



GENERAL CONSTRUCTION NOTES:

- 1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH EL PASO COUNTY SPECIFICATIONS, UNLESS NOTED OTHERWISE.
2. IT IS SUGGESTED THAT THE CONTRACTOR INITIATE A REQUEST TO MOUNTAIN VIEW ELECTRIC ASSOCIATION FOR ANY CONSTRUCTION RELATED TEMPORARY ELECTRICAL POWER SOURCES AS SOON AS POSSIBLE. IN SOME INSTANCES UP TO 30 DAYS MAY BE REQUIRED TO PROVIDE THE SOURCE.
3. THE CONTRACTOR IS RESPONSIBLE FOR THE RE-ESTABLISHMENT OF ALL SURVEY MONUMENTS DISTURBED WITHIN THE PROJECT LIMITS.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING HIS OWN ESTIMATE OF EARTHWORK QUANTITIES.
5. EXISTING DRAINAGE STRUCTURES TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILT AND DEBRIS.
6. IF ANY EXISTING STRUCTURES TO REMAIN ARE DAMAGED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE THE EXISTING STRUCTURES AS NECESSARY TO RETURN THEM TO EXISTING CONDITIONS OR BETTER.
7. CONTRACTOR SHALL ADJUST AND/OR REMOVE AND REPLACE EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.
8. CONSTRUCTION SHALL COMPLY WITH ALL APPLICABLE GOVERNING CODES AND BE CONSTRUCTED TO SAME.

GENERAL GRADING NOTES:

- 1. THE SITE SHALL BE STRIPPED A MINIMUM OF 0.5' BELOW EXISTING GRADE AND STOCKPILED IN CONFORMANCE WITH THE SWMP MANAGEMENT DIRECTION.
2. MAXIMUM CUT/FILL SLOPES SHALL NOT EXCEED 3:1, UNLESS OTHERWISE NOTED. ALL SLOPES MUST BE PROTECTED FROM EROSION.
3. IF DURING THE OVERLOT GRADING PROCESS, CONDITIONS ARE ENCOUNTERED WHICH COULD INDICATE AN UNIDENTIFIED SITUATION IS PRESENT, THE SOILS ENGINEER SHALL BE CONTACTED FOR RECOMMENDATIONS.
4. THE CONTRACTOR SHALL PROTECT ALL WORK AREAS AND FACILITIES FROM FLOODING AT ALL TIMES. AREAS AND FACILITIES SUBJECTED TO FLOODING, REGARDLESS OF THE SOURCE OF WATER, SHALL BE PROMPTLY DEWATERED AND RESTORED.
5. THE CONTRACTOR IS RESPONSIBLE FOR PREVENTING AND CONTROLLING EROSION DURING CONSTRUCTION ACTIVITIES AT ALL TIMES DURING GRADING AND CONSTRUCTION.
6. SPOT ELEVATIONS SHALL TAKE PRECEDENCE OVER CONTOURS AND SLOPES SHOWN. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE SPOT ELEVATIONS THAT DO NOT APPEAR TO BE CONSISTENT WITH THE CONTOURS AND SLOPES.
7. BENCHMARK VERIFICATION: CONTRACTOR SHALL USE BENCHMARKS AND DATUMS SHOWN HEREON TO SET PROJECT BENCHMARK(S), BY RUNNING A LEVEL LOOP BETWEEN AT LEAST TWO BENCHMARK, AND SHALL PROVIDE SURVEY NOTES OF SUCH TO PROJECT ENGINEER PRIOR TO COMMENCING CONSTRUCTION.
8. SPOT ELEVATIONS REPRESENT FLOW LINE OR FINISH GRADE UNLESS OTHERWISE NOTED.
9. EXISTING GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
10. PROPOSED GRADE CONTOUR INTERVALS SHOWN AT 1 FOOT INTERVALS.
11. LOCATION OF SOILS STOCKPILES, DESIGNATED FOR TOPSOIL AND SUBSOIL STORAGE AREAS, WILL BE DETERMINED IN THE FIELD AT THE START OF CONSTRUCTION ACTIVITY AND INDICATED ON THE PLAN BY THE CONTRACTOR WHEN REQUIRED.
12. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONSTRUCT THE POND IN A MANNER WHICH COMPLIES WITH THE GEOTECHNICAL RECOMMENDATIONS FOR THE SITE AND/OR DETENTION FACILITIES

PROJECT DATA

HAY CREEK VALLEY
REPORT CONTAINING PCM DESIGN CALCULATIONS: HAY CREEK VALLEY FINAL DRAINAGE REPORT (PENDING APPROVAL)
PARCEL NUMBERS: TAX SCHEDULE NUMBERS 7100000269, 7100000268, 7100000267, 7100000270, 7133000001, 7133007014
GEC/STORMWATER QC PLAN: HAY CREEK VALLEY GRADING & EROSION CONTROL PLANS
FLOODPLAIN: THERE ARE PORTIONS OF THE SITE THAT ARE LOCATED WITHIN A REGULATORY FLOODPLAIN ZONE (FIRM 08041C0267G DECEMBER 7, 2018)
FUNCTIONAL MAINTENANCE OF PCM: HAY CREEK VALLEY HOMEOWNER'S ASSOCIATION
AESTHETIC MAINTENANCE OF PCM: HAY CREEK VALLEY HOMEOWNER'S ASSOCIATION
DETENTION POND
WQCV WATER SURFACE ELEVATION: 6867.60
EURV WATER SURFACE ELEVATION: 6868.45
100-YR WATER SURFACE ELEVATION: 6870.84

OPINION OF PROBABLE PCM IMPROVEMENT COSTS

Table with 3 columns: Item, Description, Cost. Includes items like DETENTION POND GRADING (\$35,000.00), FOREBAY (\$40,000.00), OUTLET STRUCTURE (\$40,000.00), TRICKLE CHANNEL (\$77,500.00), EMERGENCY SPILLWAY (\$5,000.00), STILLING BASIN (\$30,000.00), 10% CONTINGENCY (\$22,750.00), and a TOTAL of \$250,250.00.

MATRIX DESIGN GROUP, INC. CANNOT AND DOES NOT GUARANTEE THAT THE CONSTRUCTION COSTS WILL NOT VARY FROM THESE OPINIONS OF PROBABLE COSTS. THESE OPINIONS REPRESENT OUR BEST JUDGEMENT AS A DESIGN PROFESSIONAL, FAMILIAR WITH THE CONSTRUCTION INDUSTRY AND THIS DEVELOPMENT.

NRCS SOIL SURVEY FOR EL PASO COUNTY

Table with 3 columns: SOIL ID NO., SOIL TYPE, HYDROLOGIC CLASSIFICATION. Includes entries for 38 (JARRE-TECOLOTE COMPLEX), 71 (PRING COARSE SANDY LOAM), and 93 (TOMAH-CROWFOOT COMPLEX).

ABBREVIATIONS

Table listing various abbreviations and their full names, such as APPROX (APPROXIMATE or APPROXIMATELY), B/C (BACK OF CURB), BTM (BOTTOM), CDOT (COLORADO DEPARTMENT OF TRANSPORTATION), CFS (CUBIC FEET PER SECOND), etc.

LEGEND

Table showing symbols for PROPERTY LINE, EXISTING STORM DRAIN, PROPOSED STORM DRAIN, MATCHLINE, and PROPOSED RIGHT OF WAY.

REFERENCE DRAWINGS table, COMPUTER FILE MANAGEMENT section with file names and dates, and SHEET KEY diagram showing the location of this sheet in the overall project layout.

BENCHMARK section with project elevation data and BASIS OF BEARING section with detailed survey information and coordinates.

PREPARED BY: Matrix Excellence by Design logo and contact information.

SEAL section with a 'PRELIMINARY' stamp and text: 'THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE'.

