GENERAL NOTES

ALL WORK SHALL BE DONE IN ACCORDANCE WITH COLORADO DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION SPECIFICATIONS, 2022 EDITION. APPLICABLE TO THIS PROJECT.

LOCAL OWNER CRITERIA INCLUDING CITY OF COLORADO SPRINGS REQUIREMENTS SHALL ALSO APPLY AND WHEN IN CONFLICT WITH CDOT REQUIREMENTS, SHALL SUPERCEDE CDOT REQUIREMENTS AT THE OWNER'S DISCRETION

STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH DETAILS SHOWN IN THESE PLANS AND SECTION 206 OF THE CDOT STANDARD SPECIFICATIONS

EXPANSION JOINT MATERIAL SHALL MEET AASHTO SPECIFICATION M-213.

THE FINAL FINISH FOR ALL EXPOSED CONCRETE SURFACES SHALL BE CLASS 2 TO 1'-0" BELOW FINISHED GRADE, UNLESS NOTED OTHERWISE

WHERE SPECIFIED IN THE PLANS, THE FORMLINER FINISH SHALL EXTEND TO 1'-0" MINIMUM BELOW FINISHED GRADE.

GRADE 60 REINFORCING STEEL IS REQUIRED.

ALL CAST-IN-PLACE CONCRETE SHALL BE CLASS D UNLESS NOTED OTHERWISE.

ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED ³/₄ INCH, UNLESS NOTED OTHERWISE IN PLANS.

PROVIDE 2 INCH CLEAR COVER TO ALL REINFORCING, UNLESS SHOWN OR NOTED OTHERWISE.

ALL REINFORCING STEEL SHALL BE EPOXY-COATED UNLESS NOTED OTHERWISE.

ALL CONSTRUCTION JOINTS SHALL BE THOROUGHLY CLEANED BEFORE FRESH CONCRETE IS PLACED.

THE CONTRACTOR SHALL NOT BACKFILL STRUCTURES UNTIL RETAINING WALLS HAVE REACHED 80% OF DESIGN STRENGTH.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE STRUCTURES DURING CONSTRUCTION.

| E.F. | = | EACH FACE | 0.F. = | OUTSIDE FACE |
|------|---|-----------|---------|----------------|
| F.F. | = | FAR FACE | T.&B. = | TOP AND BOTTOM |
| NF | = | NEAR FACE | TF = | TOP FACE |

| N.F. | = | NEAR FACE | T.F. | = | TOP FACE |
|------|---|-------------|------|---|-------------|
| I.F. | = | INSIDE FACE | B.F. | = | BOTTOM FACE |
| | | | | | |

O.C. = ON CENTER

STATIONS, ELEVATIONS, AND DIMENSIONS CONTAINED IN THESE PLANS ARE CALCULATED FROM CIVIL PLAN SET. THE CONTRACTOR SHALL VERIFY ALL DEPENDENT DIMENSIONS IN THE FIELD BEFORE ORDERING OR FABRICATING ANY MATERIAL

THE INFORMATION SHOWN ON THESE PLANS CONCERNING THE TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT 1-800-922-1987 AT LEAST 2 DAYS (NOT INCLUDING THE DAY OF NOTIFICATION) PRIOR TO ANY EXCAVATION OR OTHER EARTHWORK



SECTION OR DETAIL IDENTIFICATION CROSS-REFERENCE SHEET NUMBER (-- = SAME SHEET)

GENERAL DESIGN DATA

REINFORCED CONCRETE: CLASS D CONCRETE: f'c = 4,500 psi TYPE II CEMENT REQUIRED f'y = 60,000 psi REINFORCING STEEL:

REFER TO GEOTECHNICAL REPORTING NO. 211647 BY ENTECH ENGINEERING, IN., DATED APRIL 5, 2022 AND ANY AGENDA THERETO, FOR ADDITIONAL INFORMATION AND REQUIREMENTS

PER GEOTECH REPORT LISTED ABOVE: 2400 PSF (NATIVE SAND) 3000 PSF (STRUCTURAL FILL) 3500 PSF (SANDSTONE BEDROCK)

DESIGN DATA FOR CULVERTS

DESIGNED IN ACCORDANCE WITH AASHTO LRFD, 9th EDITION 2020

ALL BOX CULVERTS LIVE LOAD: HL-93 LIVE LOAD SURCHARGE: 2 FT DEPTH EQUIVALENT FLUID PRESSURE: 30-90 PCF

THREE-CELL BOX CULVERT INTERIOR FLUID: 8 FT ABOVE TOP SLAB FILL RANGE: 2 FT TO 8 FT MAXIMUM CALCULATED BEARING PRESSURE = 1300 PSF

10x12 BOX CULVERT INTERIOR FLUID: 13.5 FT ABOVE TOP SLAB FILL RANGE: 5.5 FT TO 17.5 FT MAXIMUM CALCULATED BEARING PRESSURE = 3100 PSF

10x10 BOX CULVERT INTERIOR FLUID: 3.5 FT ABOVE TOP SLAB MAXIMUM CALCULATED BEARING PRESSURE = 1500 PSF

DESIGN DATA POND OUTLET STRUCTURES

DESIGNED IN ACCORDANCE WITH IBC 2018 / ACI 318

POND STRUCTURE #1 EQUIVALENT FLUID PRESSURE: 60-90 PCF

LIVE LOAD: 100 PSF OR 200 LBS CONCENTRATED LOAD ON STEEL GRATING LIVE LOAD SURCHARGE: N/A INTERIOR FLUID DEPTH: FULL AND EMPTY CONSIDERED FOR STRUCTURAL CAPACITY AND BUOYANCY MAXIMUM CALCULATED BEARING PRESSURE: 2,500 PSF

POND STRUCTURE #2 EQUIVALENT FLUID PRESSURE: 60-90 PCF LIVE LOAD: 100 PSF OR 200 LBS CONCENTRATED LOAD ON STEEL GRATING LIVE LOAD SURCHARGE: NA INTERIOR FLUID DEPTH: FULL AND EMPTY CONSIDERED FOR STRUCTURAL CAPACITY AND BUOYANCY MAXIMUM CALCULATED BEARING PRESSURE: 1,500 PSF

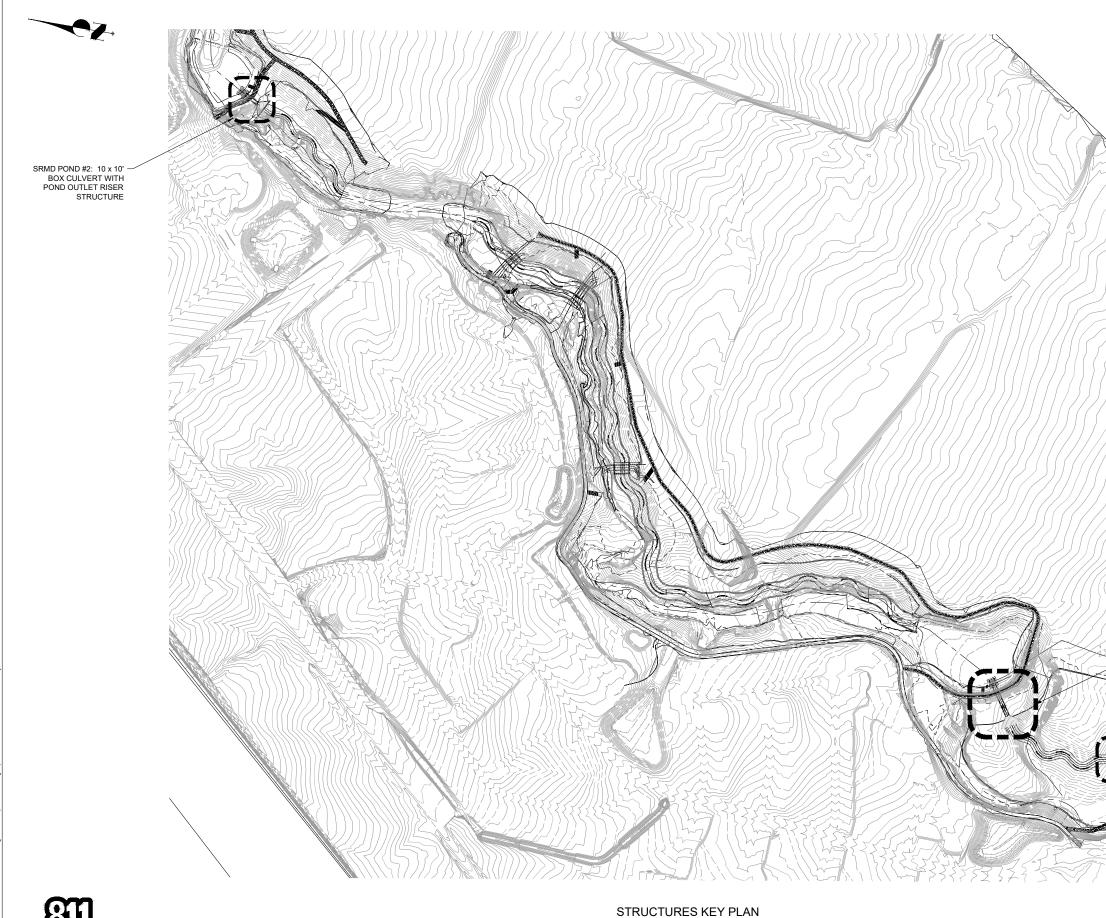
DESIGN DATA FOR WINGWALLS AND HEADWALLS

DESIGNED AND DETAILED BY JR ENGINEERING. REFER TO CIVIL SETS FOR DETAILS.

| STRUCTURE DESCRIPTION AND STRUCTURAL SCOPE OF WORK NARRATIVE | STRUCT | FURAL DRAWING INDEX SITE STRUCTURES GENERAL NOTES & STRUCTURAL INFORMATION AND INDEX | H TIMF AS | RAWINGS ARE | VIIV VES | ONLY FOR THE DESIGNATED B) UTHORIZATION. |
|--|-----------|---|-------------------------------|-------------|---------------------------------------|--|
| | S01 OF 24 | STRUCTURES KEY PLAN | | OVED | E M L S | USE (OSES [EN AU |
| THREE-CELL CAST-IN-PLACE REINFORCED CONCRETE BOX CULVERT CARRYING POND BERM AND CUTOFF WALL OVER SAND CREEK | S02 OF 24 | STOCK POND W-3 3-CELL BOX CULVERT GENERAL LAYOUT | L N | APPR | | THEIR L PURPOS WRITTEN |
| CHANNEL OUTLET FROM POND W-3. | S04 OF 24 | STOCK POND W-3 OUTLET 3-CELL BOX CULVERT TYPICAL REINFORCING SECTIONS | | | 0903 | |
| 13'-0" INTERIOR WIDTH (ALL CELLS) 4'-0" INTERIOR HEIGHT (EXTERIOR CELLS) | S05 OF 24 | STOCK POND W-3 OUTLET BASIN STRUCTURAL DETAILS | | T O T | - ~~ 、 | |
| 2'-0" INTERIOR HEIGHT (INTERIOR CELLS) 93'-0" HEADWALL-TO-END | S06 OF 24 | STOCK POND 1 OUTLET 12' x 10" RCBC GENERAL LAYOUT | FOR | LC | 200 200 201 | 024 024 |
| SINGLE-CELL CAST-IN-PLACE REINFORCED CONCRETE BOX CULVERT | S07 OF 24 | STOCK POND 1 OUTLET 12'X 10 'RCBC TYPICAL REINFORCING SECTIONS | ED F | ND, L | NGS | (719) 419-3024 |
| CARRYING POND EMERGENCY SPILLWAY AND CUTOFF WALL OVER SAND CREEK CHANNEL OUTLET FROM POND #1. | S08 OF 24 | STOCK POND 1 OUTLET 12' x 10' RCBC DROP STRUCTURE PLANS | PREPARED | LAN | SPRI SPRI | |
| 12'-0" INTERIOR WIDTH | S09 OF 24 | STOCK POND 1 OUTLET 12' x 10' RCBC DROP STRUCTURE REINFORCING SECTIONS | PR | SR | | 1412 |
| 10'-0" INTERIOR HEIGHT 8'-6" INTERMEDIATE DROP | S10 OF 24 | STOCK POND 1 OUTLET 12' x 10' RCBC DROP STRUCTURE MISC DETAILS | | | COLOR | |
| 149-0" HEADWALL TO POND OUTLET RISER | S11 OF 24 | STOCK POND 2 OUTLET 10' x 10" RCBC GENERAL LAYOUT | - | | 8 | |
| SINGLE-CELL CAST-IN-PLACE REINFORCED CONCRETE BOX CULVERT CARRYING POND EMERGENCY SPILLWAY AND CUTOFF WALL OVER | S12 OF 24 | STOCK POND 2 COTEL TO X 10 KOBC CENERAL ENTOCY | | ပ္စု | | |
| SAND CREEK CHANNEL OUTLET FROM POND #2. | S13 OF 24 | BOX CULVERT STRUCTURES COLLAR DETAILS | | Ľ | _ | |
| 10'-0" INTERIOR WIDTH 10'-0" INTERIOR HEIGHT | S14 OF 24 | STOCK POND #1 OUTLET STRUCTURE BASE SLAB AND WALL PLAN | | ring | 5 | |
| 68'-8" HEADWALL TO POND OUTLET RISER | S15 OF 24 | STOCK POND #2 OUTLET STRUCTURE BASE SLAB AND WALL PLAN | | nee | 2 | |
| CAST-IN-PLACE REINFORCED CONCRETE VERTICAL OUTLET RISER FROM POND #1. | S15 OF 24 | STOCK FOND #2 OUTLET STRUCTURE BASE SLAD AND WALL FLAN | | Engineering | | n Blvd. #200 3120 |
| 25'-0" SQUARE INTERIOR WIDTH | S10 OF 24 | STOCK POINDS #1 & #2 OUTLET STRUCTURES FRAMING PLAN | | E E | | ∦rd. |
| 24-1 1/2" INTERIOR HEIGHT STEEL-FRAMED GRATED TOP | S17 OF 24 | STOCK FONDS #1 & #2 OUTLET STRUCTURES FRAMING FLAM | | San | | eton E 80120 |
| CAST-IN-PLACE REINFORCED CONCRETE VERTICAL OUTLET RISER | S18 OF 24 | STOCK FOND #1 OUTLET STRUCTURE REINFORCING SECTIONS | | | | ΪΞ. |
| FROM POND #2. | S20 OF 24 | STOCK FOND #2 OUTLET STRUCTURE REINFORCING SECTIONS | | | <u>ا</u> | 1150 W. Littleton E Littleton, CO 80120 |
| 25'-0" SQUARE INTERIOR WIDTH 16'-8 3/4" INTERIOR HEIGHT | S21 OF 24 | STOCK POINDS #1 & #2 OUTLETS TRUCTORES MISCELLANEOUS DETAILS | | V, | // | |
| STEEL-FRAMED GRATED TOP | S21 OF 24 | STOCK POINDS #1 & #2 OUTLETS ACCESSIBLE PANEL DETAILS | | * | | |
| REFER TO CIVIL PLAN SET BY JR ENGINEERING FOR DETAILS OF | S23 OF 24 | | ATE | | | |
| HEADWALLS, WINGWALLS AND CUTOFF WALLS. | S23 OF 24 | STOCK PONDS #1 & #2 OUTLET STRUCTURES HAND RAIL DETAILS BOX CULVERT STRUCTURES MISCELLANEOUS DETAILS | DA | | | |
| | | BURGESS RD BURGESS RD BRIARCATE PRWY SITE COMPOKE RD COMPOKE RD | H-SCALE AS NOTED No. REVISION | щ | DESIGNED BY KSP | DRAWN BY JJM |
| e standard signature ncluding district | | E WOOMEN RO FOREST MEADONS ANE WARKSHEFFEL RD KEY MAP SCALE: 1"=1500" | RESTORATION | NG RANCH | SILE SIRUCIURES GENERAL STRUCTURAL | ON AND INDEX |
| | | STRUCTURAL ENGINEER'S STATEMENT prepared under my direct supervision <u>90% SUBMITTAL</u> NOT FOR CONSTRUCTION | SAND | S | GEN | INFOF |

