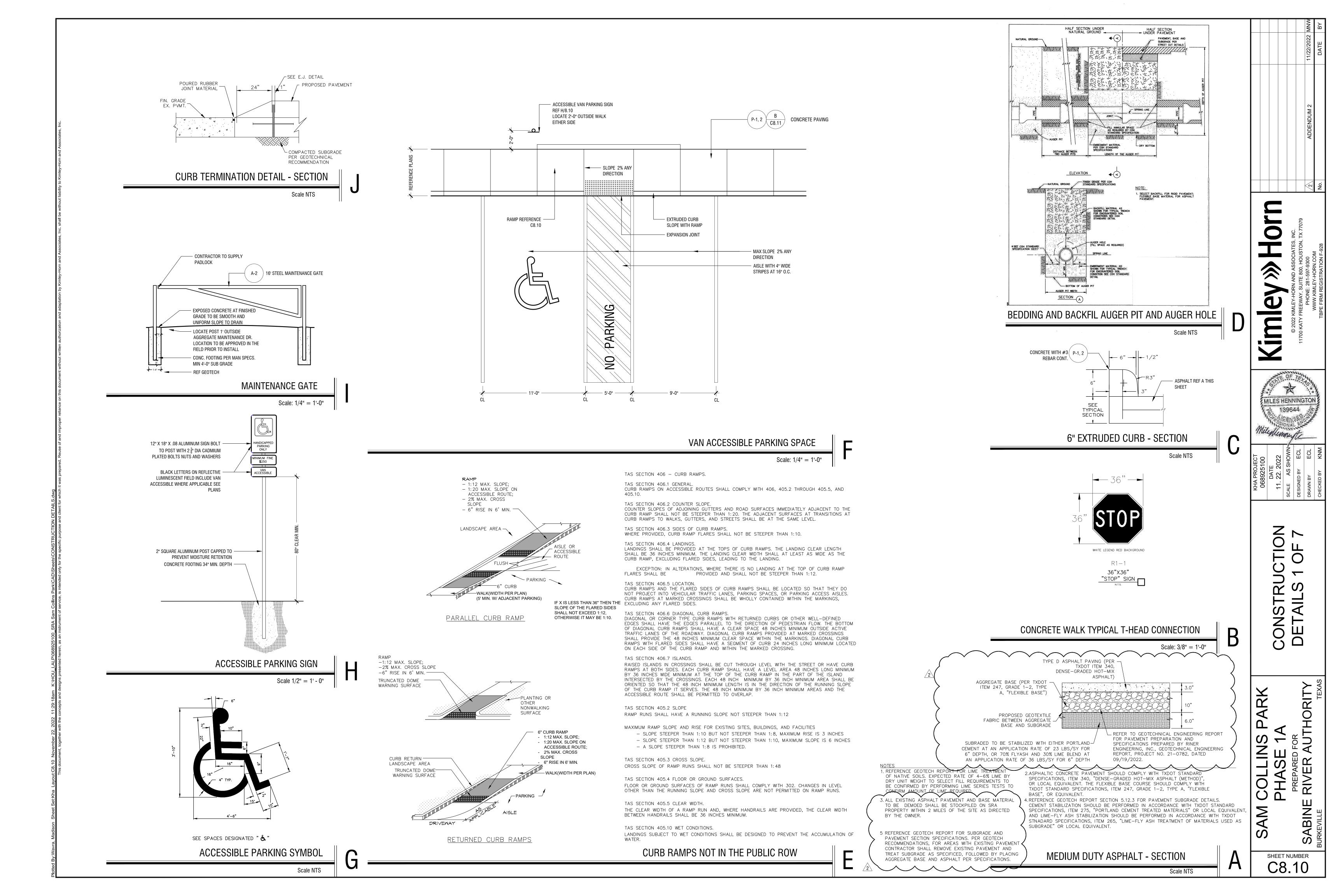
EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCOME
CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES ON THE PLANS.