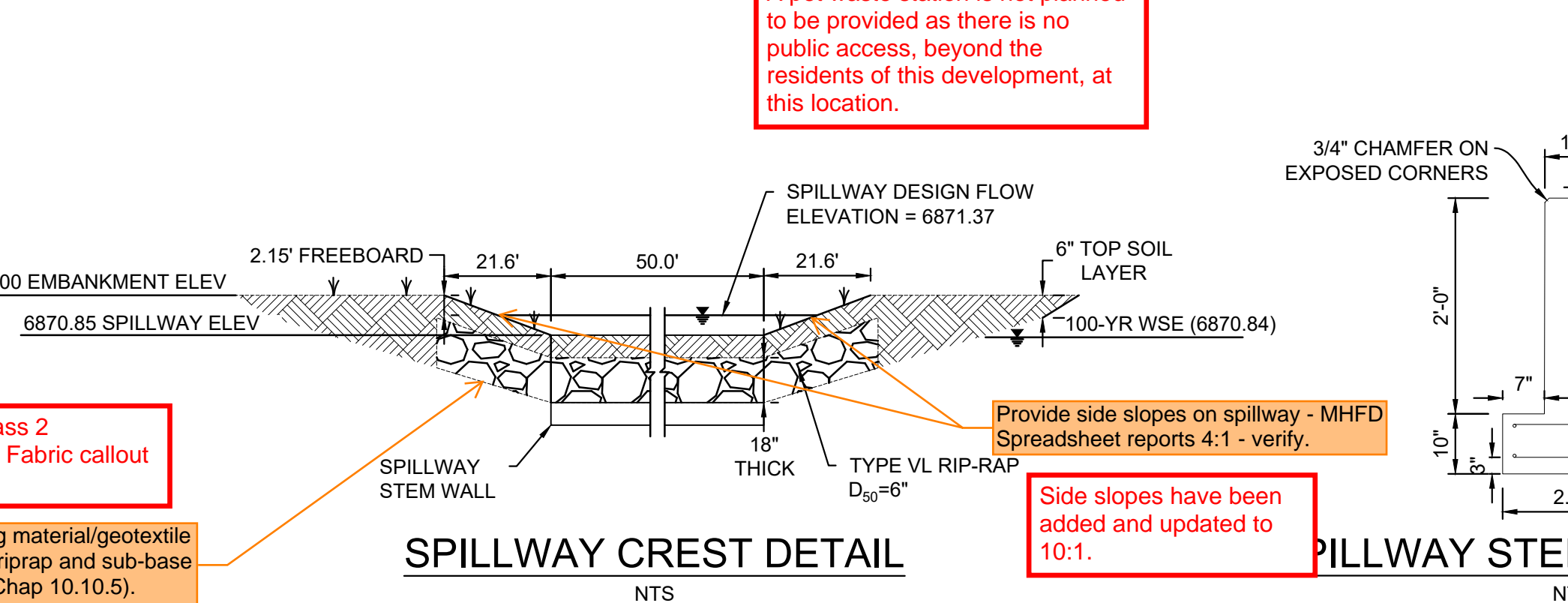
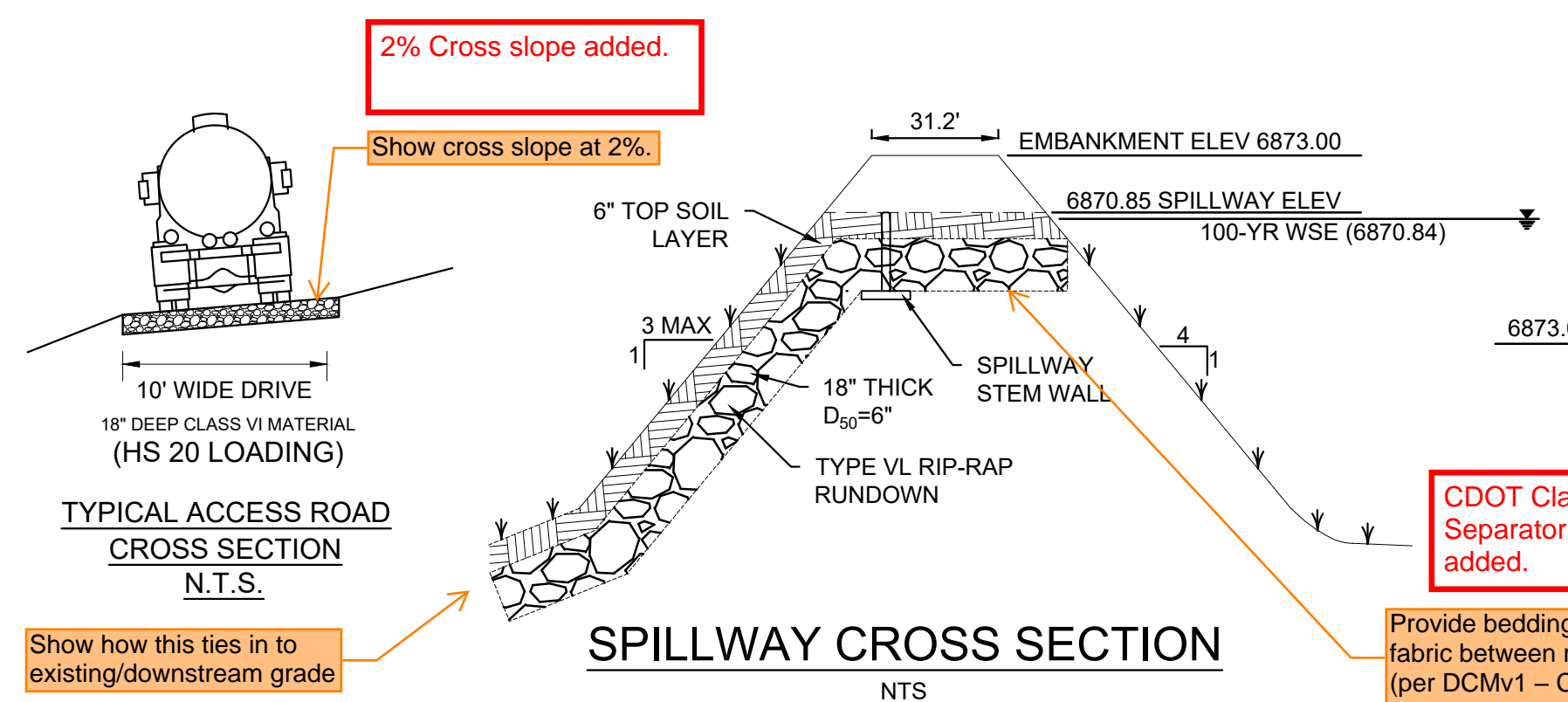
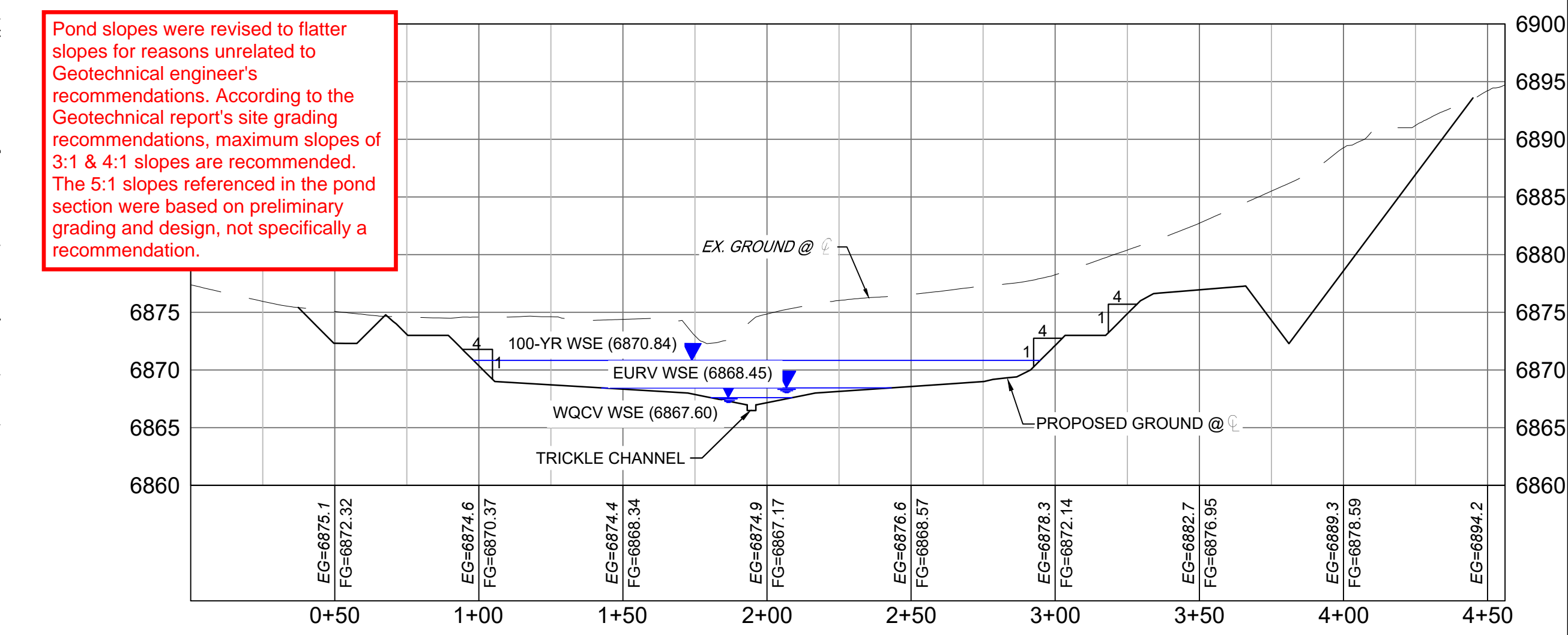
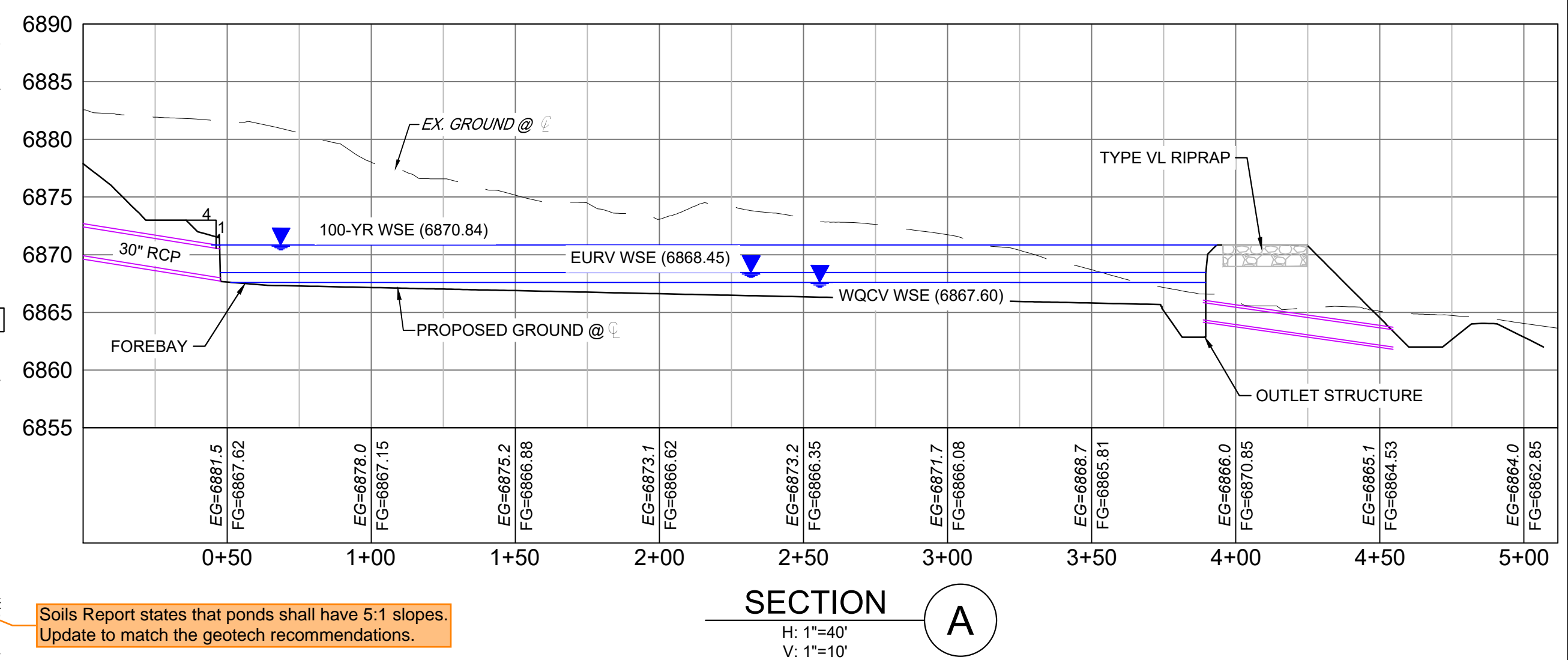
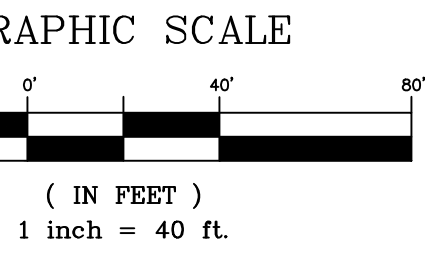
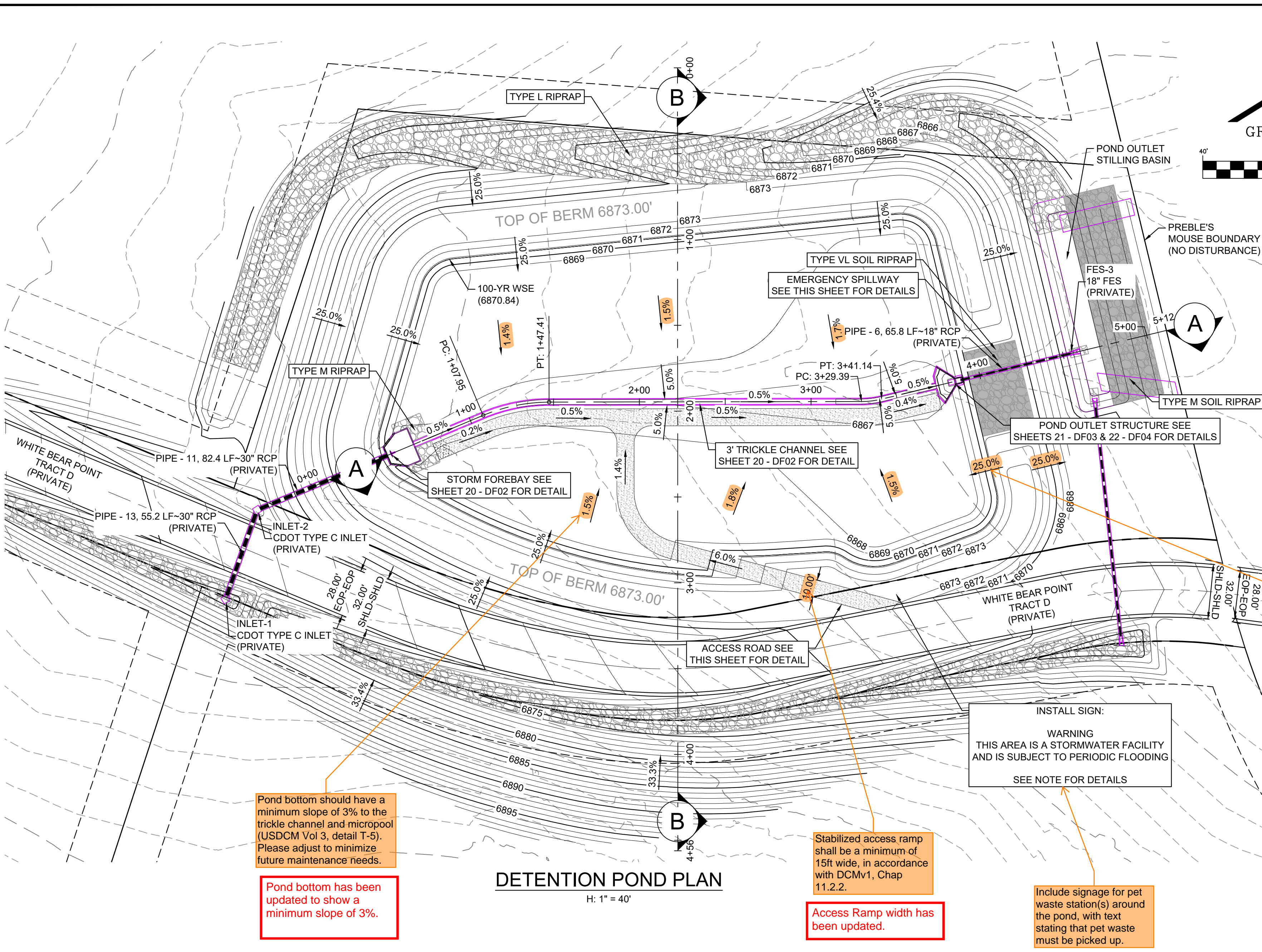
HAY CREEK VALLEY EL PASO COUNTY, COLORADO 100% CONSTRUCTION DOCUMENTS. DETENTION POND GENERAL NOTES. DESIGNER: WCG, DRAWN: RWO, CHECKED: JAO, SCALE: 1"=200', DATE ISSUED: SEPTEMBER 2023, SHEET 18 OF 24, DRAWING No. DFGN01.