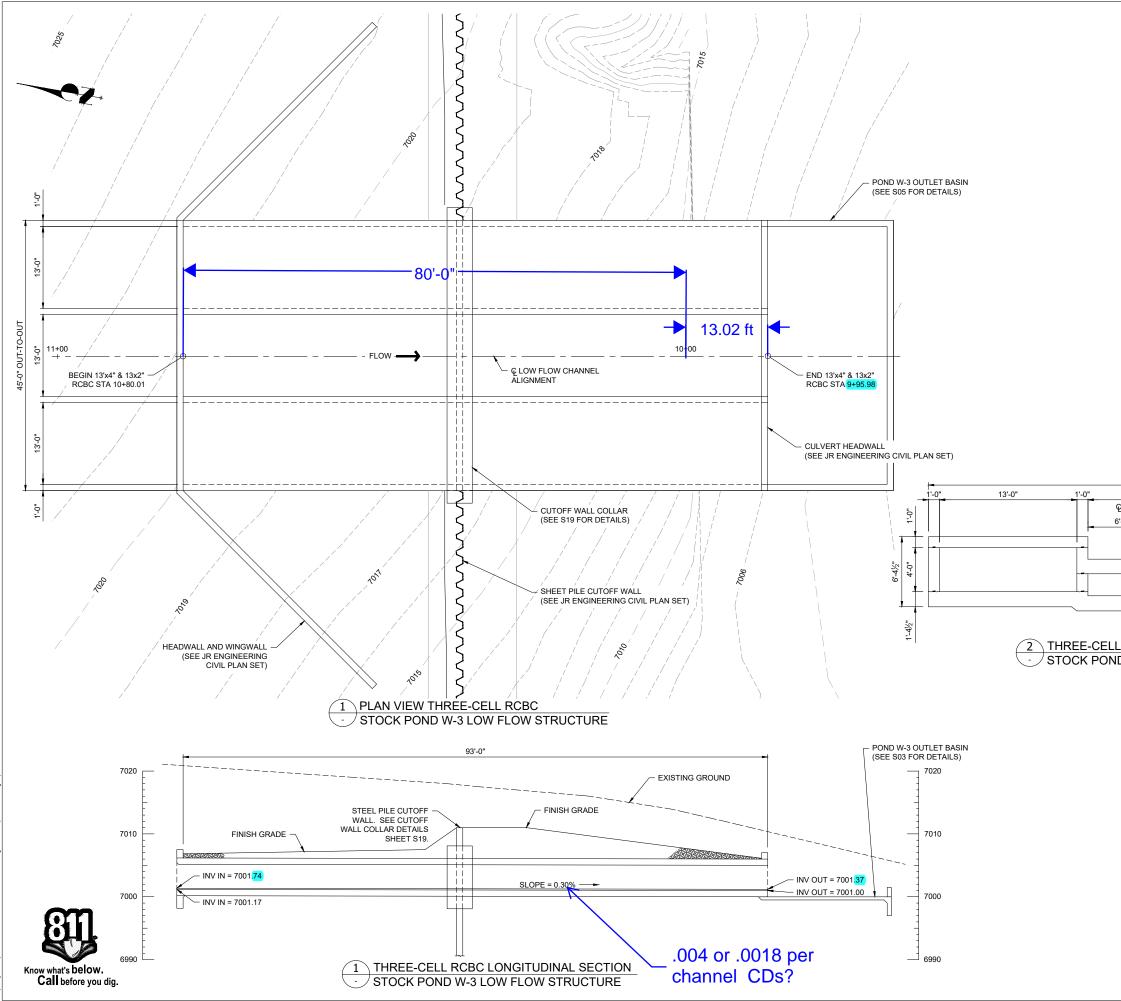
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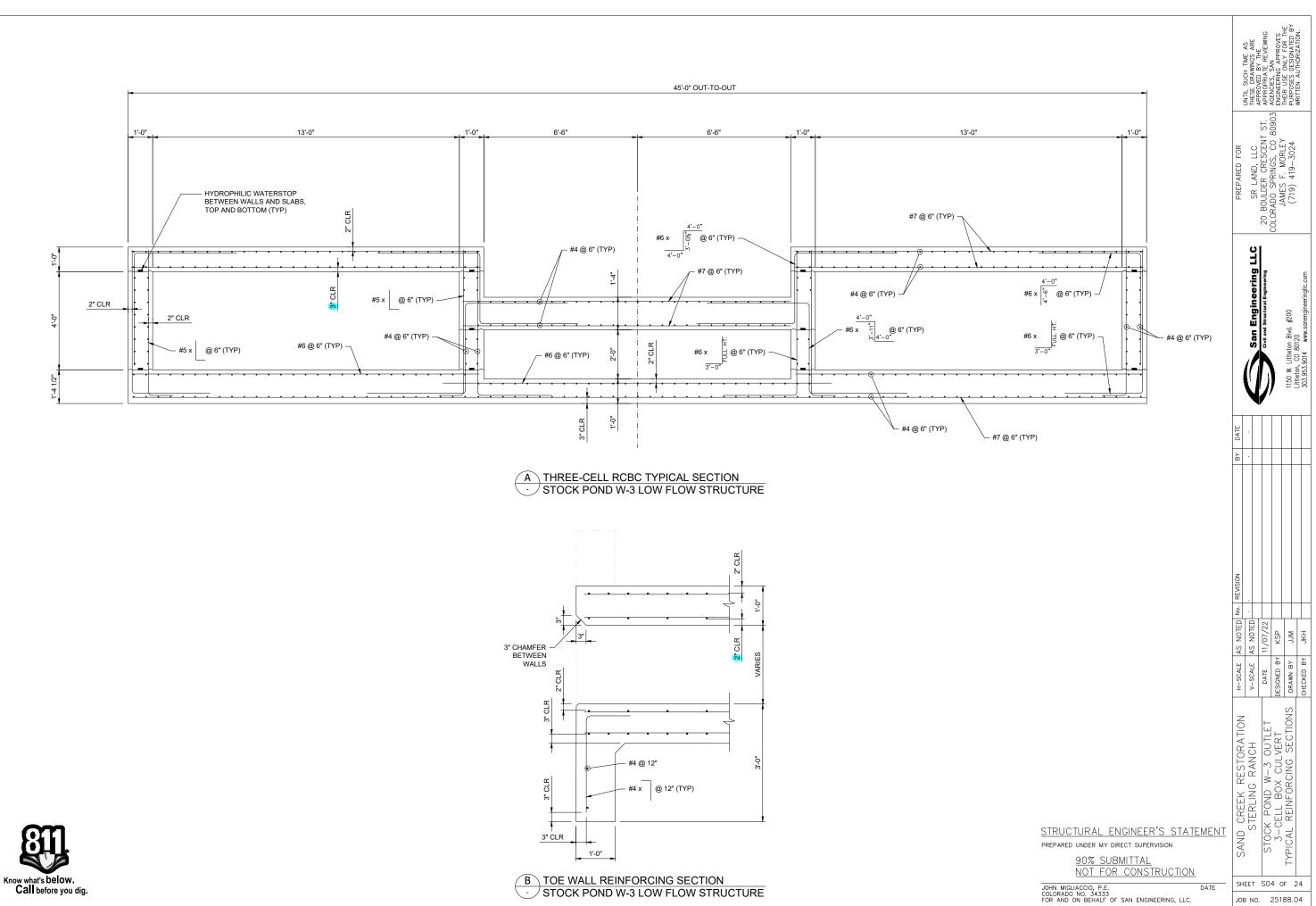


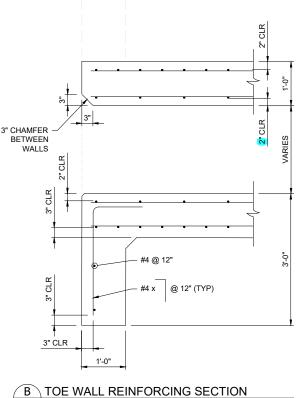


| | | UNTIL SUCH TIME AS THESE DRAWINGS ARE | APPROVED BY THE APPROPRIATE REVIEWING | | PURPOSES DESIGNATED BY | |
|--|-------------------------------|--|--|--|------------------------------|---|
| | PREPARED FOR | | 20 BOULDER CRESCENT ST. | COLORADO SPRINGS, CO 80903 James e moriev | (719) 419-3024 | |
| | | San Engineering LLC | Civil and Structural Engineering |) | 1150 W. Littleton Blvd. #200 | Littleton, cU 80120 303.953.9014 www.sanengineeringlic.com |
| | BY DATE | | | | | |
| SRMD POND #1: 12 x 10' BOX CULVERT WITH INTERMEDIATE DROP STRUCTURE AND POND OUTLET RISER STRUCTURE POND W-3: 3-CELL BOX CULVERT AND CONCRETE OUTLET BASIN | H-SCALE AS NOTED No. REVISION | V-SCALE AS NOTED | DATE 11/07/22 | DESIGNED BY KSP | DRAWN BY JJM | CHECKED BY JKH |
| | RESTORATION | STERLING RANCH | | STRUCTURES KEY PLAN | DR | CHE |
| STRUCTURAL ENGINEER'S STATEMENT PREPARED UNDER MY DIRECT SUPERVISION 90% SUBMITTAL | SAND CF | STE | | STRUC | | |
| NOT FOR CONSTRUCTION JOHN MIGLIACCIO, P.E. DATE COLORADO NO. 34333 FOR AND ON BEHALF OF SAN ENGINEERING, LLC. | - | IEET B NO | | 2 0 251 | | 24 04 |