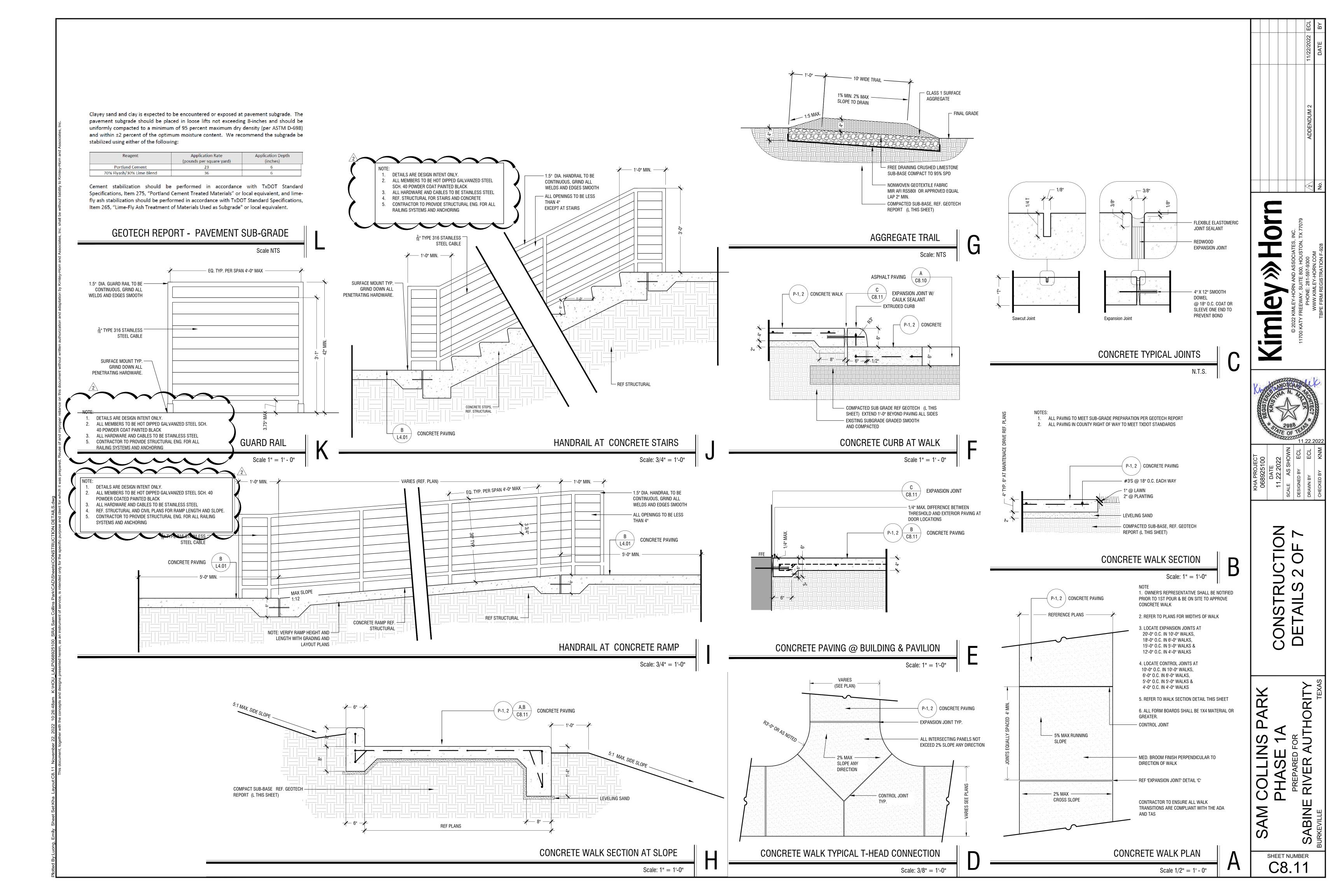
119. TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY

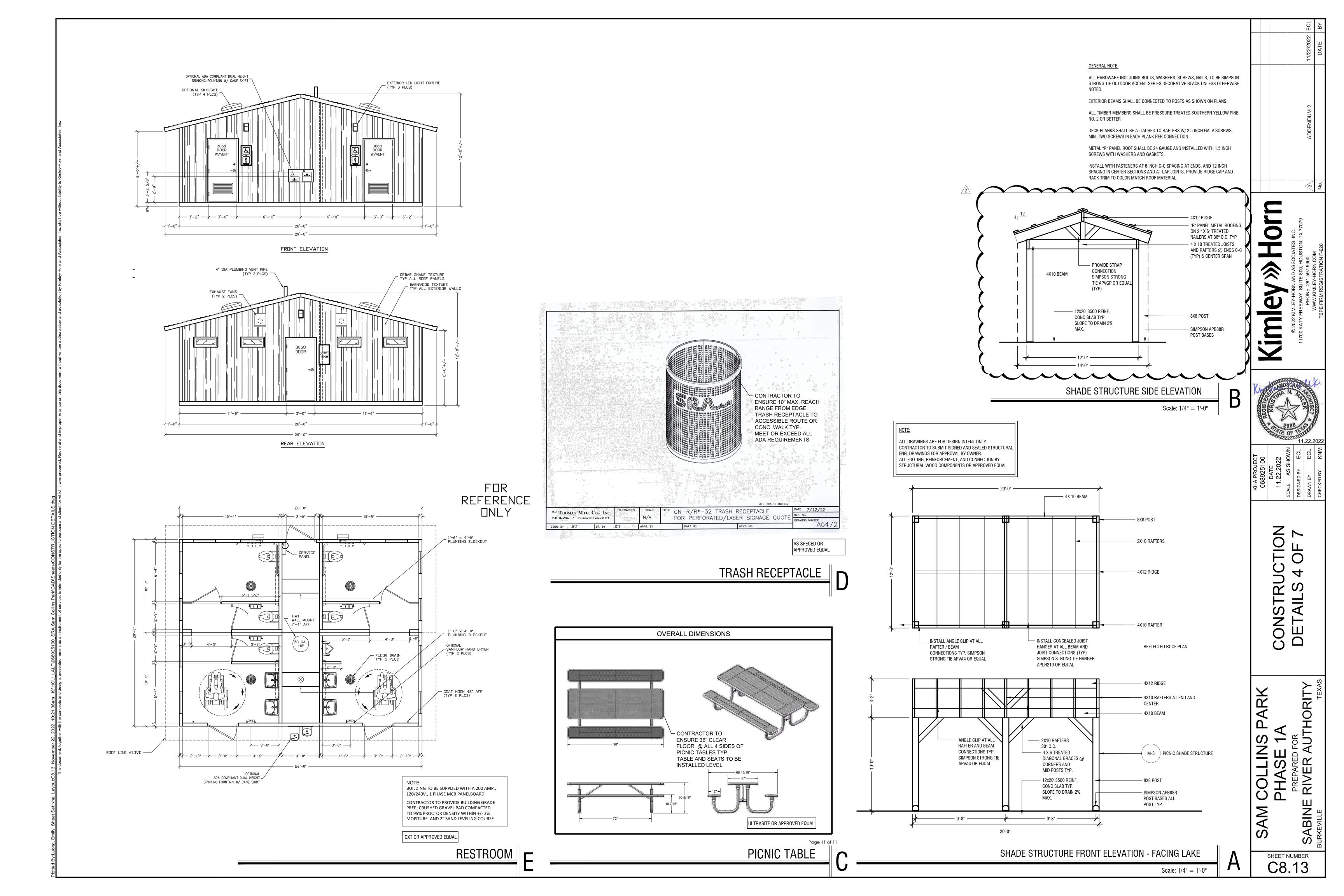
MILES HENNINGTON

THORIT

SHEET NUMBER C1.03







## DESIGN SPECIFICATIONS AND REFERENCES:

- R-1 STRUCTURAL STEEL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN." 13th EDITION.
- R-2 STRUCTURAL CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE AMERICAN CONCRETE INSTITUTE (ACI) PUBLICATION ACI 318-14 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" AND ACI 301- 14," SPECIFICATIONS FOR STRUCTURAL CONCRETE".
- R-3 STRUCTURAL WELDING CODE" D1.1, LATEST EDITION, BY AMERICAN WELDING SOCIETY.
- R-4 REFER TO SOIL BORING INFORMATION AND RECOMMENDATIONS FOR ADDITIONAL INFORMATION.
- R-5 REFER TO ENVIRONMENTAL PERMITS FOR ADDITIONAL REQUIREMENTS.
- R-6 WIND LOADS ARE BASED ON THE ANSI/ASCE 7-15 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES.

A. DEAD LOADS: REINFORCED CONCRETE: 145 PCF.

- R-7 WIND LOADS

  -Vult = 120 MPH (3 second gust)

  -RISK CATEGORY II

  -EXPOSURE D
- -EXPOSURE D R-8 RETAINING WALL:

REPORT.