The signatures and stamp will be provided upon general acceptance.

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COMPUTER FILE MANAGEMENT

FILE NAME: S:\22.886.076 Hay Creek-Forest Manor-O'Leary Properties\500 CADD\504 Plan Sets\Construction Plans\Pond Plans\DF01.dwg
CTB FILE: Matrix.ctb
PLOT DATE: 9/22/2023 2:49 PM
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.

No.	DATE	DESCRIPTION REVISIONS	BY

BENCHMARK
PROJECT ELEVATIONS ARE NAVD 88 ELEVATIONS BASED ON AN OPUS DERIVED ELEVATION ON CONTROL POINT 10, A NO. 5 REBAR HAVING AN ELEVATION OF 5769.92.

BASIS OF BEARING
THE SOUTH LINE OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, BEING MONUMENTED ON THE EASTERLY END BY A 2-1/2" ALUMINUM CAP STAMPED "NOLTE PLS25955 C1/4 S22 T15S, R65W 1999," AND THE WESTERLY END BY A 2-1/2" ALUMINUM CAP STAMPED "SSS PLS 16154 1/4 S21 S22 T15S, R65W 2000," BEING ASSUMED TO BEAR S89°54'42"W, A DISTANCE OF 2,627.78 FEET.

NOTES:

- ALL CONCRETE SHALL BE CDOT CLASS D; F_c = 4500 PSI
- ALL REINFORCING STEEL SHALL BE F_y: 60 KSI
- CONCRETE COVER FOR STEEL REINFORCING BARS SHALL BE AS FOLLOWS:
CONCRETE PLACED AGAINST EARTH.....3"
CONCRETE EXPOSED TO EARTH OR WEATHER.....2"
- ALL EXPOSED CONCRETE CORNERS SHALL HAVE A MINIMUM 3/8" CHAMFER
THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AS RELATED TO SHORING AND PROTECTION OF NEW AND EXISTING STRUCTURES AS NECESSARY TO PREVENT DAMAGE OR COLLAPSE DUE TO WIND, EARTH, CONSTRUCTION OR OTHER LOADS.
- STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH CDOT STANDARD PLAN M-206-2
- ALL BEDDING SHALL BE A MINIMUM OF 12" THICK CDOT CLASS 6 COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY DETERMINED IN CONFORMANCE WITH AASHTO 180
- INLET STEPS SHALL BE ALUMINUM & CONFORM TO CITY OF COLORADO SPRINGS STANDARD DETAIL D-20D
- WINGWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CDOT STANDARD M-601-20
- SAWCUT APRON JOINTING SHALL BE SPACED AT 10' MAX. SPACING. NO ACUTE ANGLES WILL BE ALLOWED. TURN JOINTS PERPENDICULAR TO FOOTING AT 2' OFFSET
- ALL WARNING SIGNS TO HAVE A MINIMUM AREA OF 3 SF AND SHALL BE FABRICATED OF METAL OR PLASTIC WITH RED LETTERING ON A WHITE BACKGROUND

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

HAY CREEK VALLEY
EL PASO COUNTY, COLORADO
100% CONSTRUCTION DOCUMENTS

DETENTION POND 1 SITE PLAN

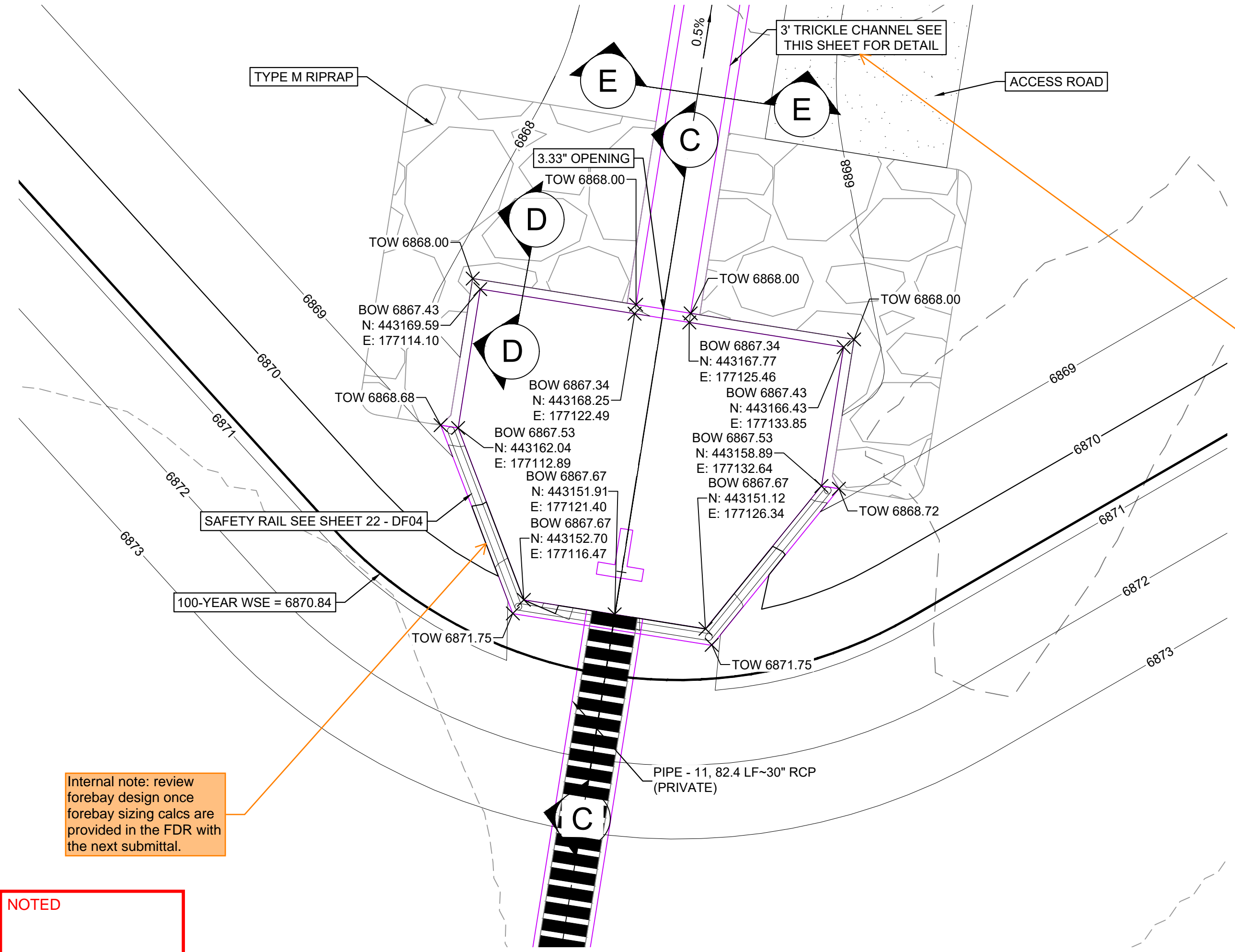
FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 22.886.076