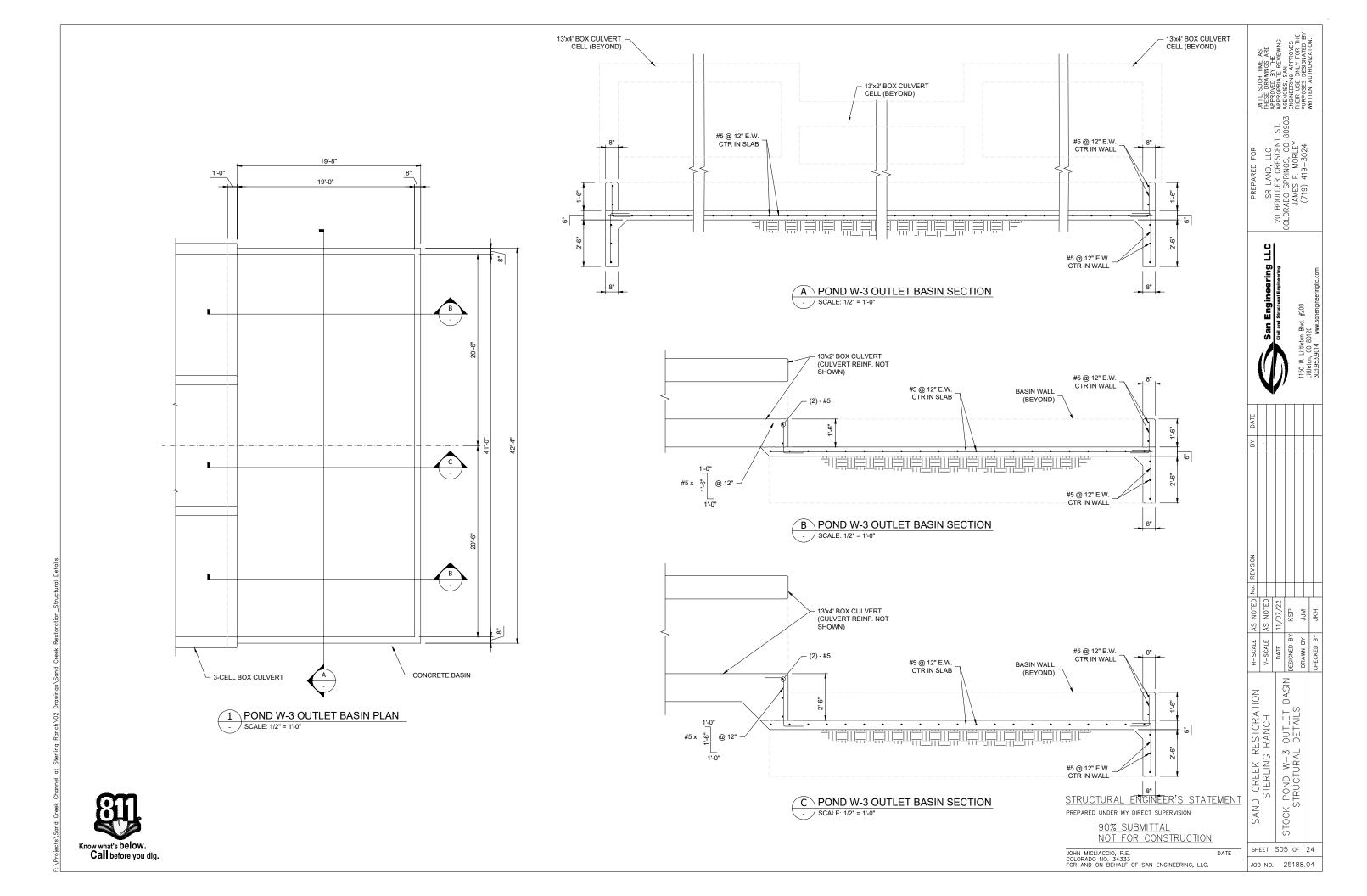


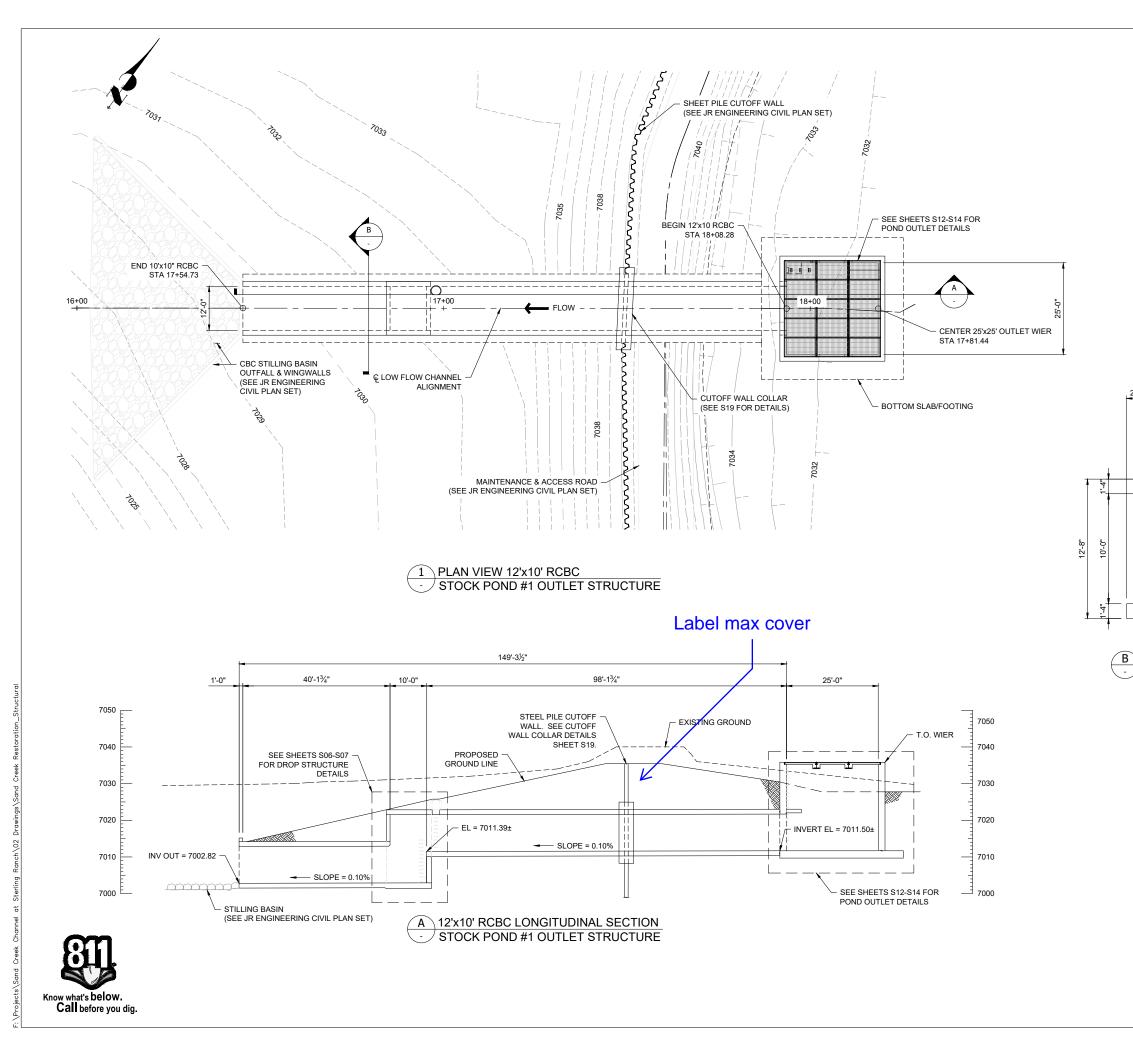
| 45-0" 13 | | SV EME HOLIS IENI | THESE DRAWINGS ARE | | | PURPOSES DESIGNATED BY | WRITTEN AUTHORIZATION. |
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| 45-0" 13-0" 13-0" LOW FLOW CHANNEL 140" 140 | | PREPARED FOR | SR LAND, LLC | 20 BOULDER CRESCENT ST. | CULURADU SPRINGS, CU QUYUS | (719) 419-3024 | |
| Alignment 6.6° CULVERT SECTION DW-3 LOW FLOW STRUCTURE STRUCTURAL ENGINEER'S STATEMENT PREPARED UNDER MY DIRECT SUPERVISION 90% SUBMITTAL NOT FOR CONSTRUCTION | | | San Engineering LLC | Civil and Structural Engineering | | 1150 W. Littleton Blvd. #200 | Littleton, CU 80120 303.953.9014 www.sanengineeringllc.com |
| 13-0° 1-0° 13-0° 100 ELOW FLOW CHANNEL -6° 40 100 -6° 40 100 - | 45'-0" | DATE | | | | | |
| SIERLING RESTORATION STERLING RANCH STERLING RANCH NOT FOR CONSTRUCTION Neterked by UNDED STERLING RANCH NOT FOR CONSTRUCTION Neterked by UNDED Neterked by U | Ç LOW FLOW CHANNEL 6'-6" ALIGNMENT 6'-6" | REVISION | · · | | | | |
| STRUCTURAL ENGINEER'S STATEMENT PREPARED UNDER MY DIRECT SUPERVISION 3. CELL BOX CULVERT BREMIN BY GENERAL LAYOUT DRAWN BY OT FOR CONSTRUCTION H-SCALE DATE DATE DATE DRAWN BY CENERAL DATE DATE DRAWN BY CENERAL DATE DRAWN BY CENERAL DATE DATE DRAWN BY CENERAL DATE DATE DRAWN BY CENERAL DATE DRAWN BY CENERAL DATE DRAWN BY CENERAL DATE DATE DRAWN BY CENERAL DATE DRAWN BY DRAWN | | NOTED | S NOTED | 1/07/22 | KSP | WLL | НЖГ |
| 90% SUBMITIAL NOT FOR CONSTRUCTION | | | | | | | |
| JOHN MIGLIACCIO, P.E. DATE SHEET SO3 OF 24 COLORADO NO. 34333 FOR AND ON BEHALF OF SAN ENGINEERING, LLC. JOB NO. 25188.04 | PREPARED UNDER MY DIRECT SUPERVISION | SAND CREEK RESTORATION | STERLING RANCH | OCK POND W- | L BOX CUL | | |
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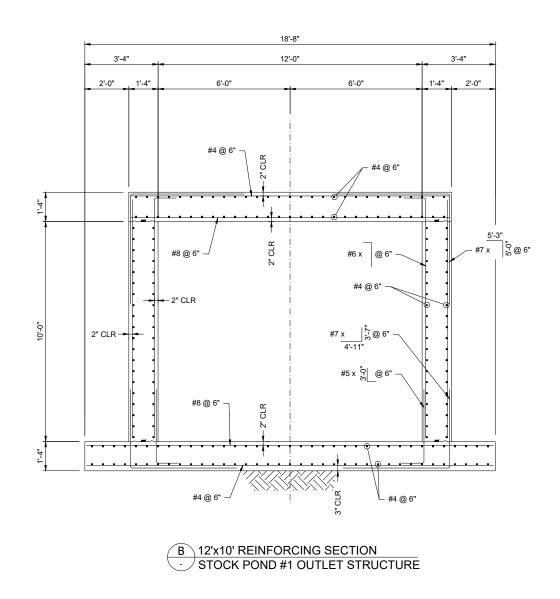


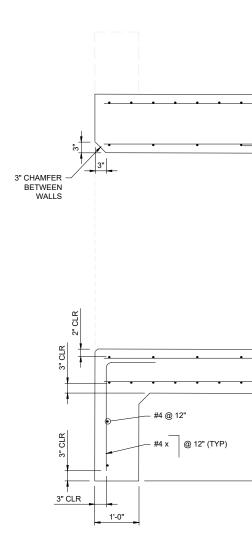






| | | UNTIL SUCH TIME AS THESE DRAWINGS ARE | | | THEIR USE ONLY FOR THE PURPOSES DESIGNATED BY | WRITTEN AUTHORIZATION. |
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| | PREPARED FOR | SR I AND IIC | 20 BOULDER CRESCENT ST. | COLORADO SPRINGS, CO 80903 | (719) 419-3024 | |
| 2'-0" 14'-8" 2'-0" -1'-4" 12'-0" 1'-4" Ç LOW FLOW CHANNEL ALIGNMENT 6'-0" 6'-0" | : | San Engineering LLC | Civil and Structural Engineering | | 1150 W. Littleton Blvd. #200 | Littleton, CO 80120 303.953.9014 www.sanengineeringlic.com |
| | DATE | | | | | |
| | BY D | • | | | | |
| | | | | | | |
| 12'x10' TYPICAL SECTION STOCK POND #1 OUTLET STRUCTURE | REVISION | | | | | |
| | v | | | | | |
| | AS NOTED | AS NOTED | 11/07/22 | | MUL | ЧЧ |
| | H-SCALE | V-SCALE | DATE | DESIGNED BY | DRAWN BY | СНЕСКЕД ВУ |
| STRUCTURAL ENGINEER'S STATEMENT prepared under my direct supervision <u>90% SUBMITTAL</u> NOT FOR CONSTRUCTION | SAND CREEK RESTORATION | | | STOCK POND 1 OULTET | 12 ×10 KCBC GENERAL LAYOUI | |
| | - | IEET | S | | | 24 |

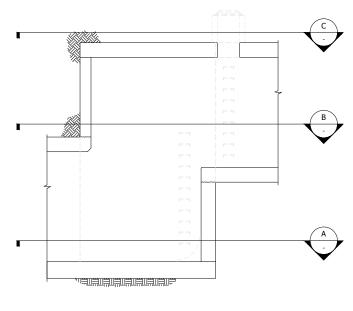


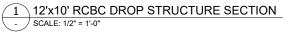


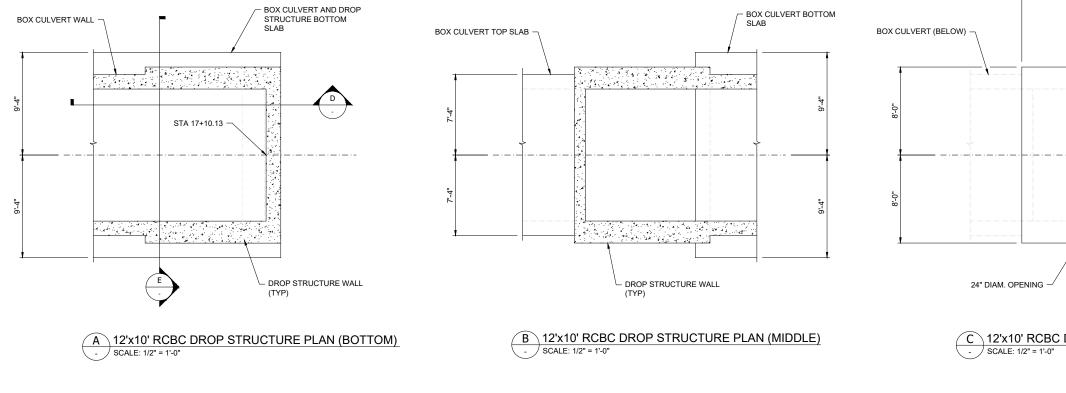
B TOE WALL REINFORCING SECTION



| | | THESE DRAWINGS ARE | APPROPRIATE REVIEWING | | PURPOSES DESIGNATED BY | |
|---|------------------------|---------------------|----------------------------------|---------------------------|------------------------------|---|
| | PREPARED FOR | SR LAND. LLC | 20 BOULDER CRESCENT ST. | COLORADO SPRINGS, CO 8090 | (719) 419-3024 | |
| 0. 2"CLR 1.4" 2"CLR | | San Engineering LLC | Civil and Structural Engineering |) | 1150 W. Littleton Blvd. #200 | Littleton, UU OUIZU 303.953.9014 www.sanengineeringllc.com |
| 10:0 | DATE | | | | | |
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| | No. REVISION | | | | | |
| | H-SCALE AS NOTED | V-SCALE AS NOTED | DATE 11/07/22 | ESIGNED BY KSP | DRAWN BY JJM | снескер ву ЈКН |
| STRUCTURAL ENGINEER'S STATEMENT prepared under my direct supervision <u>90% SUBMITTAL</u> NOT FOR CONSTRUCTION | SAND CRFFK RESTORATION | STERLING | 3 STOCK POND #1 OUTLET | 12' × 10' BOX CULVERT | TYPICAL REINFORCING SECTIONS | |
| JOHN MIGLIACCIO, P.E. DATE COLORADO NO. 34333 FOR AND ON BEHALF OF SAN ENGINEERING, LLC. | - | EET 3 NC | | 7 0 251 | F 2 88.0 | 24 04 |