- B. <u>VERTICAL LIVE LOADS:</u>
- 1. BASIC UNIFORM LIVE LOAD: 100 PSF. APPLIED TO BACK OF WALL IN REGULAR CONDITIONS (HIGH AND LOW TIDE FLUCTUATIONS).

  DESIGN ASSUMPTIONS AND RECOMMENDATIONS FOR GEOTECHNICAL WORK IS BASED ON THE REPORT FOR SAM COLLINS PARK (BURKVILLE).
- WORK IS BASED ON THE REPORT FOR SAM COLLINS PARK (BURKVILLE, TEXAS) PREPARED BY: RINKER ENGINEERING DATED SEPTEMBER 19, 2022 (PROJECT NO. 21–0782)

ALL SUBGRADE, FILL, AND BACKFILL SHALL BE PROVIDED, PREPARED

AND/OR REPLACED IN ACCORDANCE WITH THE ABOVE GEOTECHNICAL

# SURVEYS AND ELEVATION RELATIONSHIP

ALL ELEVATIONS REFER TO N.A.V.D. 88 UNLESS OTHERWISE NOTED. THE LOCATION OF MEAN HIGH WATER AND MEAN LOW WATER LINES WERE BASED ON CLIENT DATA.

 $\wedge \wedge \wedge \wedge \wedge \wedge \wedge$ 

ELEV. =172.00 HIGH WATER

ELEV. =168.00 LOW WATER

- HORIZONTAL CONTROL IS REFERENCED TO NAD83.
- DRAWINGS WERE DEVELOPED BASED ON A TOPOGRAPHIC AND BATHYMETRIC SURVEY INFORMATION PROVIDED BY AND PREPARED BY WINDROSE LAND SURVEY AND PLATTING DATED 2022 (JOB #57398)

# REINFORCED CONCRETE

- RC-1 ALL BOAT RAMP AREA CONCRETE SHALL CONTAIN:
  A. PORTLAND CEMENT -ASTM C150- TYPE II.
  - B. FLY ASH ASTM C618, CLASS F (20%).C. HIGH RANGE WATER REDUCING ADMIXTURE (SUPERPLASTICIZER) AND WATER REDUCING ADMIXTURE.
  - D. LOW WATER-TO-CEMENTITIOUS-MATERIALS RATIO W/CM < 0.40.

4,000 PSI

- E. LIMIT ON SIZE OF LARGE AGGREGATE 57 STONE

  C-2 STRUCTURAL CONCRETE SHALL CONFORM TO ACI 301 SPECIFICATIONS, AND
- STRUCTURAL CONCRETE SHALL CONFORM TO ACT 301 SPECIFICATIONS, AND SHALL DEVELOP THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS, AS WELL AS OTHER PROPERTIES SPECIFIED IN THESE DOCUMENTS. SEE SPECIFICATIONS FOR DESIGN MIX REQUIREMENTS.

CIP RAMPS, WALLS AND FOOTINGS CIP BOAT RAMP

- RC-3 ALL BOAT RAMP CONCRETE SHALL INCLUDE AQUAFIN-IC CRYSTALLINE WATERPROOFING ADMIXTURE OR AN APPROVED EQUIVALENT. ADMIXTURE USAGE SHALL BE IN ACCORDANCE WITH MANUFACTURER'S WRITTEN SPECIFICATIONS.
- RC-4 CONCRETE SHALL BE READY-MIX, REGULAR WEIGHT FOR ALL STRUCTURAL USES, WITH MINIMUM DRY DENSITY OF 140 LBS. PER CUBIC FOOT.
- RC-5 ALL PUMPED CONCRETE CONTAINING #57 AGGREGATE SHALL CONTAIN A HIGH RANGE WATER REDUCING AGENT. MINIMUM SIZE OF DISCHARGE SHALL BE 4 INCHES.
- RC-6 ALL CONCRETE CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE".
- RC-7 CHAMFER ALL EXPOSED CONCRETE EDGES, 1"X1" UNLESS NOTED
- REINFORCING STEEL SHALL BE DETAILED, FABRICATED AND INSTALLED IN ACCORDANCE WITH ACI 318 AND ACI DETAILING MANUAL, ACI 315.
- RC-9 REINFORCING STEEL SHALL BE NEW, DEFORMED BARS, FREE OF RUST,
  SCALE AND OIL, CONFORMING TO ASTM A-615, GRADE 60 WITH A MINIMUM
  YIELD STRENGTH = 60,000 PSI.
- RC-10 LAP SPLICE REINFORCING STEEL AS INDICATED. LAP SPLICES NOT SPECIFICALLY DIMENSIONED SHALL BE IN ACCORDANCE WITH ACI 318, CLASS B AS INDICATED BELOW. TOP BARS ARE HORIZONTAL BARS WITH 12 INCHES OR MORE OF CONCRETE CAST BELOW THE BARS. IN BEAMS, LAP CONTINUOUS BOTTOM STEEL OVER SUPPORTS AND CONTINUOUS TOP STEEL AT MIDSPAN, UNLESS NOTED OTHERWISE.