DESIGNED BY: WCG
DRAWN BY: RWO
CHECKED BY: JAO

SCALE
HORIZ 1"=200'
VERT. N/A

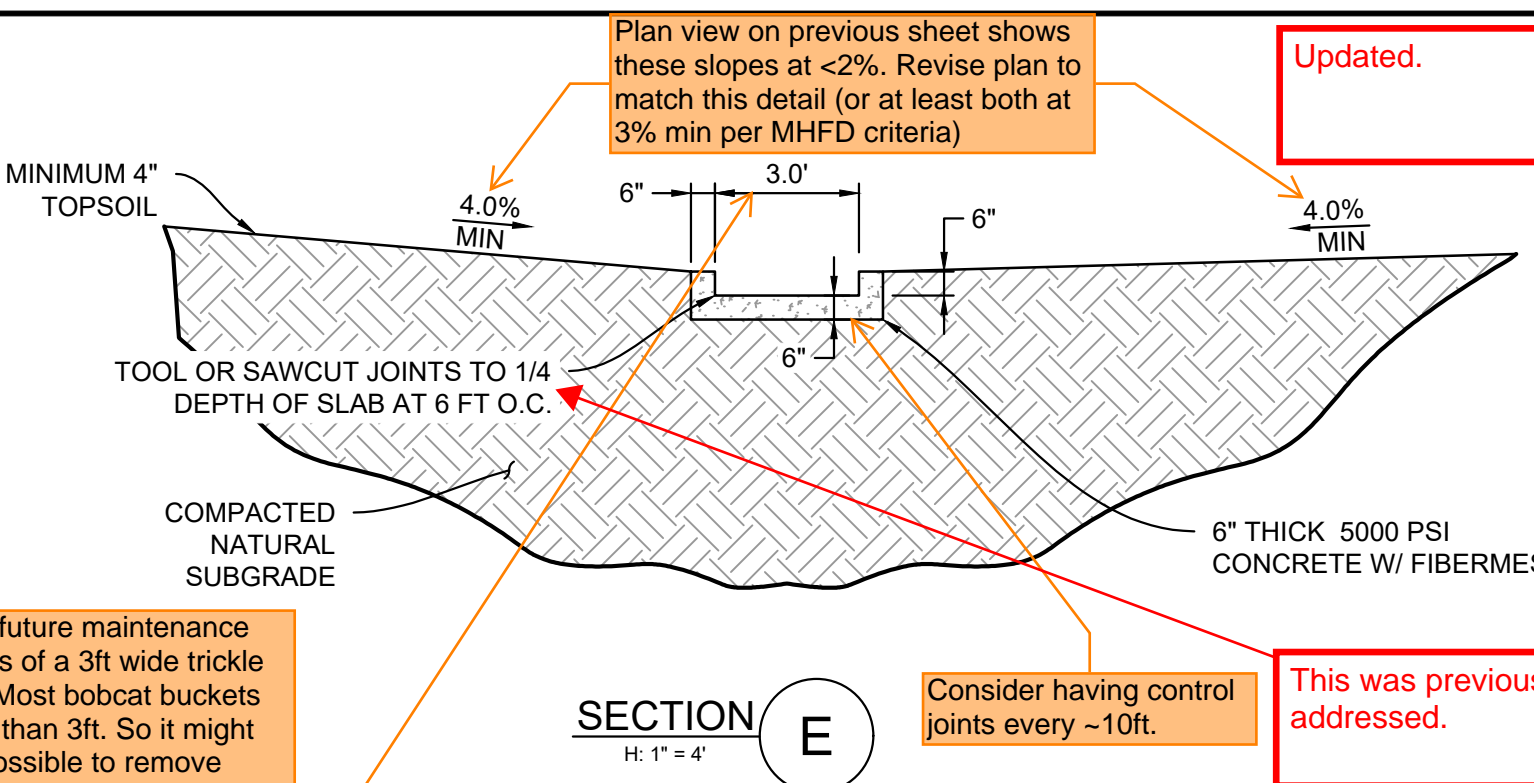
DATE ISSUED: SEPTEMBER 2023
SHEET 19 OF 24

DRAWING No. DF01



Internal note: review forebay design once forebay sizing calcs are provided in the FDR with the next submittal.

NOTED



Consider future maintenance challenges of a 3ft wide trickle channel. Most bobcat buckets are wider than 3ft. So it might only be possible to remove sediment from the ~300ft long trickle channel via hand tools, which is a significant maintenance effort. Just a common note we have received from many pond end-users who wish their trickle channel was wider.

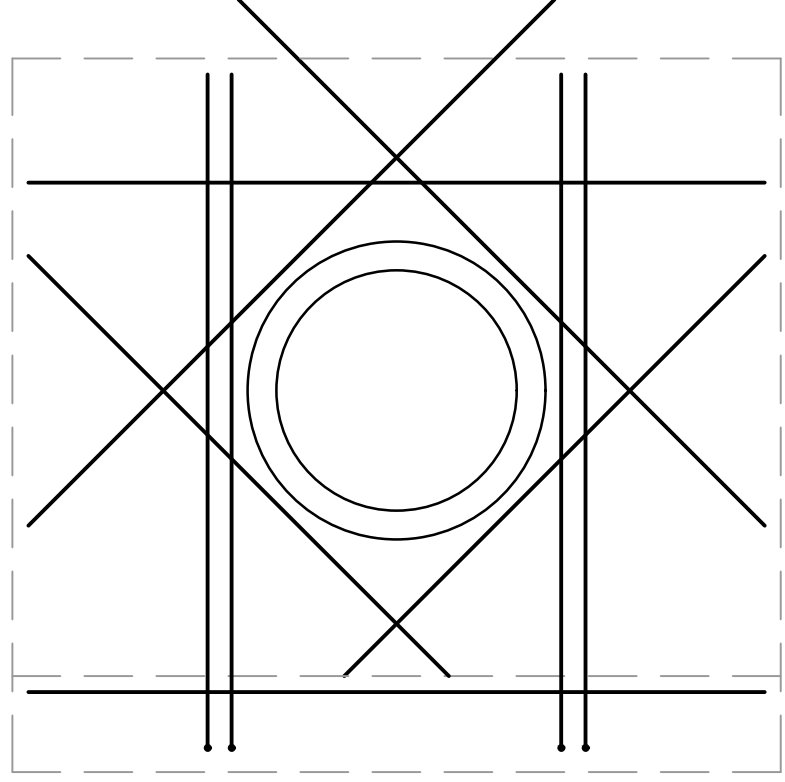
Client does not want channel to be wider than 3 feet.

Show dimension of other direction since it isn't shown on this detail or the plan view to the left.

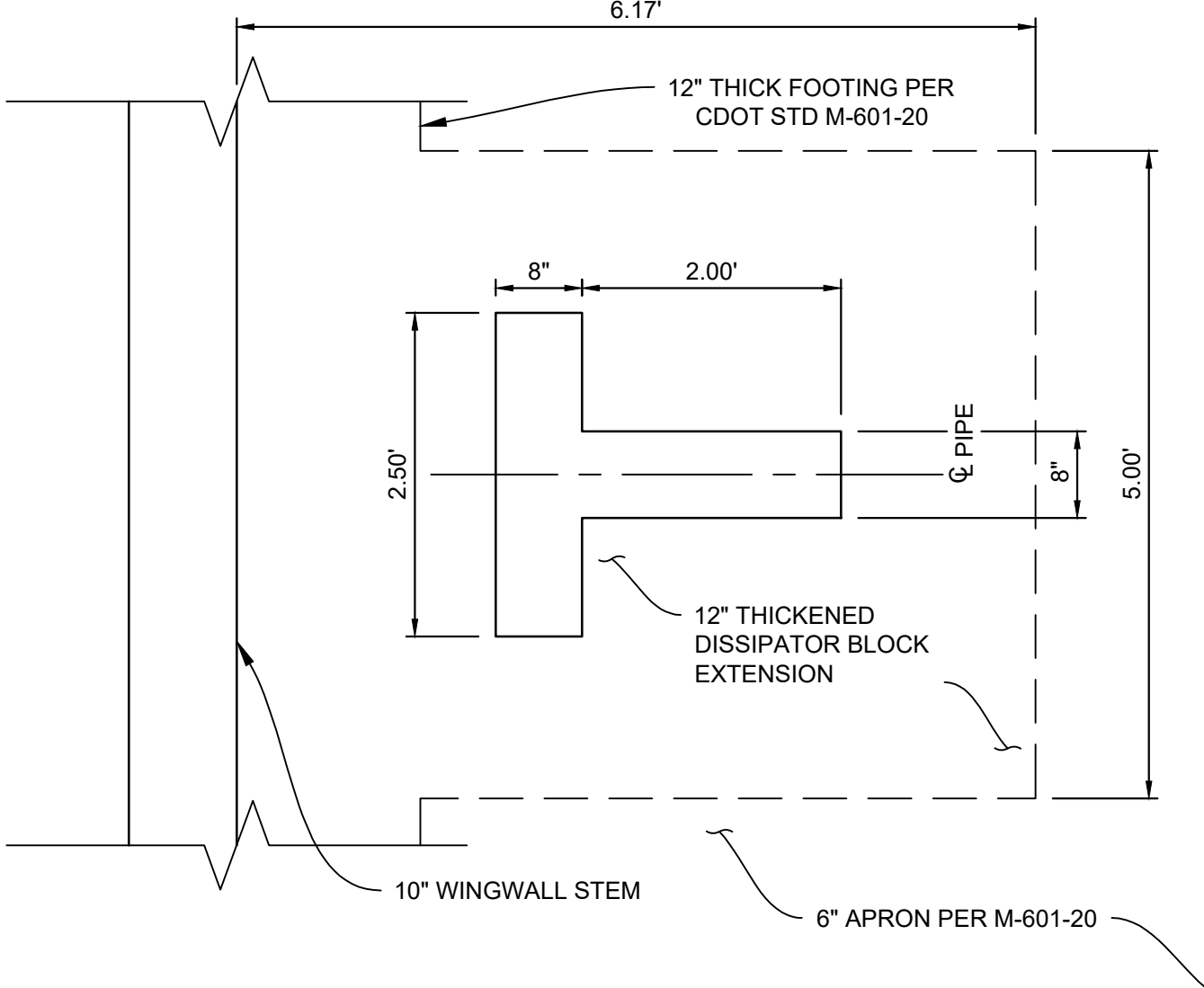
Dim added.

Note: extending the riprap to the top of the forebay wall will not be possible adjacent to the trickle channel since the trickle channel is so much lower than the top of the forebay wall. Provide detail on how this transition will occur or modify the design.