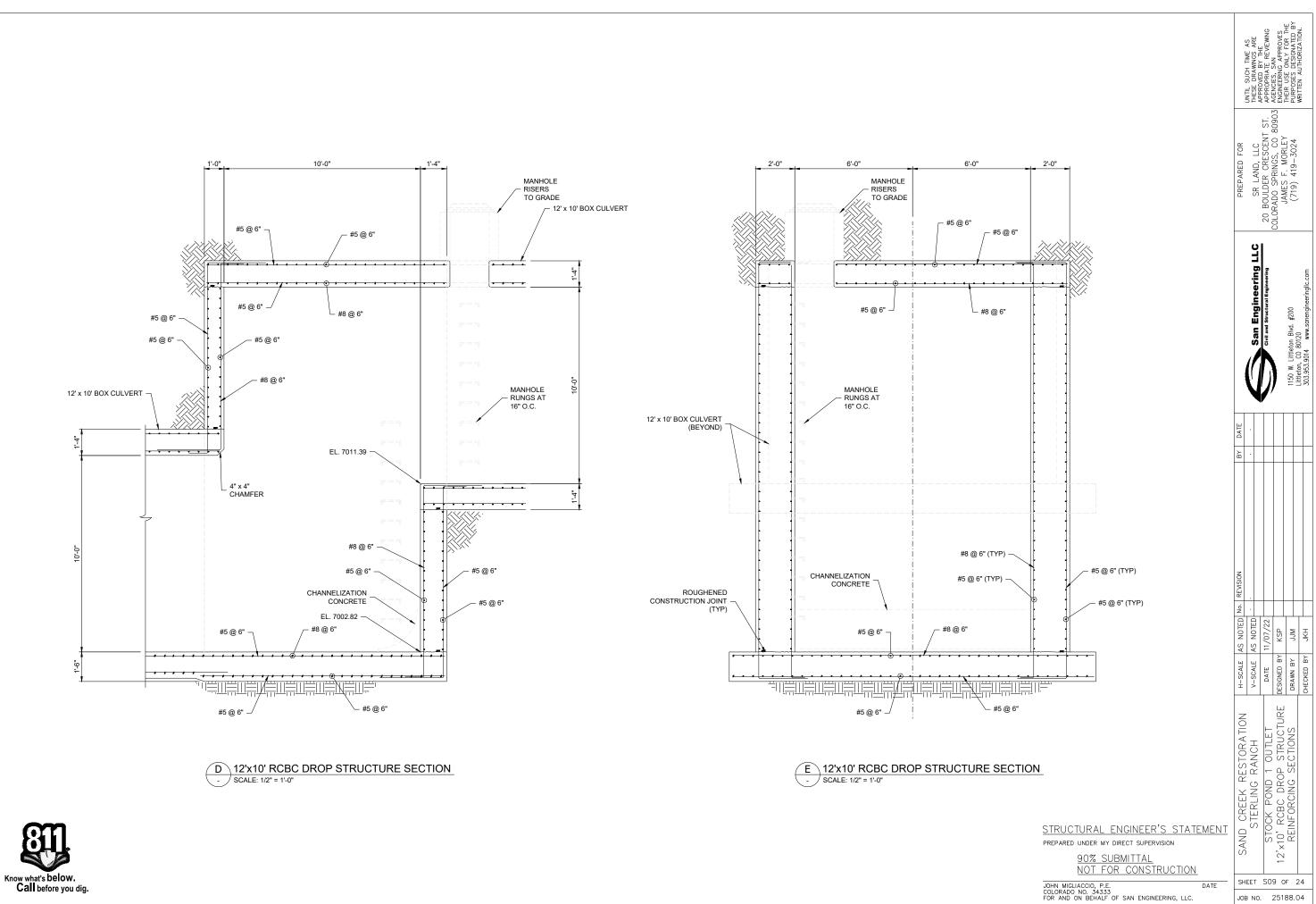


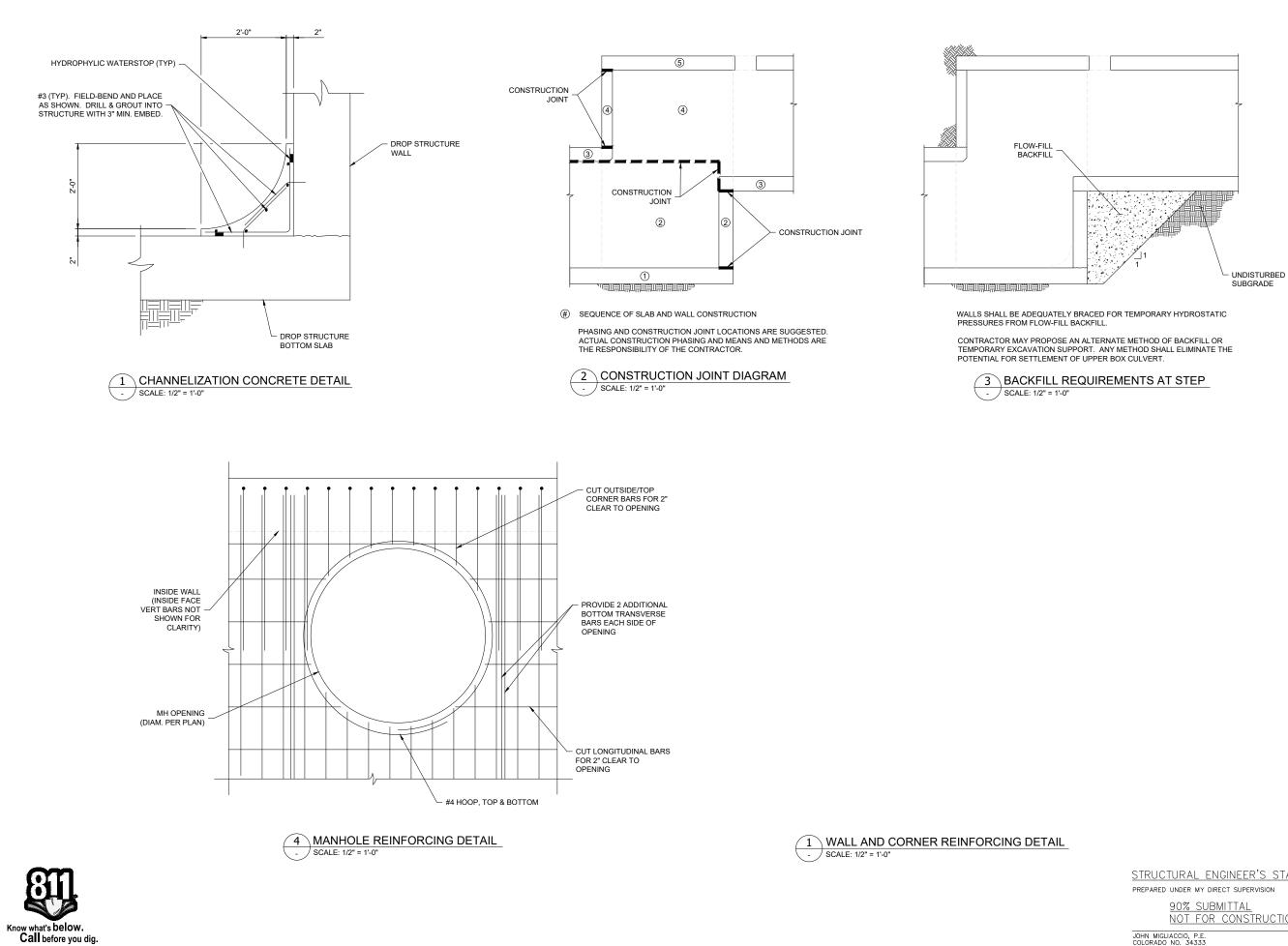






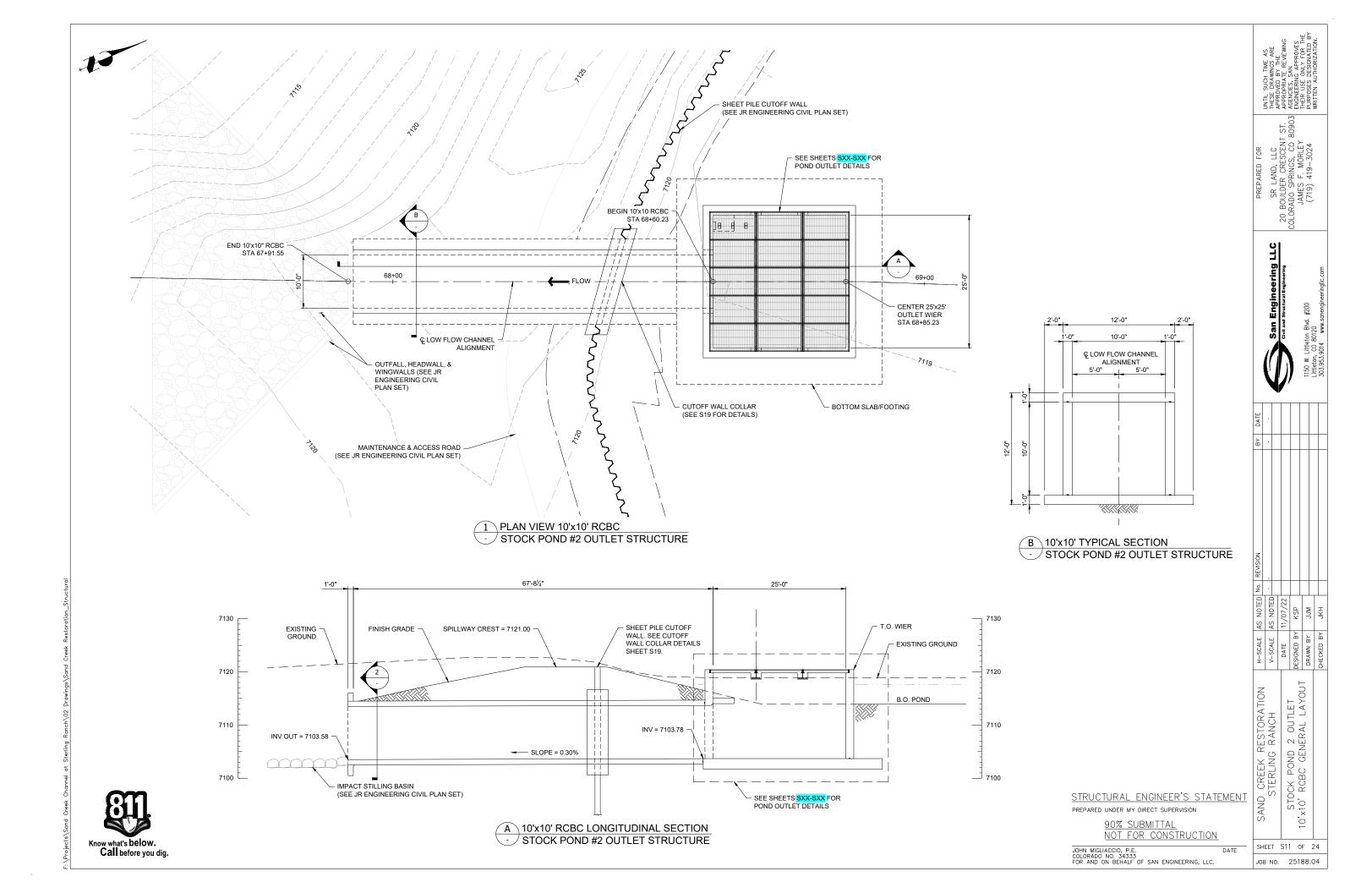
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|---|-------------------------------|---------------------|--|--|------------------------------|--|
| | PREPARED FOR | SR LAND. LLC | 20 BOULDER CRESCENT ST. | CULURADU SPRINGS, CU 80903 JAMES E MORIEY | (719) 419-3024 | |
| | | San Engineering LLC | Civil and Structural Engineering | | 1150 W. Littleton Blvd. #200 | 203.953.9014 www.sanengineeringllc.com |
| <u>11'-0"</u> | ш | Τ | • | | | |
| | BY DATE | <u> </u> | | | + | |
| DROP STRUCTURE TOP SLAB | H-SCALE AS NOTED No. REVISION | V-SCALE AS NOTED | DATE 11/07/22 | DESIGNED BY KSP | DRAWN BY JJM | CHECKED BY JKH |
| STRUCTURE PLAN (TOP) STRUCTURAL ENGINEER'S STATEMENT PREPARED UNDER MY DIRECT SUPERVISION <u>90% SUBMITTAL</u> NOT FOR CONSTRUCTION | SAND CREEK RESTORATION | STERLING RANCH | STOCK POND 1 OUTLET | 12'x10' RCBC DROP STRUCTURE | PLANS | |
| JOHN MIGLIACCO, P.E. DATE COLORADO NO. 34333 FOR AND ON BEHALF OF SAN ENGINEERING, LLC. | | EET | | 8 0 | | 24 |
| FOR AND ON BEHALF OF SAN ENGINEERING, LLC. | JOE | B NC |). : | 251 | 88.0 |)4 |

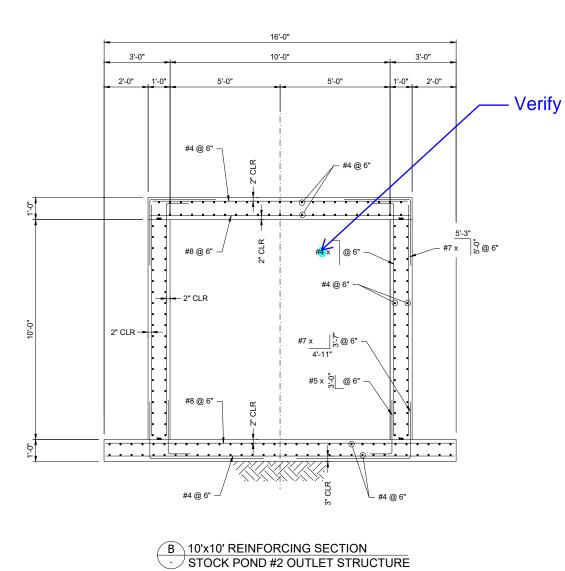


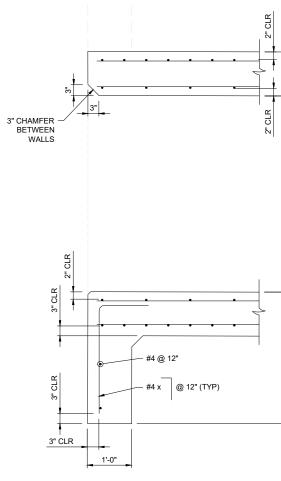


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|---|-------------------------------|---------------------|-------------------------|---|------------------------------|---|
| | PREPARED FOR | SR LAND, LLC | 20 BOULDER CRESCENT ST. | COLORADO SPRINGS, CO 80903 AGENCES, SAN IAMES E MORIEY | (719) 419–3024 | |
| | | San Engineering LLC | | | 1150 W. Littleton Blvd. #200 | utueton, co ou zu 303.953.9014 www.sanengineeringllc.com |
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| | H-SCALE AS | V-SCALE AS NOTED | DATE 11/07/22 | DESIGNED BY | DRAWN BY | снескер ву |
| Γ | SAND CREEK RESTORATION | STERLING RANCH | STOCK POND 1 OUTLET | 12'x10' RCBC DROP STRUCTURE | MISCELLANEOUS DETAILS | |
| _ | SH | EET 3 NO | |) 0 251; | F 2 88.0 | 24 |

| JOHN MIGLIACCIO, P.E. DATE CULORADO NO. 34333 FOR AND ON BEHALF OF SAN ENGINEERING, LLC. JOB NO. | STRUCTURAL ENGINEER'S STATEMENT PREPARED UNDER MY DIRECT SUPERVISION <u>90% SUBMITTAL</u> NOT FOR CONSTRUCTION | SAND CREEK STERLING | STOCK PONE |
|---|---|------------------------|------------|
| | | SHEET | S10 |
| | | JOB NO. | 2 |