5,000 PSI 23"	5,000 PSI 17"
23"	17"
	17
30"	23"
37"	28"
45"	34"
64"	49"
73"	56"
82"	63"
93"	71"
103"	78"
123"	94"
163"	125"
	37" 45" 64" 73" 82" 93" 103" 123"

# REINFORCED CONCRETE CONT.

- RC-11 TERMINATE ALL DISCONTINUOUS ENDS OF TOP BARS WITH STANDARDS ACI HOOKS. TURN HOOKS UP OR DOWN INTO SUPPORTING STRUCTURE. CORNER BARS SHALL BE SUPPLIED AND PLACED IN ADDITION TO HOOKED ENDS, PER THE DETAILS IN THESE DOCUMENTS.
- RC-12 PROVIDE 3 INCH MINIMUM CONCRETE COVERAGE OVERALL REINFORCING UNLESS NOTED OTHERWISE.
- RC-13 ALL PENETRATIONS THROUGH SLABS, BEAMS OR FOOTINGS SHALL BE SLEEVED INDIVIDUALLY. CORE DRILLING OF EXISTING CONCRETE MEMBERS WILL NOT BE PERMITTED, UNLESS NOTED ON PLANS. SUBMIT LOCATIONS AND SIZES OF ALL SLEEVES FOR ENGINEER APPROVAL PRIOR TO CASTING.
- RC-14 WHERE WALLS, BEAMS AND CAPS CHANGE DIRECTION, PROVIDE CORNER BARS OF SAME SIZE AND QUANTITY AS THE SPECIFIED LONGITUDINAL STEEL.
- RC-15 FOLLOW ACI 301, ACI 305 AND ACI 306 FOR HOT AND COLD WEATHER CONCRETE WORK.
- RC-16 ALL EMBEDDED ITEMS SHALL BE SECURELY FIXED AND MAINTAINED IN POSITION PRIOR TO AND DURING CONCRETE PLACEMENT.
- RC-17 NOT MORE THAN ONE-HALF OF THE REINFORCING BARS SHALL BE SPLICED AT ANY ONE LOCATION, WITH ADJACENT SPLICES STAGGERED NOT LESS THAN ONE LAP SPLICE LENGTH BETWEEN SPLICES.
- RC-18 HOOKS AT THE ENDS OF REINFORCING BARS SHALL BE STANDARD ACI 90 DEGREE AND 180 DEGREE HOOKS CONFORMING TO ACI 318.
- RC-19 DO NOT CUT, BEND OR OTHERWISE MODIFY REINFORCING STEEL IN THE FIELD. REINFORCING BARS SHALL NOT BE DISPLACED PRIOR TO OR DURING CONCRETE PLACING TO ACCOMMODATE ANCHORS, EMBEDS, OR OTHER ITEMS.
- RC-20 CONCRETE CAP SHALL NOT BE POURED WITHIN 300 FEET OF PILE DRIVING OR VIBRATORY HAMMER OPERATIONS TO AVOID CRACKING, SETTLING ON IMPACTS TO CURING.
- RC-21 INTENTIONALLY ROUGHEN ALL EXISTING SMOOTH CONCRETE SURFACES TO RECEIVE FRESH CONCRETE PLACEMENT TO AT LEAST A 1/4" AMPLITUDE.
- RC-22 CONCRETE BULKHEAD CAP CAN NOT BE POURED WITHIN 7 DAYS OF A PREVIOUS ADJACENT POUR. SKIP POURING WILL BE REQUIRED.