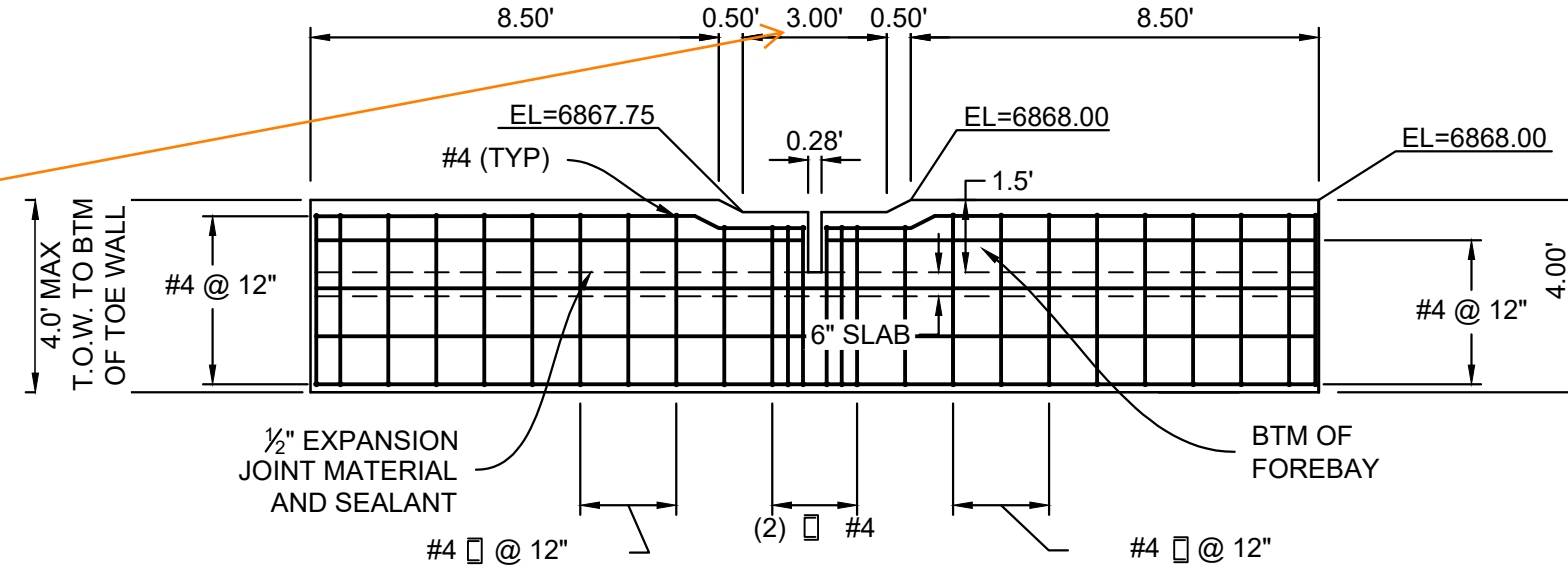
Clarification added to plan view.



30" RCP PENETRATION DETAIL



DISSIPATOR BLOCK PLAN VIEW

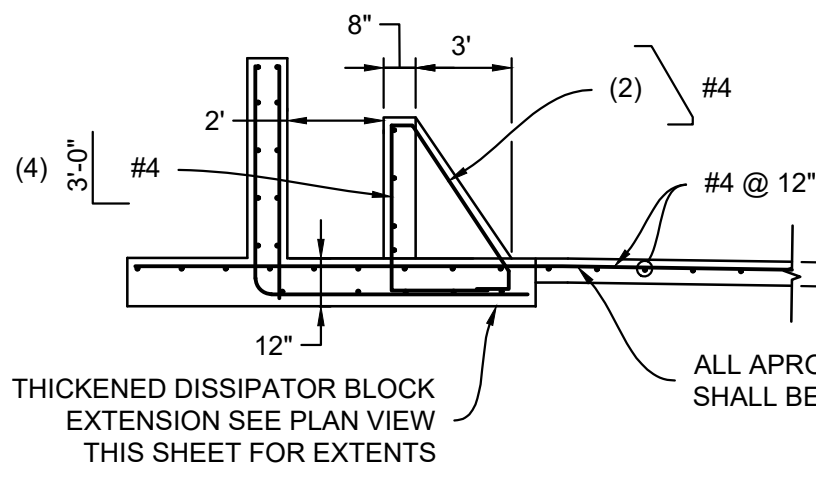


FOREBAY STEM WALL ELEVATION

Details have been updated.

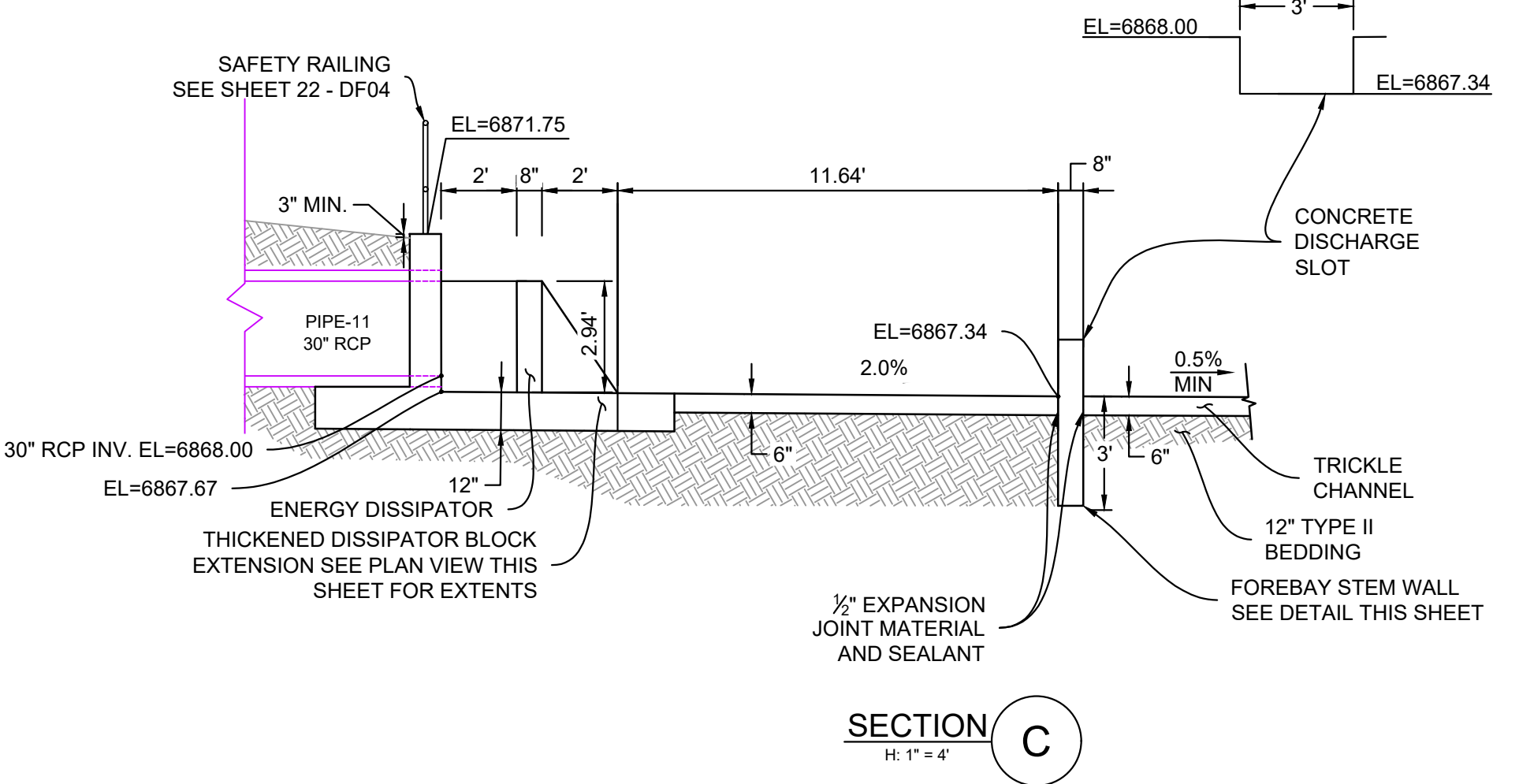
Revise such that these two details match.

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DISSIPATOR BLOCK REINFORCING