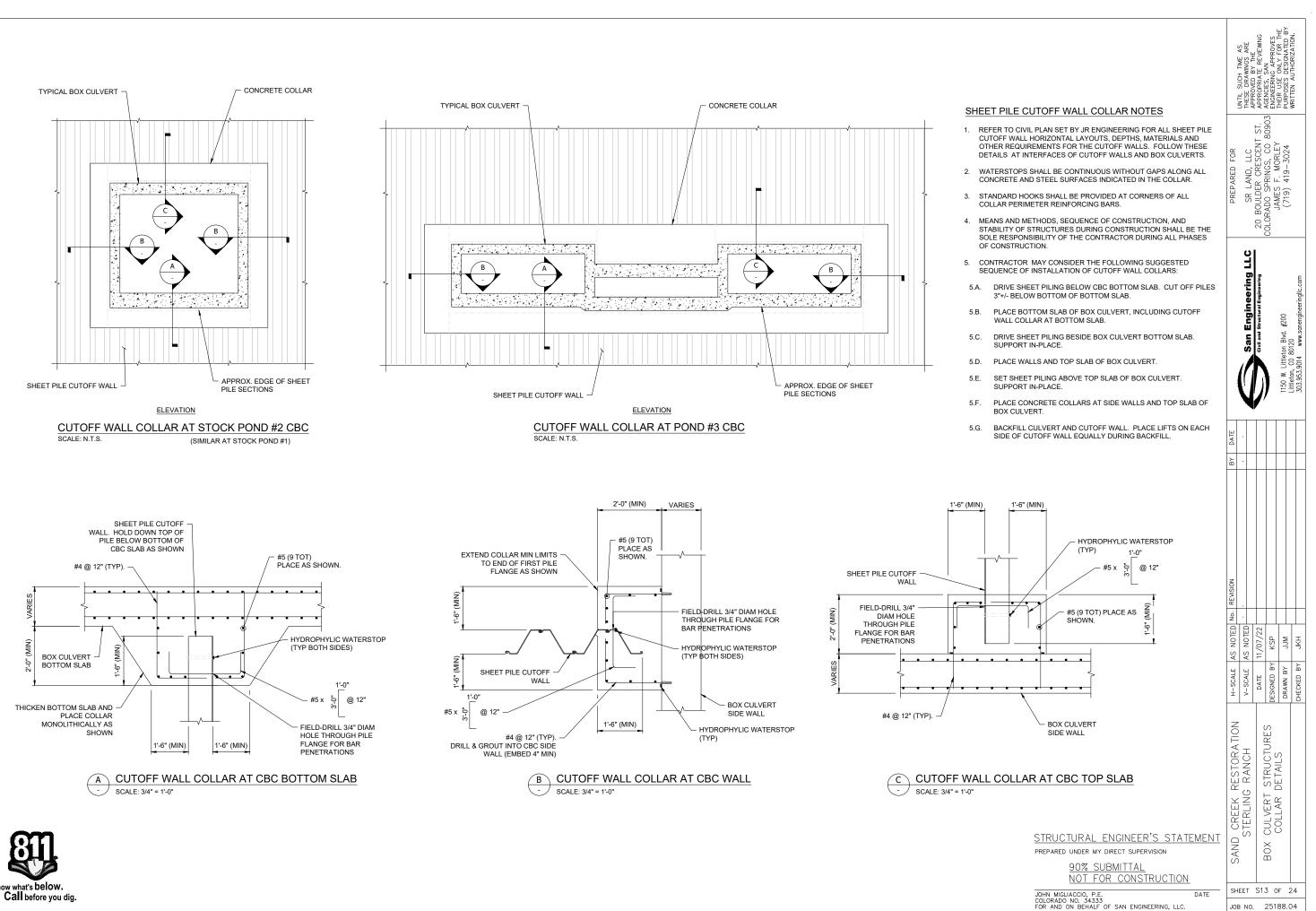


B TOE WALL REINFORCING SECTION

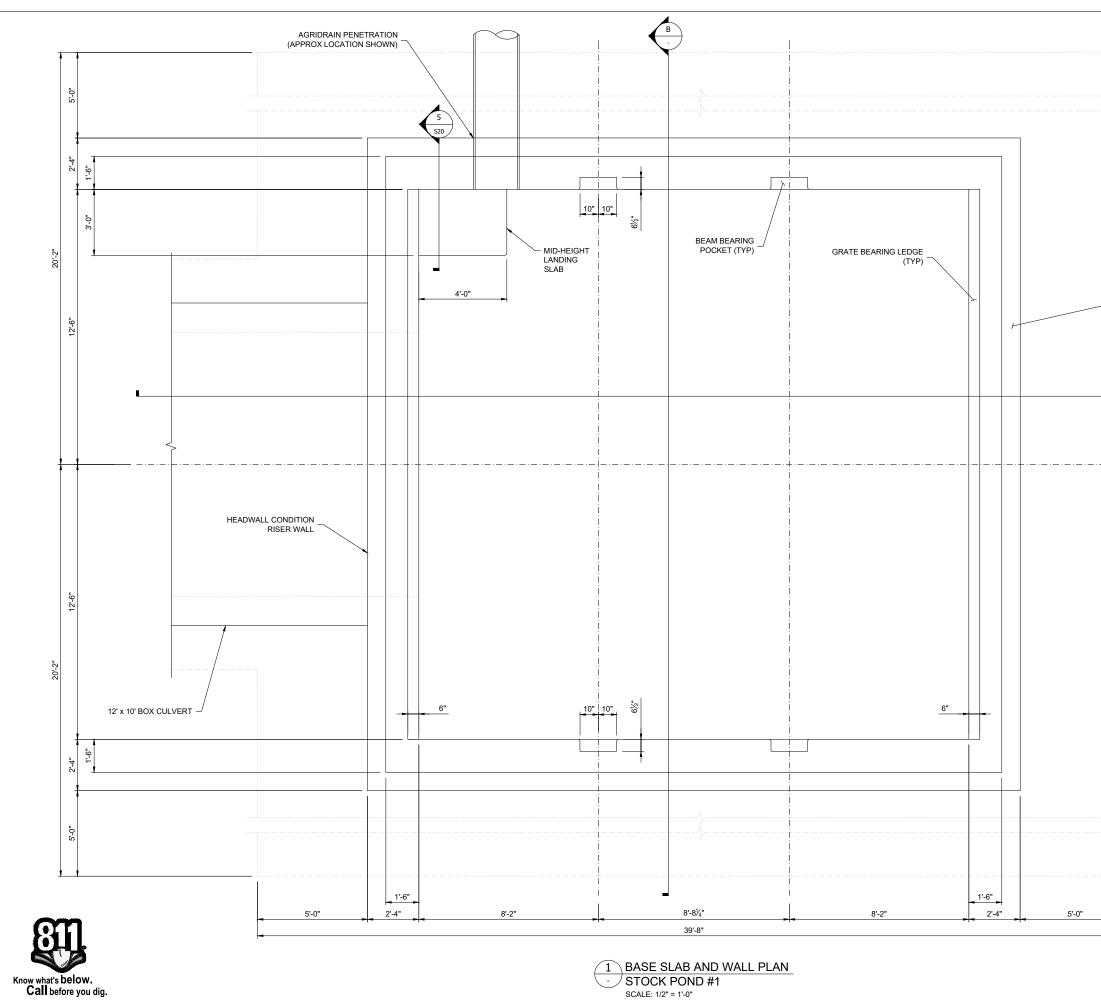


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|---|---|
| | PREPARED FOR SR LAND, LLC 20 BOULDER CRESCENT ST. COLORADO SPRINGS, CO 80903 JAMES F. MORLEY (719) 419–3024 |
| | San Engineering LLC Gvi and Structural Engineering 1150 W. Littleton Blvd. #200 Littleton, CO 8012.0 303.953.9014 www.sonengineeringlic.com |
| | BY DATE |
| | H-SCALE AS NOTED No. REVISION V-SCALE AS NOTED · · V-SCALE AS NOTED · · Date 11/07/22 · · DESIGNED BY KSP · DRAWN BY JJM · CHECKED BY JKH · |
| STRUCTURAL ENGINEER'S STATEMENT PREPARED UNDER MY DIRECT SUPERVISION <u>90% SUBMITTAL</u> NOT FOR CONSTRUCTION JOHN MIGLIACCIO, P.E. DATE COLORADO NO. 34333 | AND #2 OUTLET SAND FEEK RESTORATION STERLING RANCH POND #2 OUTLET 10' x 10' BOX CULVERT TYPICAL REINFORCING SECTIONS |

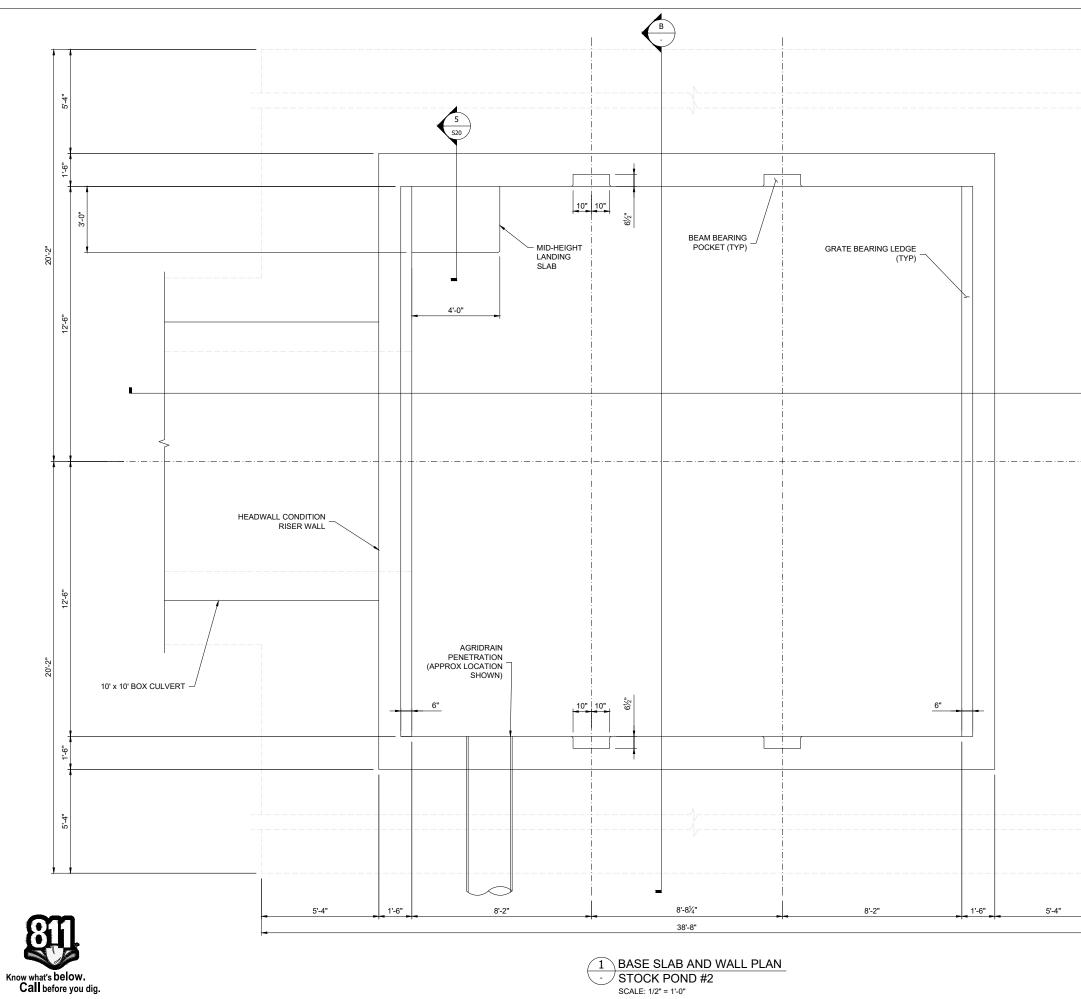




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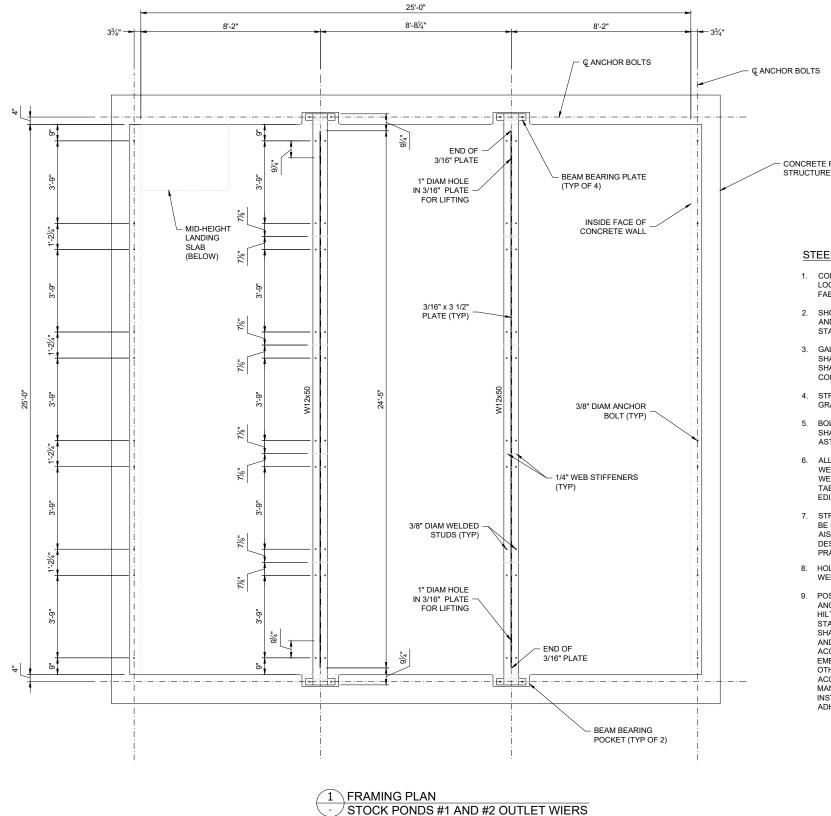
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| | PREPARED FOR SR LAND, LLC 20 BOULDER CRESCENT ST. COLORADO SPRINCS, CO 80903 JAMES F. MORLEY (719) 419–3024 |
| WALL THICKNESS STEP (TYP) | San Engineering LLC Gwl and Structural Engineering 1150 W. Littleton Blvd. #200 Littleton. co. 80120 1303:9014 mww.sonendineeringlic.com |
| | BY |
| BASE SLAB EXTENSION (TYP) | H-SCALE AS NOTED No. REVISION V-SCALE AS NOTED ··· DATE 11/07/22 DESIGNED BY KSP DRAWN BY JJM CHECKED BY JKH |
| STRUCTURAL ENGINEER'S STATEMENT PREPARED UNDER MY DIRECT SUPERVISION 90% SUBMITTAL NOT FOR CONSTRUCTION | SAND CREEK RESTORATION STERLING RANCH STOCK POND #1 OUTLET STRUCTURE BASE SLAB AND WALL PLAN |
| JOHN MIGLACCIO, P.E. DATE COLORADO NO. 34333 FOR AND ON BEHALF OF SAN ENGINEERING, LLC. | - SHEET S14 OF 24 JOB NO. 25188.04 |