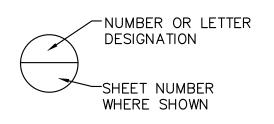
# STRUCTURAL STEEL/METALS

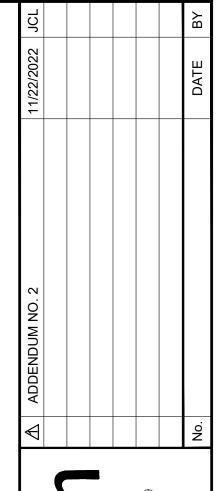
- S-1 FABRICATION AND ERECTION OF MISCELLANEOUS FABRICATIONS SHALL CONFORM TO THE A.I.S.C. "MANUAL OF STEEL CONSTRUCTION", NINTH EDITION AND THE A.I.S.C. "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS", 1989.
- S-2 STEEL SHAPES, PLATES, BRACKETS, SEATS AND OTHER FABRICATIONS SHALL BE OF STEEL CONFORMING TO A.S.T.M. A36, WITH A MINIMUM YIELD STRESS OF 36 KSI.
- S-3 TUBE SECTIONS SHALL CONFORM TO A.S.T.M. A500, GRADE B WITH A MINIMUM YIELD STRESS OF 46 KSI. PIPE SHALL CONFORM TO A.S.T.M. A501 OR A53, TYPES E OR S, WITH A MINIMUM YIELD STRESS OF 36 KSI.
- S-4 UNLESS OTHERWISE NOTED, ALL BOLTS SHALL BE 3/4" DIAMETER A325-X AND SHALL BE USED IN BEARING-TYPE CONNECTIONS. ALL HIGH STRENGTH BOLTS SHALL MEET THE REQUIREMENTS OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING A.S.T.M. F3125, GR A325, TYPE I BOLTS.
- S-5 ALL BOLTS WHICH ARE TO BE CAST INTO CONCRETE SHALL BE A.S.T.M. A36 OR A307, UNLESS NOTED OTHERWISE.
- S-6 SUBMIT MISCELLANEOUS FABRICATIONS SHOP AND ERECTION DRAWINGS FOR REVIEW BY THE ENGINEER. ANY SPLICES OR CONNECTIONS NOT FULLY PROVIDED IN THESE PLANS SHALL BE DESIGNED BY A DELEGATED ENGINEER WHO OVERSEES THE DETAILING OF THE STEEL SHOP AND ERECTION DRAWINGS, AND BEAR THE SEAL OF THAT INDIVIDUAL, BEING A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA. PROVIDE SIGNED AND SEALED ENGINEERING CALCULATIONS FOR ANY SPECIAL MOMENT SPLICE DESIGNS.
- S-7 PILE DRIVING LOGS SHALL BE MAINTAINED AND SHALL BE SUBMITTED TO THE ENGINEER WITHIN TWO DAYS AFTER DRIVING.
- S-8 ALL STEEL PIPE PILES SHALL BE SANDBLASTED TO A NEAR WHITE FINISH AND COATED WITH 16 MILS TOTAL DFT OF COAL TAR EPOXY. COATING SHALL EXTEND AS INDICATED.
- S-9 HAND RAILINGS AND LADDER SHALL BE PAINTED PURE WHITE TO MATCH EXISTING BASED ON A THREE PART SYSTEM CONSISTING OF A ZINC RICH PRIMER, EPOXY PAINT AND URETHANE FINISH COAT WITH A MINIMUM DRY FILM THICKNESS OF 16 MILS. THE COATING SYSTEM SHALL BE APPROVED PRIOR TO ANY WORK.

# WELDING

- W-1 WELDING OF METAL FABRICATIONS SHALL CONFORM TO (AWS)
  "STRUCTURAL WELDING CODE- STEEL", D1.1.
- W-2 ALL SHOP AND FIELD WELDING SHALL BE PERFORMED BY CERTIFIED AND APPROVED WELDERS.
- W-3 ALL WELDED CONNECTIONS SHALL BE PRE-QUALIFIED IN ACCORDANCE WITH AWS D1.1.
- W-4 ALL WELDED STEEL CONNECTIONS SHALL BE MADE USING SHIELDED METAL ARC PROCESS, OR APPROVED EQUAL, WITH ELECTRODES CONFORMING TO E70XX.
- W-5 ALL WELDS (SHOP AND FIELD) SHALL BE INSPECTED (VISUAL AND RT, MT AND BY AWS CERTIFIED WELDING INSPECTORS (CWI) PER SPECIFICATIONS..