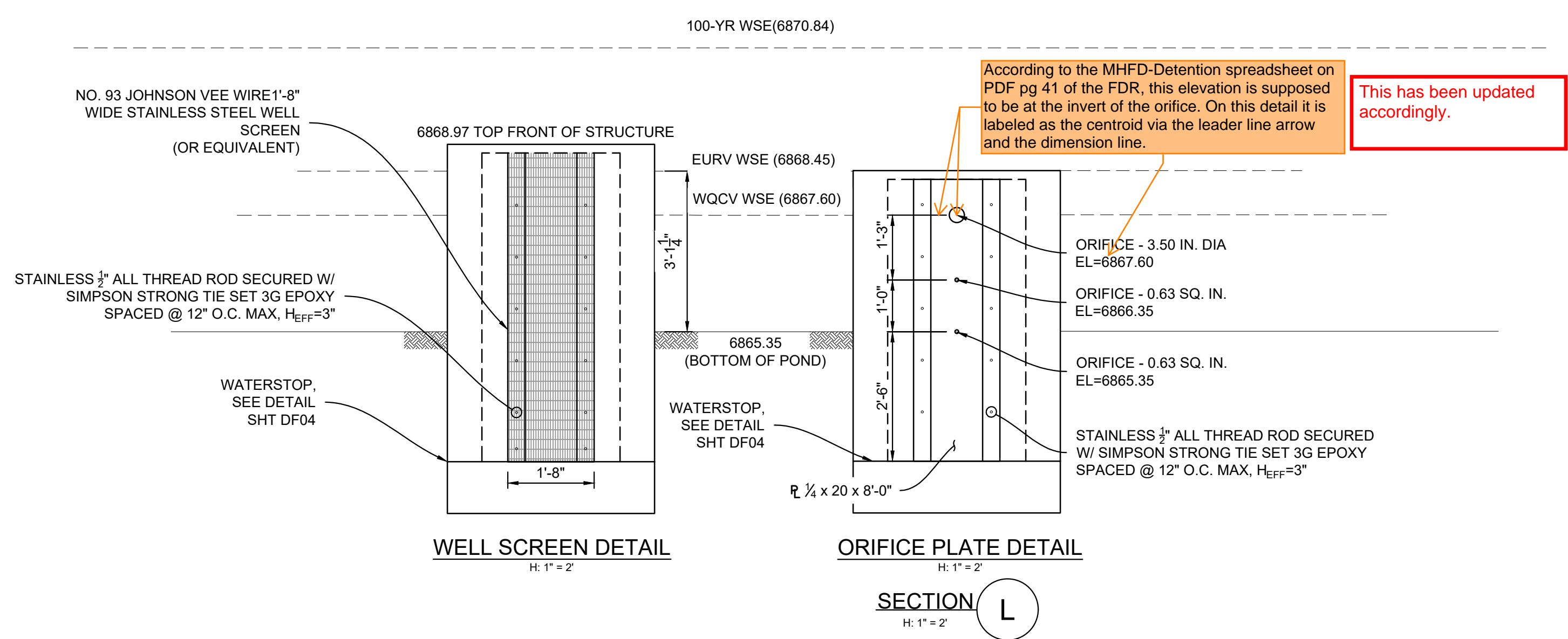
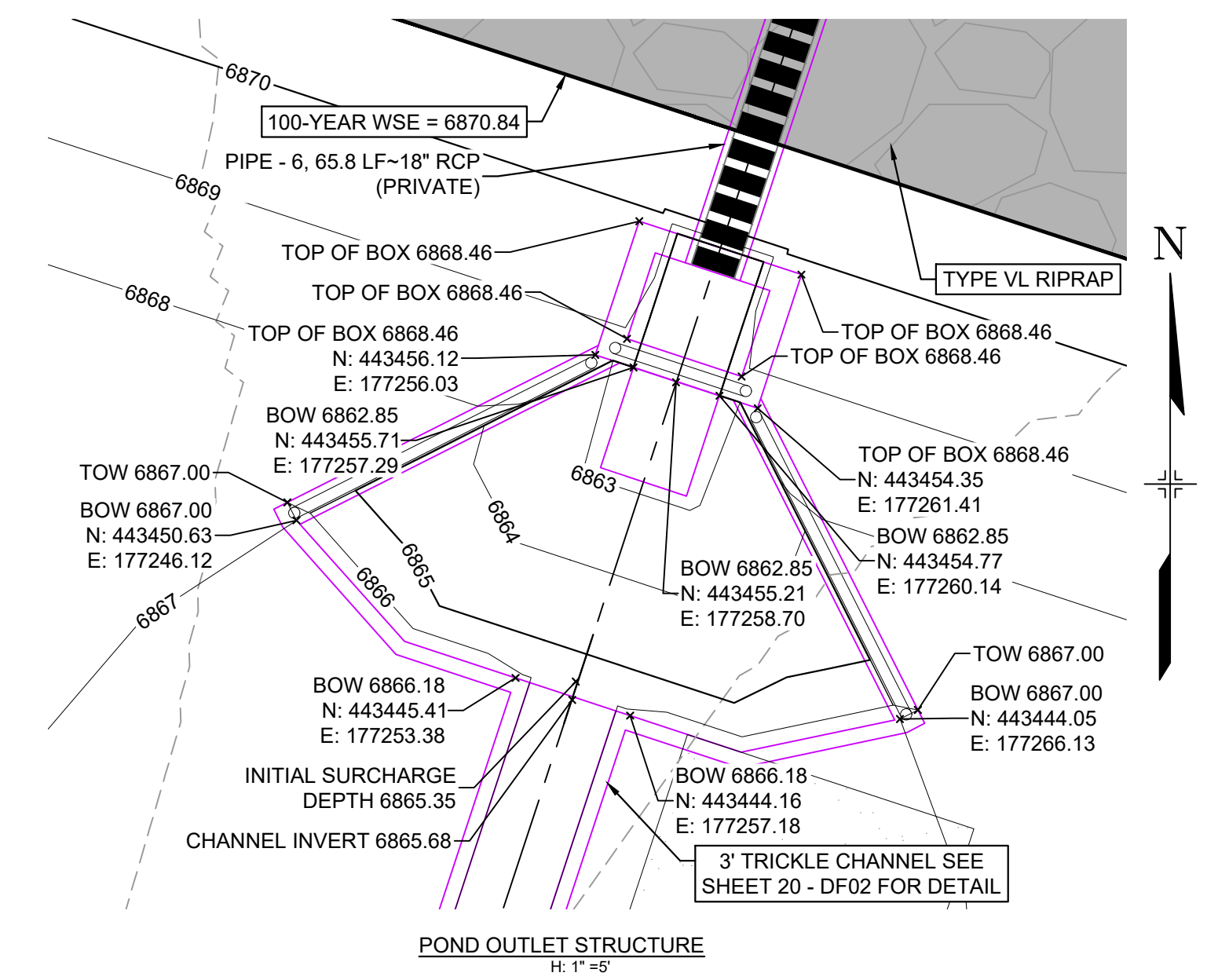
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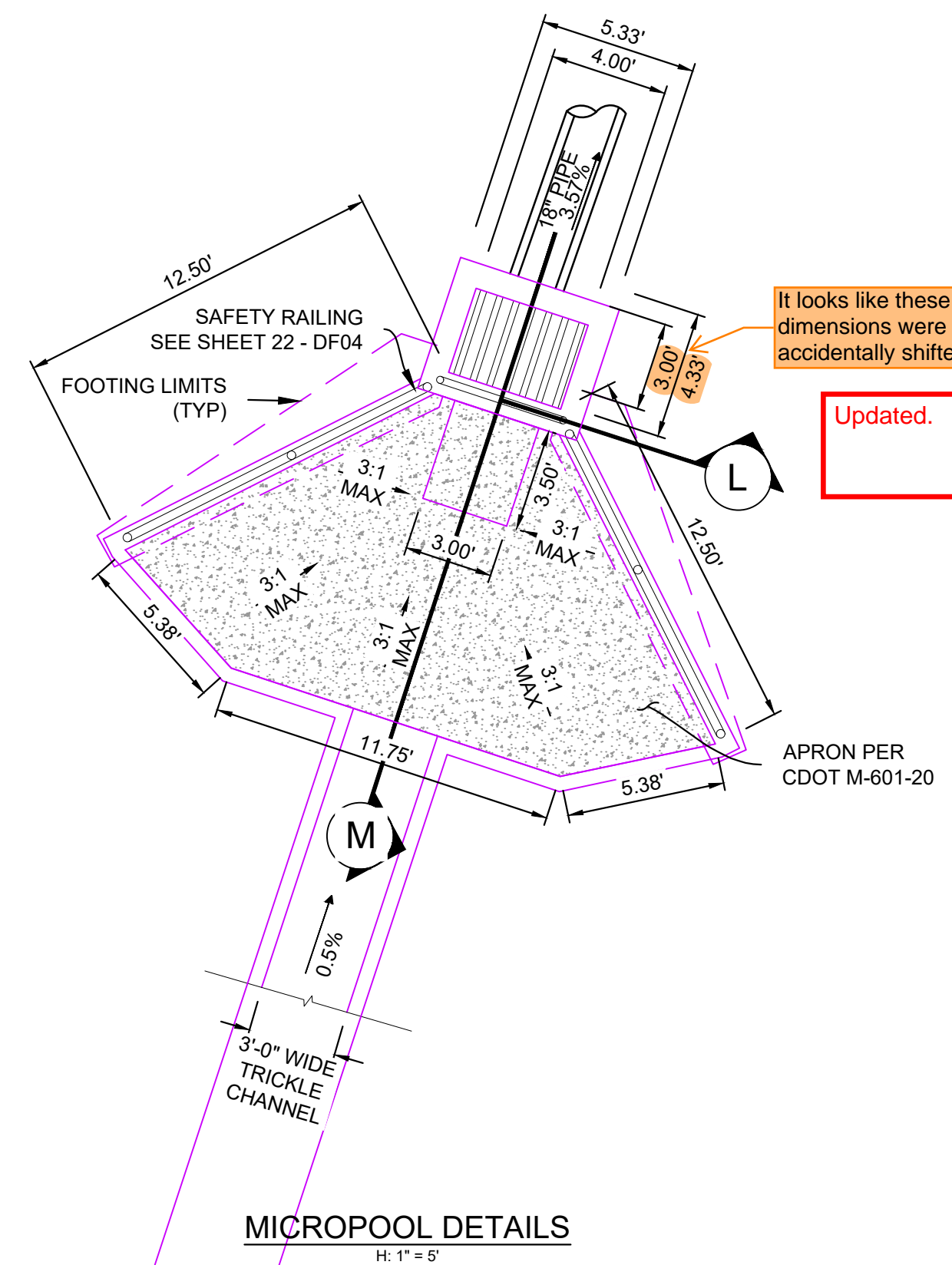
SECTION C