s\Sand Creek Channel at Sterling Ranch\02 Drawings\Sand Creek Restoration_Str

rojects\Sand C

| | UNTL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENORES, SAN AGENORES, SAN HEIR USE ONLY FOR THE PURPOSES DESIGNATED BY | WRITTEN AUTHORIZATION. |
|--|--|---|
| | PREPARED FOR SR LAND, LLC 20 BOULDER CRESCENT ST. COLORADO SPRINGS, CO 80903 JAMES F. MORLEY (719) 419–3024 | |
| A | San Engineering LLC Gvii and Structural Engineering 1150 W. Littleton Blvd. #200 | Littleton, cU 80120 303.953.9014 www.sanengineeringllc.com |
| | BY DATE · | |
| BASE SLAB EXTENSION (TYP) | H-SCALE AS NOTED No. REVISION v-SCALE AS NOTED · · DATE 11/07/22 DESIGNED BY KSP DRAWN BY JJM | СНЕСКЕД ВҮ ЈКН |
| STRUCTURAL ENGINEER'S STATEMENT PREPARED UNDER MY DIRECT SUPERVISION <u>90% SUBMITTAL</u> NOT FOR CONSTRUCTION JOHN MIGLIACCIO, P.E. COLORADO NO. 34333 FOR AND ON BEHALF OF SAN ENGINEERING, LLC. | 221880 22100 2 | 24 |



SCALE: 1/2" = 1'-0"



CONCRETE POND RISER

STEEL FRAMING AND GRATE NOTES

1. CONTRACTOR SHALL VERIFY ALL CONCRETE DIMENSIONS, LOCATIONS, AND ELEVATIONS PRIOR TO START OF GRATE FABRICATION.

2. SHOP DRAWINGS FOR ALL STRUCTURAL STEEL FRAMING, GRATING, AND ATTACHMENTS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO START OF FABRICATION.

3. GALVANIZE STEEL UNLESS NOTED OTHERWISE. STEEL W SHAPES SHALL CONFORM TO ASTM A992, OR ASTM A-572 GRADE 50. L SHAPES (ANGLES), AND STRUCTURAL PLATES AND BARS, SHALL CONFORM TO ASTM A36.

4. STRUCTURAL TUBING MEMBERS SHALL CONFORM TO ASTM A500, GRADE B, AND PIPE ASTM A53, GRADE B.

5. BOLTS SHALL CONFORM TO ASTM 325, TYPE 1, HEAVY HEX. NUTS SHALL CONFORM TO ASTM A563. WASHERS SHALL CONFORM TO ASTM F436. FINISH SHALL BE HOT DIPPED GALVANIZED.

6. ALL WELDING SHALL BE DONE USING E7013 ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1. WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC "MANUAL OF STEEL CONSTRUCTION" 13TH EDITION

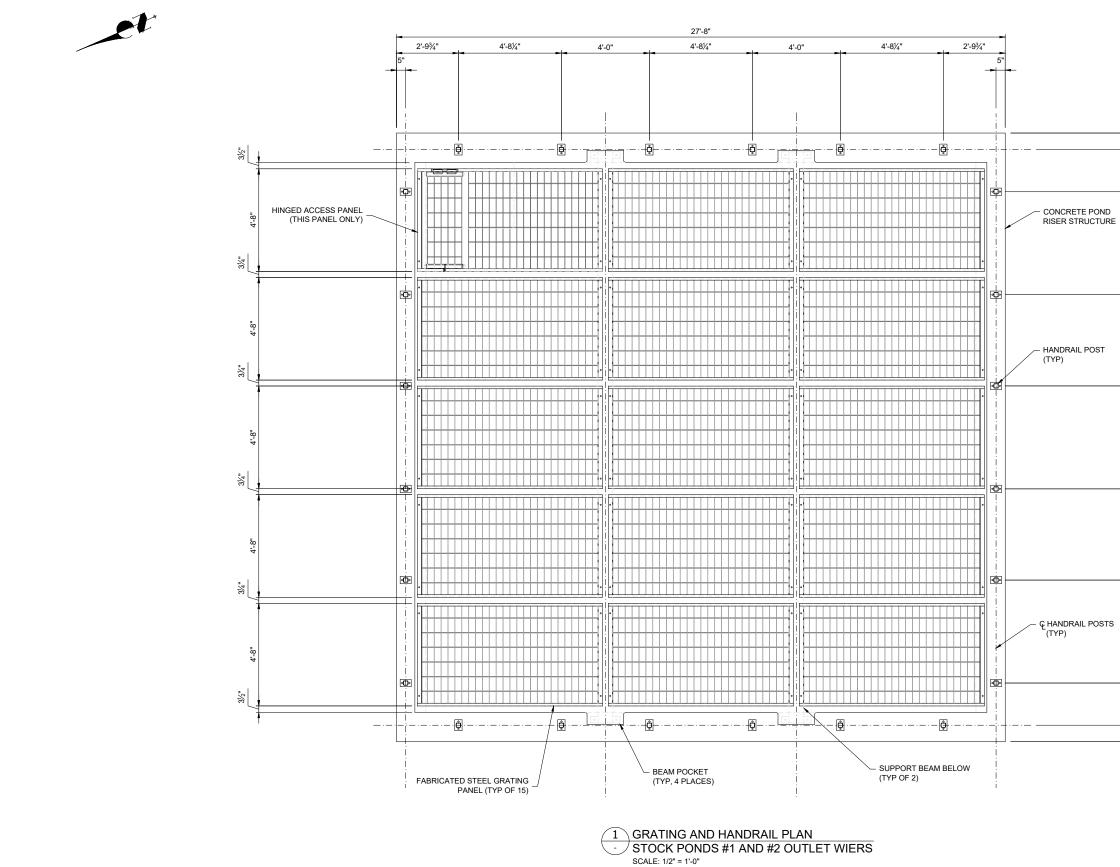
7. STRUCTURAL STEEL BEAMS, COLUMNS, AND CONNECTIONS SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH AISC MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN, NINTH EDITION (INCLUDING AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES).

8. HOLLOW STRUCTURAL STEEL TUBES SHALL BE FABRICATED WITH WEEP HOLES AT LOW ENDS FOR DRAINAGE.

POST-INSTALLED ANCHORS SHALL BE HILTI HIT-RE-500-SD ADHESIVE ANCHORS WITH HILTI HAS THREADED RODS AS MANUFACTURED BY HILTI NORTH AMERICA. ANCHORS IN EXTERIOR LOCATIONS SHALL BE STAINLESS STEEL HILTI HAS THREADED RODS. ADHESIVE ANCHORS SHALL BE FURNISHED AS A COMPLETE ASSEMBLY WITH ROD, NUTS, AND WASHER. EMBEDMENT OF ADHESIVE ANCHORS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION FOR MINIMUM EMBEDMENT FOR ROD DIAMETER SHOWN ON DRAWINGS, UNLESS OTHERWISE SPECIFIED. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. OBSERVE MANUFACTURER RECOMMENDATIONS WITH RESPECT TO INSTALLATION TEMPERATURES FOR CARTRIDGE INJECTION ADHESIVE ANCHORS

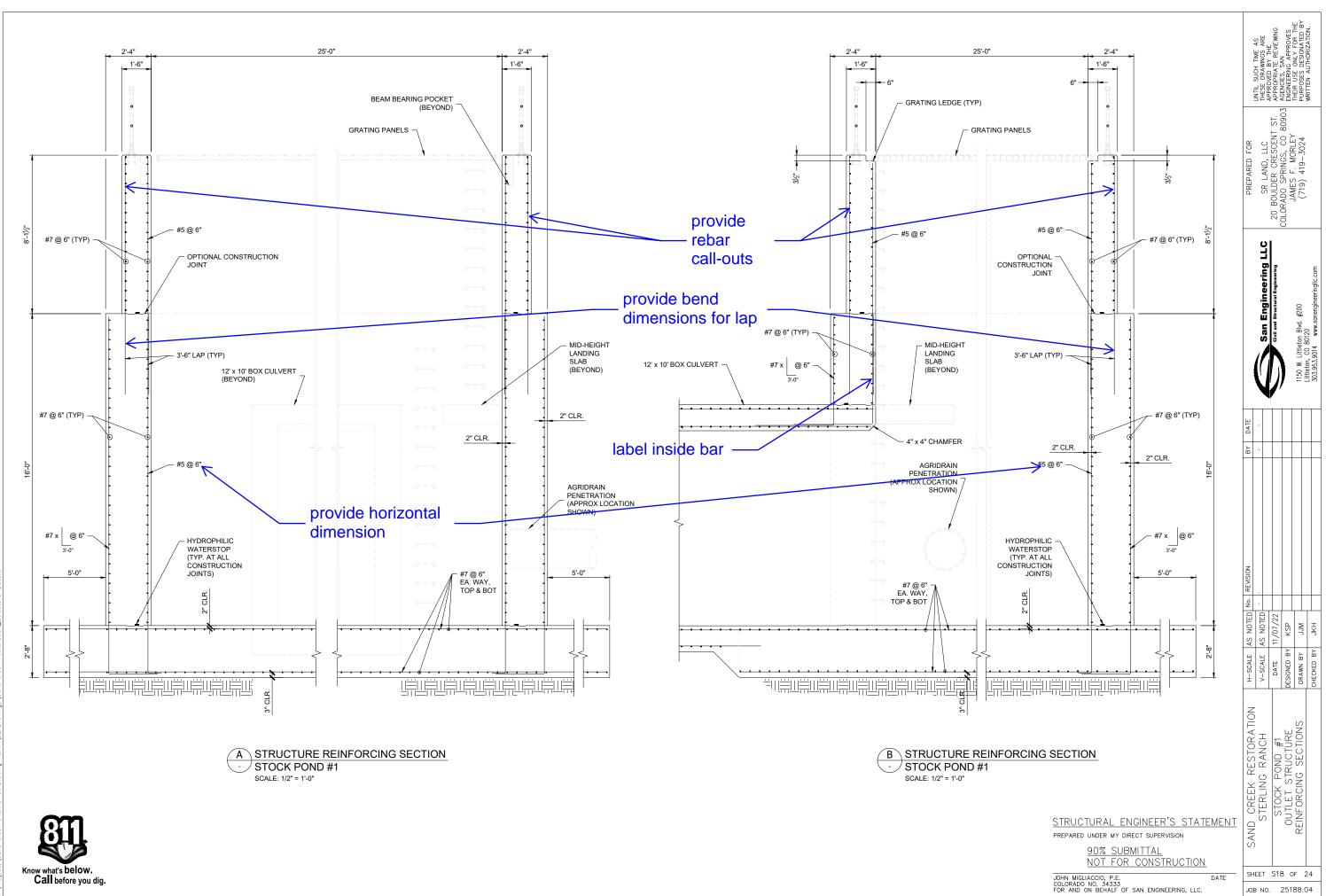
JOHN MIGLIACCIO, P.E. COLORADO NO. 34333 FOR AND ON BEHALF OF SAN ENGINEERING, LLC.