## SECTION/DETAIL KEY





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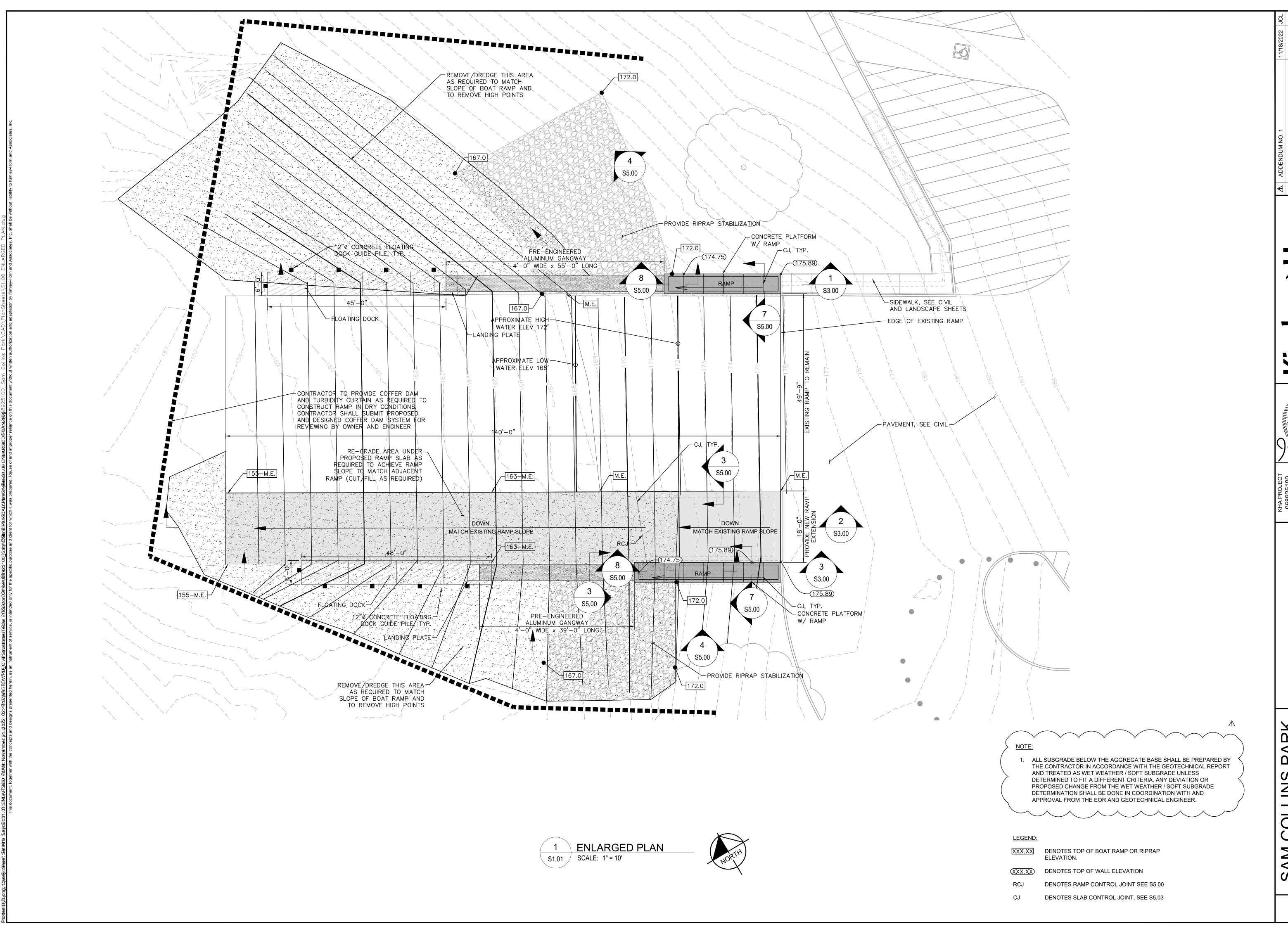


DATE
NOV. 1, 2022
SCALE AS SHOWN
DESIGNED BY JCL
DRAWN BY AMG

STRUCTURAL NOTES

M COLLINS PARK
PHASE 1A
PREPARED FOR

SHEET NUMBER
S0.01



\*\*\* JON CASEY LONG

ARGED

COLLINS PHASE 1/

SHEET NUMBER S1.01