<p>REFERENCE DRAWINGS</p> <p>X-886-066-EX-MAP-1 184022-01 Hay Creek Road BNDY X-886-PR-SITE X-TITLE-CD</p>	<p>SHEET KEY</p>	<p>BENCHMARK</p> <p>PROJECT ELEVATIONS ARE NAVD 88 ELEVATIONS BASED ON AN OPUS DERIVED ELEVATION ON CONTROL POINT 10, A NO. 5 REBAR HAVING AN ELEVATION OF 5769.92.</p> <p>BASIS OF BEARING</p> <p>THE SOUTH LINE OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, BEING MONUMENTED ON THE EASTERLY END BY A 2-1/2" ALUMINUM CAP STAMPED "NOLTE PLS25985 C1/4 S22 T15S, R65W 1999," AND THE WESTERLY END BY A 2-1/2" ALUMINUM CAP STAMPED "SSS PLS 16154 1/4 S21 S22 T15S, R65W 2000," BEING ASSUMED TO BEAR S89°54'42"W, A DISTANCE OF 2,627.78 FEET.</p>	<p>PREPARED BY:</p> <p>Matrix Excellence by Design</p>	<p>PRELIMINARY THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE</p>	<p>HAY CREEK VALLEY EL PASO COUNTY, COLORADO</p> <p>100% CONSTRUCTION DOCUMENTS</p> <p>DETENTION POND 1 DETAILS</p>																																								
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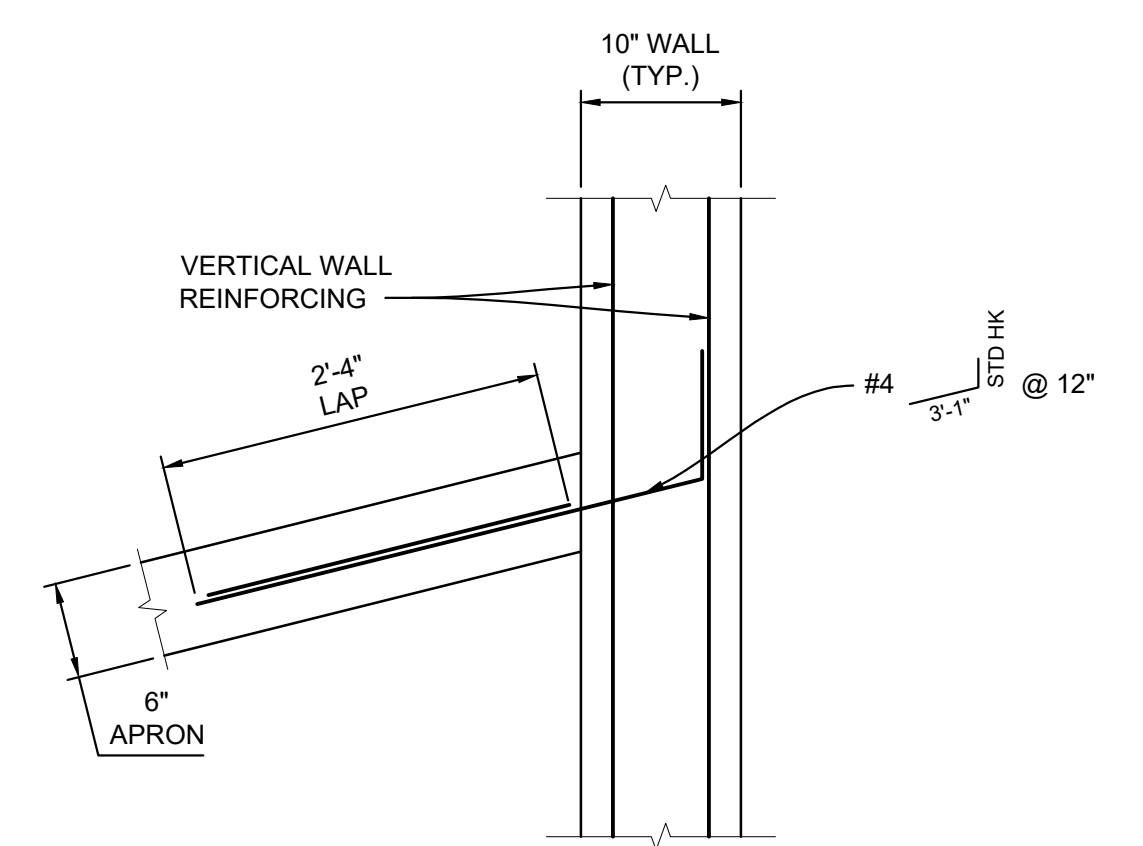
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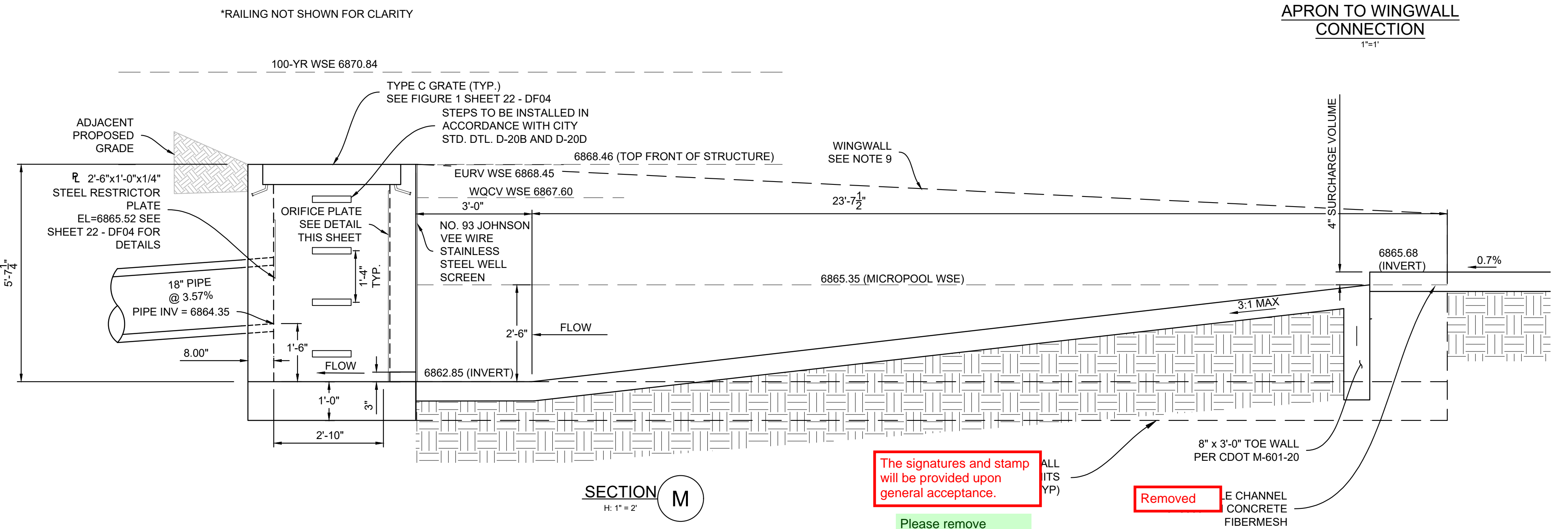
This has been updated accordingly.



It looks like these 2 dimensions were accidentally shifted. Updated.