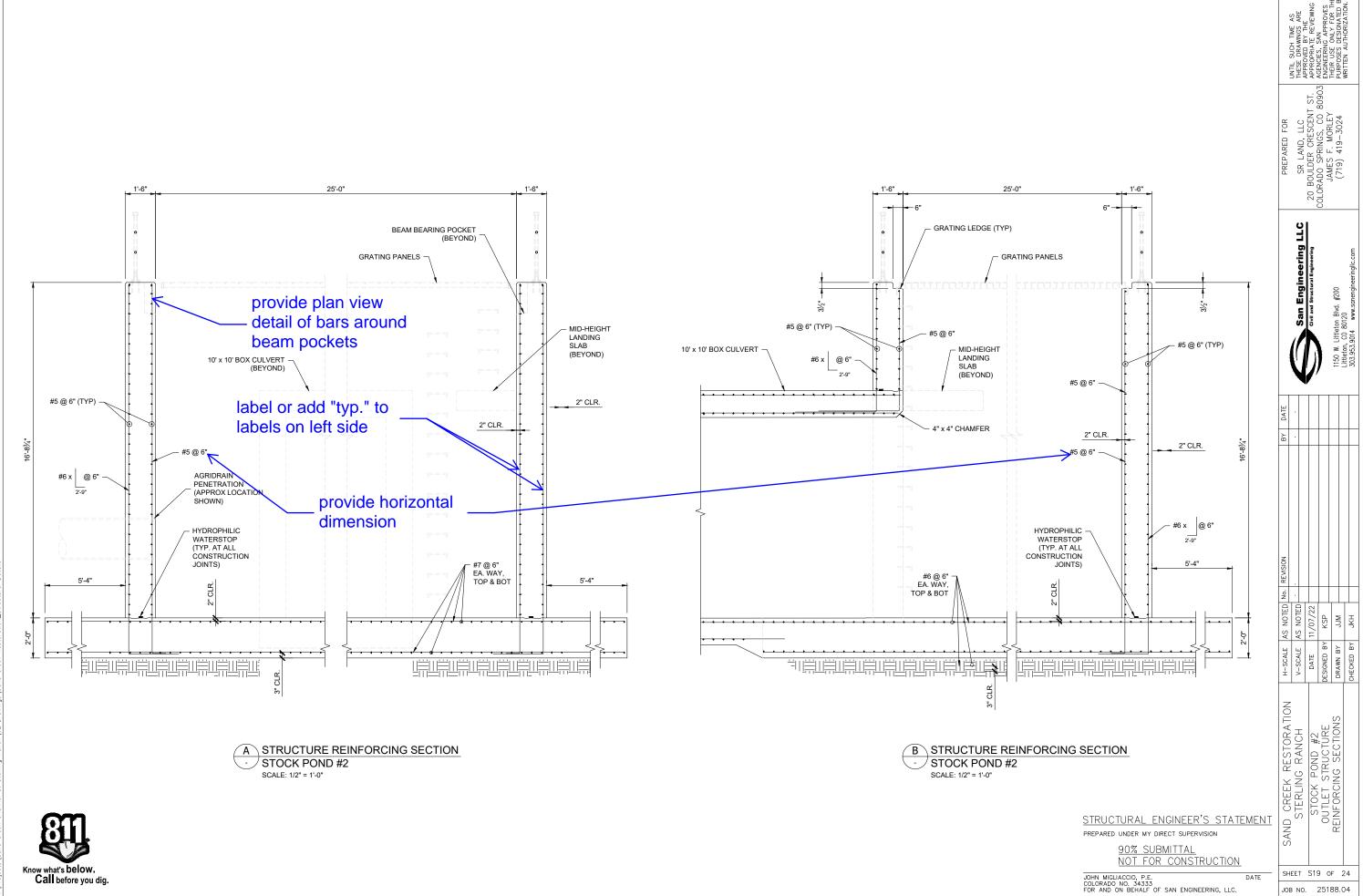
| | PREPARED FOR UNTL SUCH TIME AS SR LAND, LLC HESE RAWINS ARE 20 BOULDER CRESCENT ST. APROPRIATE REVIEWING COLORADO SPRINGS, CO 80903 AERNORES, SAN JAMES F. MORLEY HIPPROSE SESIONATED NF V(719) 419–3024 WRITEN AUTHORIZATION. | | | | WRITTEN AUTHORIZATION. | | |
|---|--|-----------------|---------------------|----------------------------------|------------------------|------------------------------|---|
| | | | | | | | |
| AND GRATE NOTES L VERIFY ALL CONCRETE DIMENSIONS, EVATIONS PRIOR TO START OF GRATE OR ALL STRUCTURAL STEEL FRAMING, GRATING, SHALL BE SUBMITTED FOR APPROVAL PRIOR TO TION. INLESS NOTED OTHERWISE. STEEL W SHAPES D ASTM A992, OR ASTM A-572 GRADE 50. L AND STRUCTURAL PLATES AND BARS, SHALL A36. | | | San Engineering LLC | Civil and Structural Engineering | | 1150 W. Littleton Blvd. #200 | Littleton, CU oULZU 303.953.9014 www.sanengineeringlic.com |
| IG MEMBERS SHALL CONFORM TO ASTM A500, ASTM A53, GRADE B. ORM TO ASTM 325, TYPE 1, HEAVY HEX. NUTS D ASTM A563. WASHERS SHALL CONFORM TO SHALL BE HOT DIPPED GALVANIZED. L BE DONE USING E7013 ELECTRODES AND INFORM TO AISC AND AWS D1.1. WHERE FILLET DT SHOWN, PROVIDE THE MINIMUM SIZE PER ISC "MANUAL OF STEEL CONSTRUCTION" 13TH | BY DATE | • | | | | | |
| L BEAMS, COLUMNS, AND CONNECTIONS SHALL ICATED, AND ERECTED IN ACCORDANCE WITH TEL CONSTRUCTION, ALLOWABLE STRESS ION (INCLUDING AISC CODE OF STANDARD EL BUILDINGS AND BRIDGES). IAL STEEL TUBES SHALL BE FABRICATED WITH W ENDS FOR DRAINAGE. ICHORS SHALL BE HILTI HIT-RE-500-SD ADHESIVE TI HAS THREADED RODS AS MANUFACTURED BY CA. ANCHORS IN EXTERIOR LOCATIONS SHALL BE ILTI HAS THREADED RODS. ADHESIVE ANCHORS ED AS A COMPLETE ASSEMBLY WITH ROD, NUTS, EDMENT OF ADHESIVE ANCHORS SHALL BE IN MANUFACTURER'S SPECIFICATION FOR MINIMUM OD DIAMETER SHOWN ON DRAWINGS, UNLESS IED. ANCHORS SHALL BE INSTRUCTIONS. OBSERVE COMMENDATIONS WITH RESPECT TO YERATURES FOR CARTRIDGE INJECTION | H-SCALE AS NOTED No. REVISION | COME AS NOTED . | 2 | DATE 11/07/22 | ESIGNED BY KSP | DRAWN BY JJM | CHECKED BY JKH |
| S. <u>STRUCTURAL ENGINEER'S STATEMENT</u> PREPARED UNDER MY DIRECT SUPERVISION <u>90% SUBMITTAL</u> <u>NOT FOR CONSTRUCTION</u> JOHN MIGLIACCIO, P.E. DATE | SAND CRFFK RESTORATION | | | | OUTLET STRUČTUREŠ | FRAMING PLAN | ано 24 |
| JOHN MIGLIACCIO, P.E. DATE COLORADO NO. 34333 FOR AND ON BEHALF OF SAN ENGINEERING. LLC. | JOB NO. 25188.04 | | | | | | |

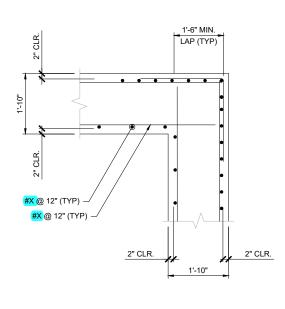




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|----------|---------------|---|--------------------------|--|--|--|------------------------------|------------------------|
| | | | | UNTIL SUCH TIME AS THESE DRAWINGS ARE | APPROVED BY THE APPROPRIATE REVIEWING | AGENCIES, SAN ENGINEERING APPROVES | PURPOSES DESIGNATED BY | WRITTEN AUTHORIZATION. |
| 50 | 2'-8" | | PREPARED FOR | SR LAND. LLC | 20 BOULDER CRESCENT ST. | COLORADO SPRINGS, CO 80903 IAMES E MODIEV | (719) 419-3024 | |
| | 4'-1¾" 4'-8¼" | | | San Engineering LLC | | <u> </u> | 1150 W. Littleton Blvd. #200 | |
| | 4'-8/4" | | DATE | ŝ | O, |) | 1150 W. Littleton | 303.953.9014 V |
| | 4'-1¾" | | BY | | | | | |
| i | 4'-8/4" | | NOTED No. REVISION | AS NOTED | 11/07/22 | KSP | MUL | JKH HXC |
| 5 | 2'-8" | | H-SCALE AS | V-SCALE AS | DATE 11 | DESIGNED BY | DRAWN BY | СНЕСКЕД ВҮ |
| | | STRUCTURAL ENGINEER'S STATEMENT prepared under my direct supervision <u>90% SUBMITTAL</u> NOT FOR CONSTRUCTION John Migliaccio, p.e. date | 9 SAND CREFK RESTORATION | \subseteq | STOCK PONDS #1 & | UTLET STRUCTU | GRATING PLAN | 24 |
| | | JOHN MIGLIACCIO, P.E. DATE COLORADO NO. 34333 FOR AND ON BEHALF OF SAN ENGINEERING, LLC. | JOB NO. 25188.04 | | | |)4 | |



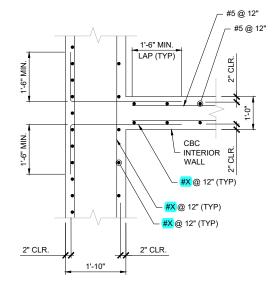




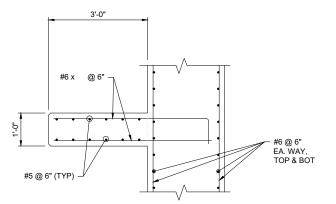








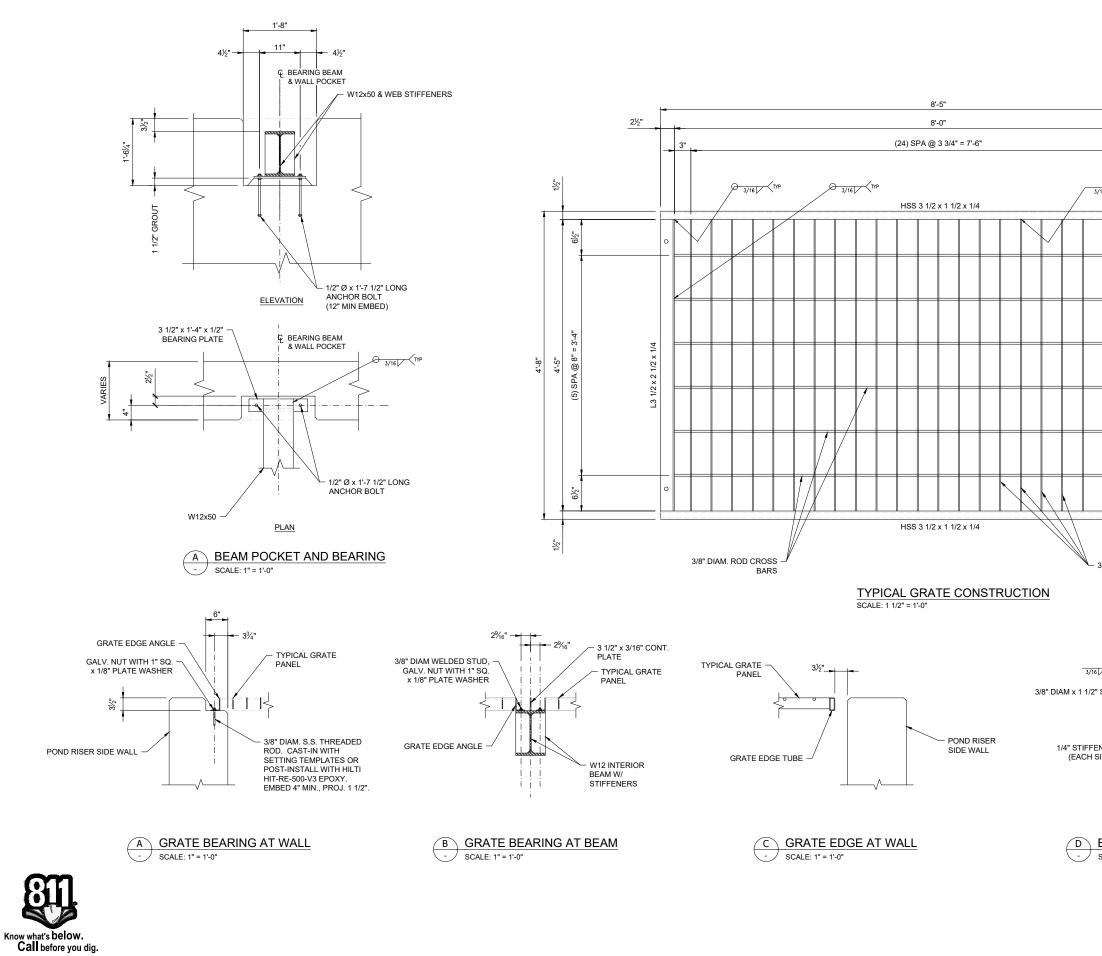




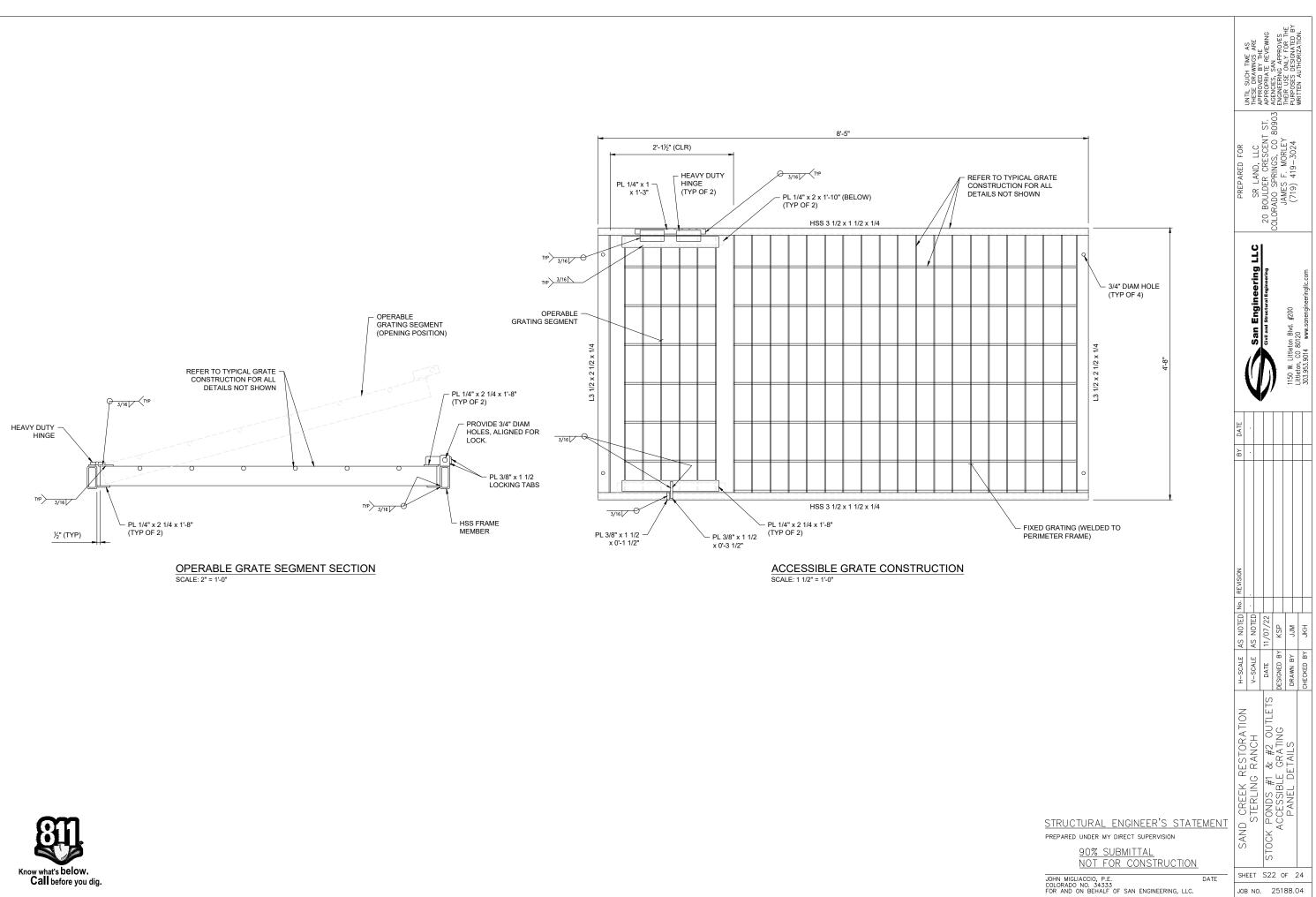




| | INTE SUCH TIME AS | THESE DRAWINGS ARE | APPROPRIATE REVIEWING | | | WRITTEN AUTHORIZATION. |
|---|--|------------------------|----------------------------------|-------|---------------------------|--|
| | PREPARED FOR SR LAND, LLC 20 BOULDER CRESCENT ST. A A COLORADO SPRINGS, CO 80903 A JAMES F. MORLEY (719) 419–3024 P | | | | | |
| Γ <u>AIL</u> | | San Engineering LLC | Civil and Structural Engineering | | 0 W. Littleton Blvd. #200 | Jutueton, ou ou zu 303.953.9014 www.sanengineeringllc.com |
| | BY DATE | | | | | |
| | AS NOTED No. REVISION | AS NOTED · · | 11/07/22 | Y KSP | WLL | Y JKH |
| | SAND CREEK RESTORATION H-SCALE | STERLING RANCH V-SCALE | PONDS #1 & #2 DATE | URE | ANEOUS DETAILS DRAWN BY | CHECKED BY |
| STRUCTURAL ENGINEER'S STATEMENT PREPARED UNDER MY DIRECT SUPERVISION <u>90% SUBMITTAL</u> <u>NOT FOR CONSTRUCTION</u> JOHN MIGLIACCIO, P.E. COLORADO NO. 34333 FOR AND ON BEHALF OF SAN ENGINEERING, LLC. | SHE | | STOCK STOCK |) O | MISCELL | 24 |



| | | | | | | _ |
|---|-------------------------------|----------------------|--|--|------------------------------|------------------------|
| | INTER AS | THESE DRAWINGS ARE | APPROPENDER INE APPROPRIATE REVIEWING | AGENCIES, SAN ENGINEERING APPROVES | PURPOSES DESIGNATED BY | WRITTEN AUTHORIZATION. |
| 2½" 2½" | PREPARED FOR | | 20 BOULDER CRESCENT ST. | COLORADO SPRINGS, CO 80903 JAMES E MORIEY | (719) 419-3024 | |
| 3/4" DIAM HOLE (TYP OF 4) | | San Engineering LLC | | COL | | neeringllc.com |
| L3 1/2 x 2 1/2 x 1/4 | щ | ŝ | GW |) | 1150 W. Littleton Blvd. #200 | 303.953.9014 w |
| | BY DATE | · · | | | | |
| 3" x 3 /16" BEARING BARS 2 ⁹ / ₁₆ " 3 1/2" x 3/16" CONT. 3/16 1012 1/2" STUD, (TYP) 1/16 70P | H-SCALE AS NOTED No. REVISION | V-SCALE AS NOTED · · | DATE 11/07/22 | DESIGNED BY KSP | DRAWN BY JJM | CHECKED BY JKH |
| FFENER W12x50 BEAM CONSTRUCTION SCALE: 1" = 1'-0" STRUCTURAL ENGINEER'S STATEMENT PREPARED UNDER MY DIRECT SUPERVISION <u>90% SUBMITTAL</u> | STORATION | STERLING RANCH | 5 | TRUCTURE GRATING & | MISCELLANEOUS STEEL DETAILS | |
| NOT FOR CONSTRUCTION JOHN MIGLIACCIO, P.E. DATE COLORADO NO. 34333 FOR AND ON BEHALF OF SAN ENGINEERING, LLC. | SHE | EET | S2 | | | 24 04 |

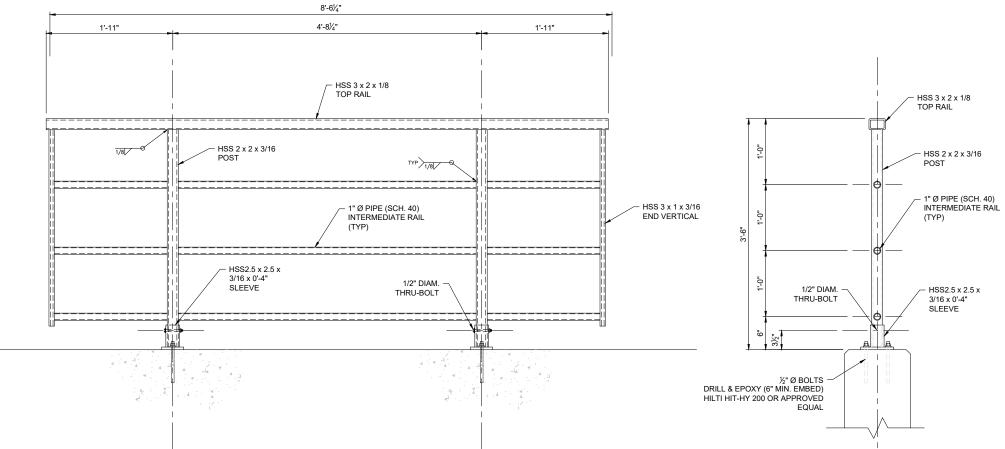








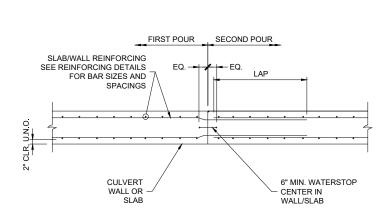




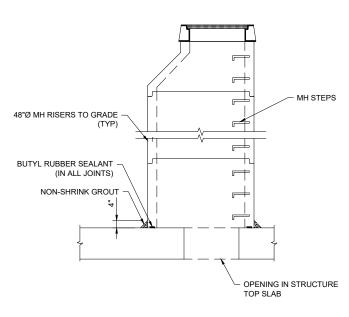
1. ALL 2. ALL P 3. ALL O

| HANDRAIL NOTES ALL TUBES SHALL BE ASTM A-500 GRADE B. ALL POSTS AND BASE PLATES SHALL BE ASTM A-572 GRADE 50. ALL OTHER STEEL SHALL BE ASTM A-36 UNLESS OTHERWISE NOTED. THE ABOVE MATERIAL AND ALL MISCELLANEOUS BOLTS, NUTS, AND WASHERS SHALL BE HOT-DIPPED GALVANIZED AND DUPLEX-COATED BLACK WITH AN EXTERIOR COATING SYSTEM COMPATIBLE WITH GALVANIZED MATERIAL. A SAMPLE SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL PRIOR TO FABRICATION. CAST-IN ANCHOR BOLTS, IF UTILIZED, SHALL BE HOT-DIPPED GALVANIZED. POST-INSTALLED ANCHORS, SHALL BE AN APPROVED PRODUCT, INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. POST-INSTALLED ANCHORS SHALL BE STAINLESS STEEL TUBES AND OTHER HORIZONTAL MEMBERS SHALL BE SHOP BENT OR FABRICATED TO FIT HORIZONTAL CURVES. | SS 202 |
|---|---|
| 8. VERTICAL SLOPES AND GRADES OF WINGWALLS AND GROUND NOT SHOWN FOR SIMPLICITY. POSTS SHALL BE VERTICALLY PLUMB. | 61 |
| HANDRAILS INSTALLED IN SEGMENTS SHALL BE PROVIDED WITH SPLICE JOINTS GROUND SMOOTH, OR ARRANGED SUCH THAT THE GAPS BETWEEN HANDRAIL SEGMENTS ARE A MAXIMUM OF 3 INCHES. JOINT AND GAP DETAIL SHALL BE CLEARLY SHOWN ON SHOP DRAWINGS ALL WELDS SHALL BE GROUND SMOOTH. PRIOR TO FABRICATION, SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. | o San Engineering LL Gvit and structural Engineering I150 W. Littleton Blvd. #200 Littleton. co 80120 03355.9014 www.sonengineeringllc.com |
| 1/2 x 4" x 6" PL HSS 2 x 2 x 3/16 POST HSS2.5 x 2.5 x 3/16 x 0'-4" SLEEVE %"Ø DRILLED HOLE | BY DATE |
| BASE PLATE DETAIL | REVISION |
| | о <mark>х</mark> . |
| | s NOTED s NOTED /07/22 KSP JJM |
| | AS AS AS |
| | H-SCALE V-SCALE DATE DATE DRAWN BY CHECKED B |
| STRUCTURAL ENGINEER'S STATEMEN prepared under my direct supervision <u>90% SUBMITTAL</u> NOT FOR CONSTRUCTION | IA SAND CREEK RESTORATION STERLING RANCH STOCK PONDS #1 & #2 OUTLET STRUCTURES HAND RAIL DETAILS |
| JOHN MIGLIACCIO, P.F. DATE | - SHEET S23 OF 24 |
| COLORADO NO. 34333 FOR AND ON BEHALF OF SAN ENGINEERING, LLC. | JOB NO. 25188.04 |

SUBGRADE REQUIREMENTS



TYPICAL BOX CULVERT CONSTRUCTION JOINT



TYPICAL MH RISER DETAILS



BOX CULVERT BACKFILL REQUIREMENTS



1. EXPOSED SUBGRADE FOR ALL FOOTINGS AND BOTTOM SLABS SHALL BE OBSERVED BY THE GEOTECHNICAL ENGINEER UPON EXCAVATION.

2. FOOTINGS AND BOTTOM SLABS SHALL BE UNDERLAIN BY FIRM, UNDISTURBED NATURAL SOILS, OR STRUCTURAL FILL EXTENDING TO UNDISTURBED NATURAL SOILS. STRUCTURAL FILL SHOULD MEET THE REQUIREMENTS IN THE GEOTECHNICAL REPORT AND SHOULD EXTEND DOWN FROM THE EDGES OF FOOTINGS AT A 1 TO 1 VERTICAL PROJECTION. EXISTING FILL, SOFT OR LOOSE SOILS, OR OTHER DELETERIOUS MATERIALS ENCOUNTERED AT THE BASE OF THE EXCAVATION SHOULD BE REMOVED AND REPLACED WITH STRUCTURAL FILL.

3. UNDISTURBED SUBGRADE, ONLY IF DEEMED ACCEPTABLE BY GEOTECHNICAL ENGINEER MAY BE UTILIZED FOR PLACEMENT OF SLABS AND FOOTINGS.

4. REFER ALSO TO GEOTECHNICAL REPORT NO. DN49,705-125-R1 BY CTL / THOMPSON, DATED JANUARY 31, 2018, AND ANY ADDENDA THERETO, WHICH SHALL BE CONSIDERED A PART OF THE CONSTRUCTION DOCUMENTS, FOR ADDITIONAL EARTHWORK REQUIREMENTS.

5. CONTRACTOR IS ADVISED THAT DEWATERING MAY BE REQUIRED.

CONCRETE JOINT AND WATERSTOP NOTES

1. CONSTRUCTION JOINTS SHOWN ARE TYPICAL OF ALL LOCATIONS UNLESS NOTED OTHERWISE. WATERSTOPS AT PRECAST CONSTRUCTION INTERFACES ARE DETAILED SEPARATELY IN THESE PLANS.

2. WATERSTOPS SHALL BE PVC OR RUBBER END-BELL OR FLAT-STRIP TYPE. PRODUCT DATA FOR PROPOSED WATERSTOP SYSTEMS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION.

3. WATERSTOPS SHALL BE CONTINUOUS AROUND ALL CORNERS.

4. CONSTRUCTION JOINTS ARE RECOMMENDED TO BE LOCATED AT 80'-0" ON-CENTER MAXIMUM. ALL JOINT LOCATIONS SHALL BE APPROVED BY ENGINEER, OWNER AND CONSTRUCTION MANAGER PRIOR TO CONCRETE CONSTRUCTION.

5. ALL LONGITUDINAL AND HORIZONTAL REINFORCING SHALL BE CONTINUOUS THROUGH JOINTS UNLESS NOTED OTHERWISE.

6. ALL CONSTRUCTION JOINTS SHALL BE ROUGH AND THOROUGHLY CLEANED FOR BOND.

| | | UNTIL SUCH TIME AS THESE DRAWINGS ARE | APPROPRIATE REVIEWING | 13 AGENCIES, SAN ENGINEERING APPROVES | PURPOSES DESIGNATED BY | WRITTEN AUTHORIZATION. | | | | | |
|----|---------------------------------------|--|----------------------------------|--|------------------------------|---|--|--|--|--|--|
| | PREPARED FOR | SR LAND, LLC | 20 BOULDER CRESCENT ST. | ZU BUULDER UKESUENI SI. APPRORMERT EKURWIG COLORADO SPRINGS, CO 80903 ENGINEERING APPROVES JAMES F. MORLEY THEIR US DO NUT FOR THE (719) 419–3024 PURPOSES DESIGNATED BY WRITTEN AUTHORIZATION. | | | | | | | |
| | · · · · · · · · · · · · · · · · · · · | San Engineering LLC | Civil and Structural Engineering | | 1150 W. Littleton Blvd. #200 | Littleton, CU OULZO 303.953.9014 www.sanengineeringllc.com | | | | | |
| | DATE | | | | | | | | | | |
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| | H-SCALE AS NOTED No. REVISION | | | | | | | | | | |
| | AS NOTED | V-SCALE AS NOTED | DATE 11/07/22 | KSP | MUL | HXL | | | | | |
| | H-SCALE | V-SCALE | DATE | DESIGNED BY | DRAWN BY | СНЕСКЕД ВҮ | | | | | |
| ΝΤ | SAND CRFFK RESTORATION | STERLING RANCH | | MISSEL ANESTIS DETAILS | INISCELLAINECOS DE LAILS | | | | | | |
| | SH | EET 3 NO | S2 | | F 2 88.0 | 24 | | | | | |

| STRUCTURAL ENGINEER'S STATE | EMENT |
|---|-------|
| PREPARED UNDER MY DIRECT SUPERVISION | |
| 90% SUBMITTAL | |
| NOT FOR CONSTRUCTION | |
| JOHN MIGLIACCIO, P.E. COLORADO NO. 34333 FOR AND ON BEHALF OF SAN ENGINEERING, LLC. | DATE |