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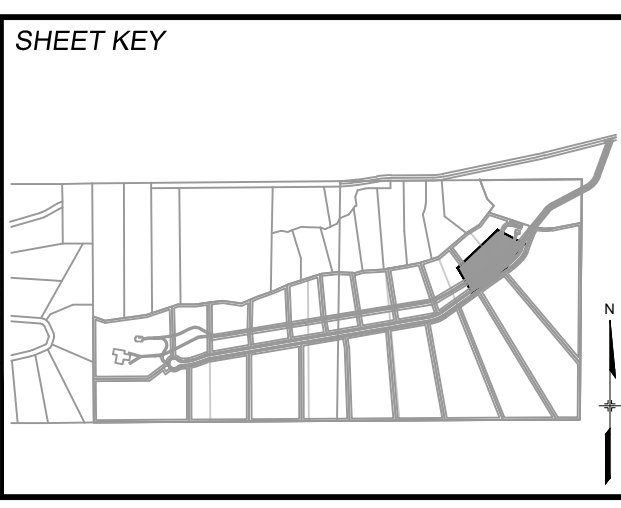
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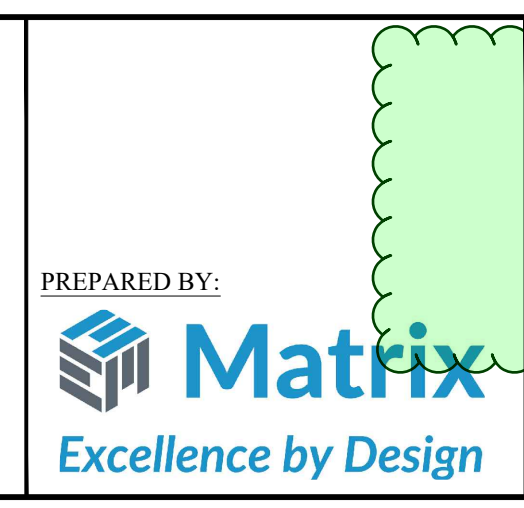
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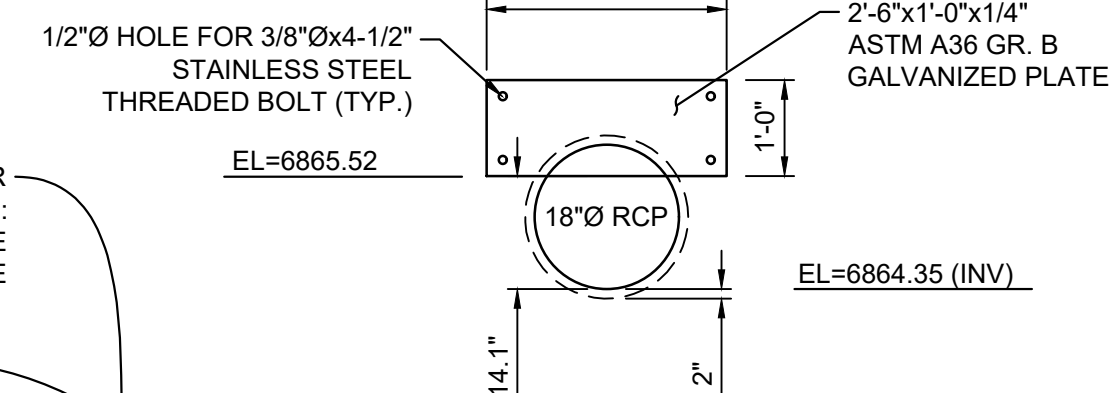
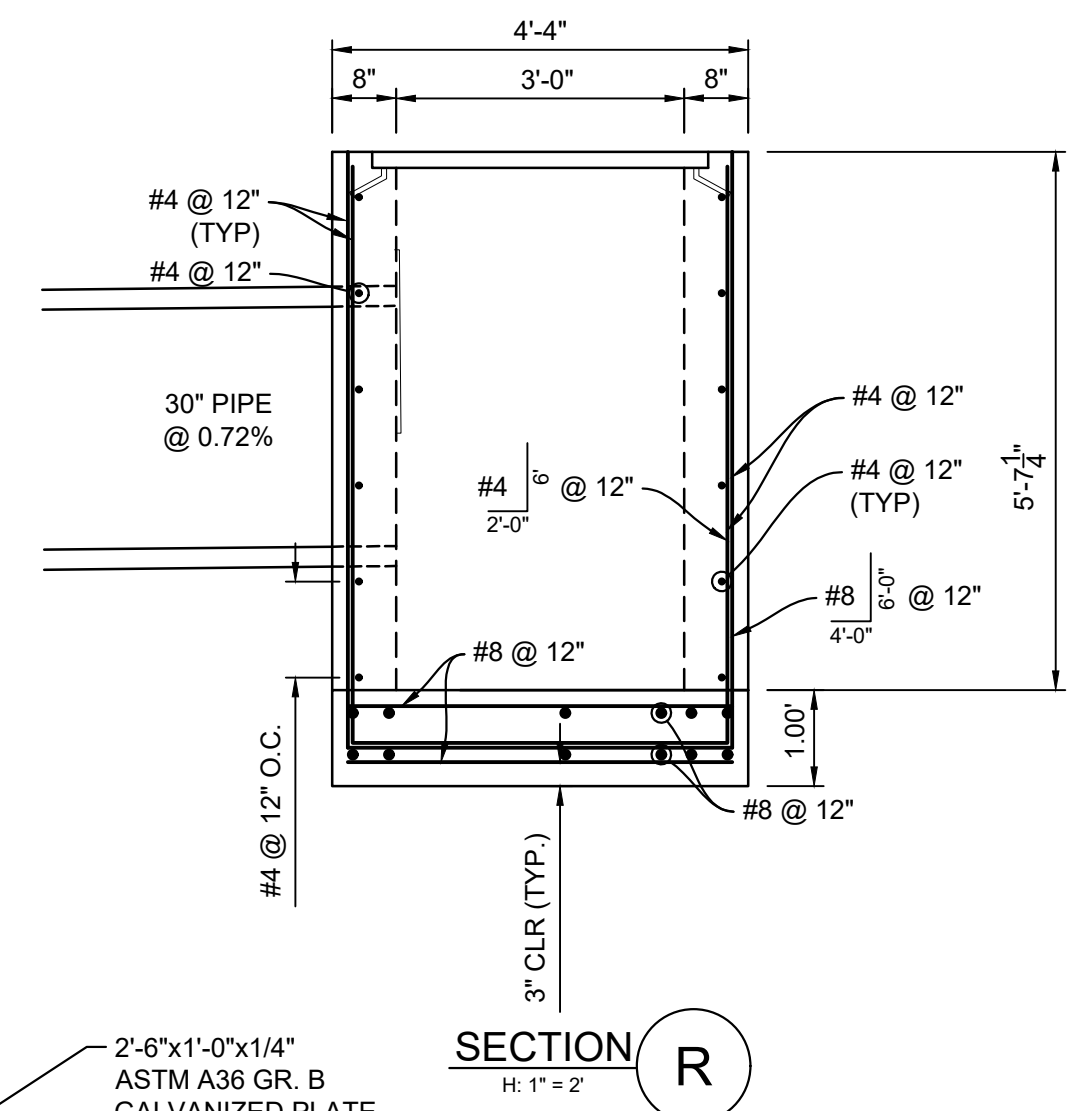
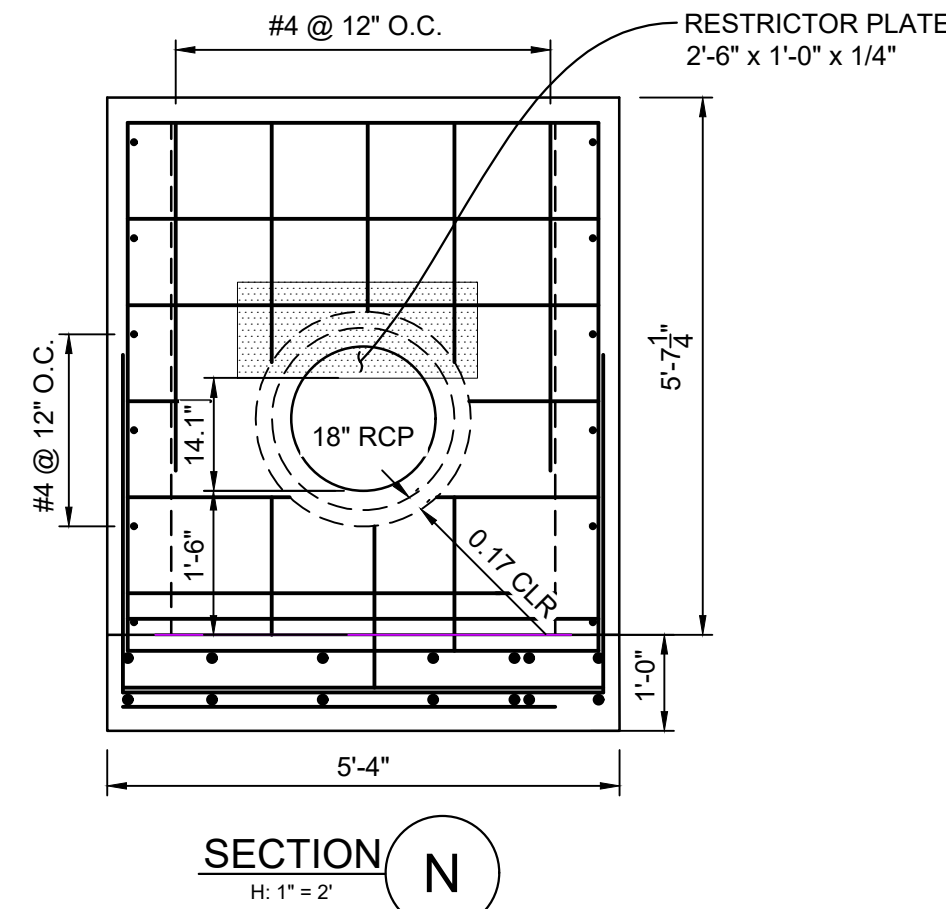
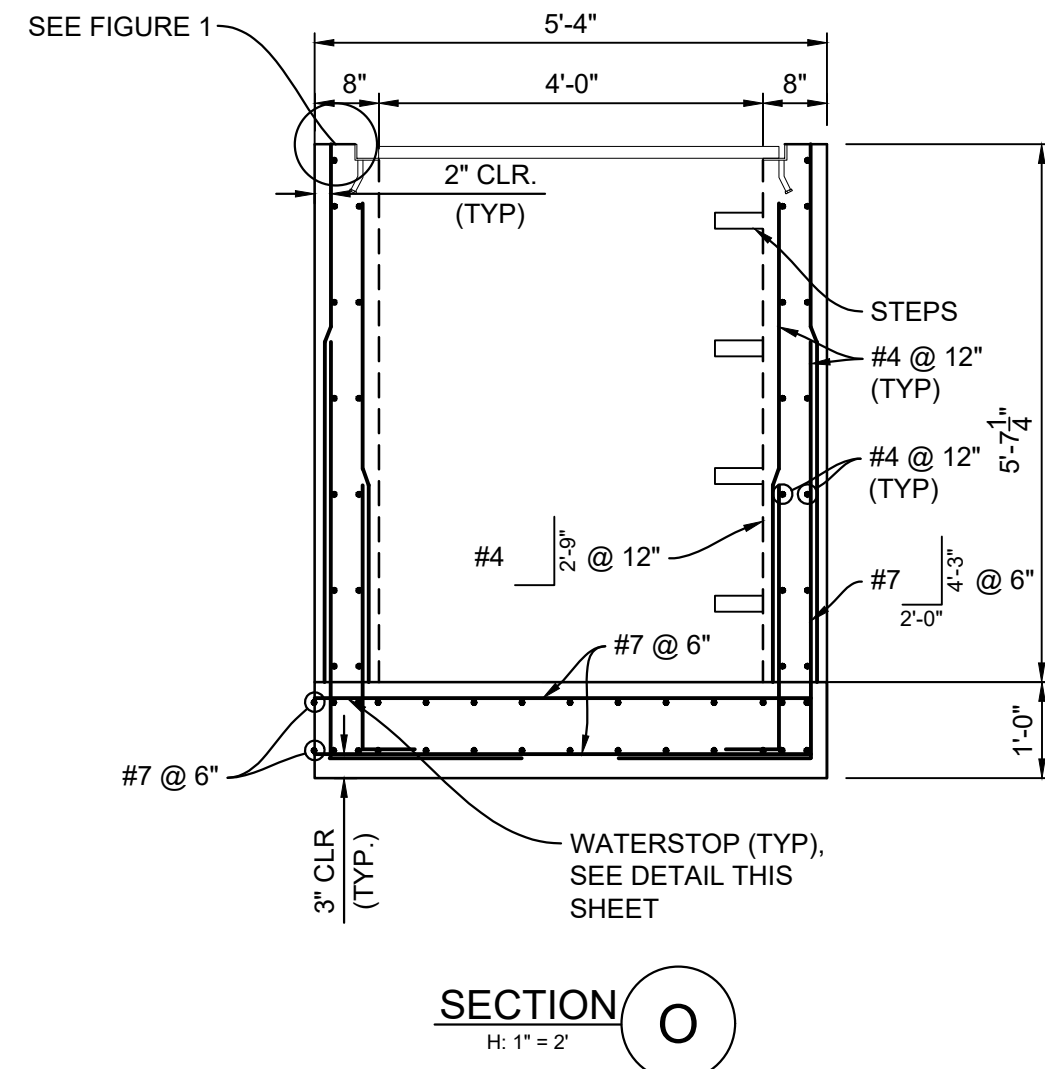
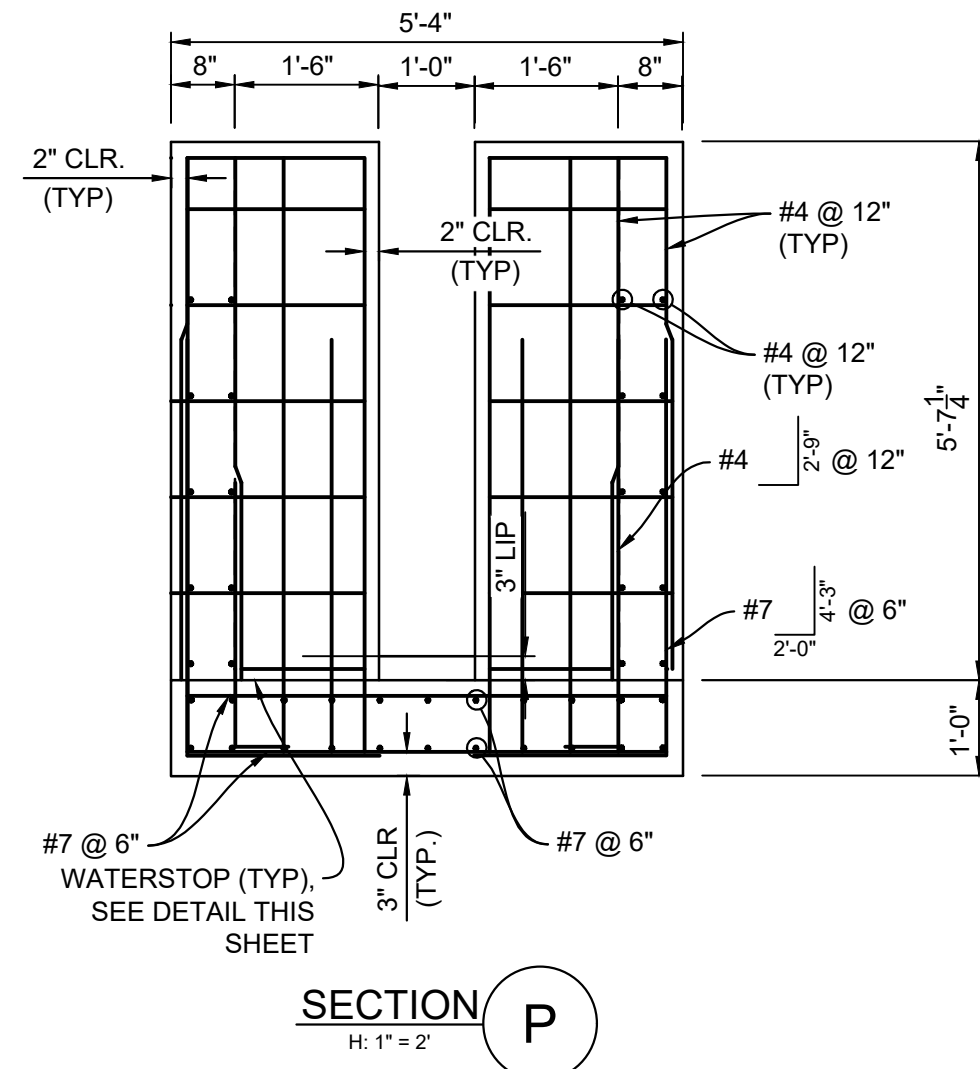
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EL PASO COUNTY, COLORADO
100% CONSTRUCTION DOCUMENTS

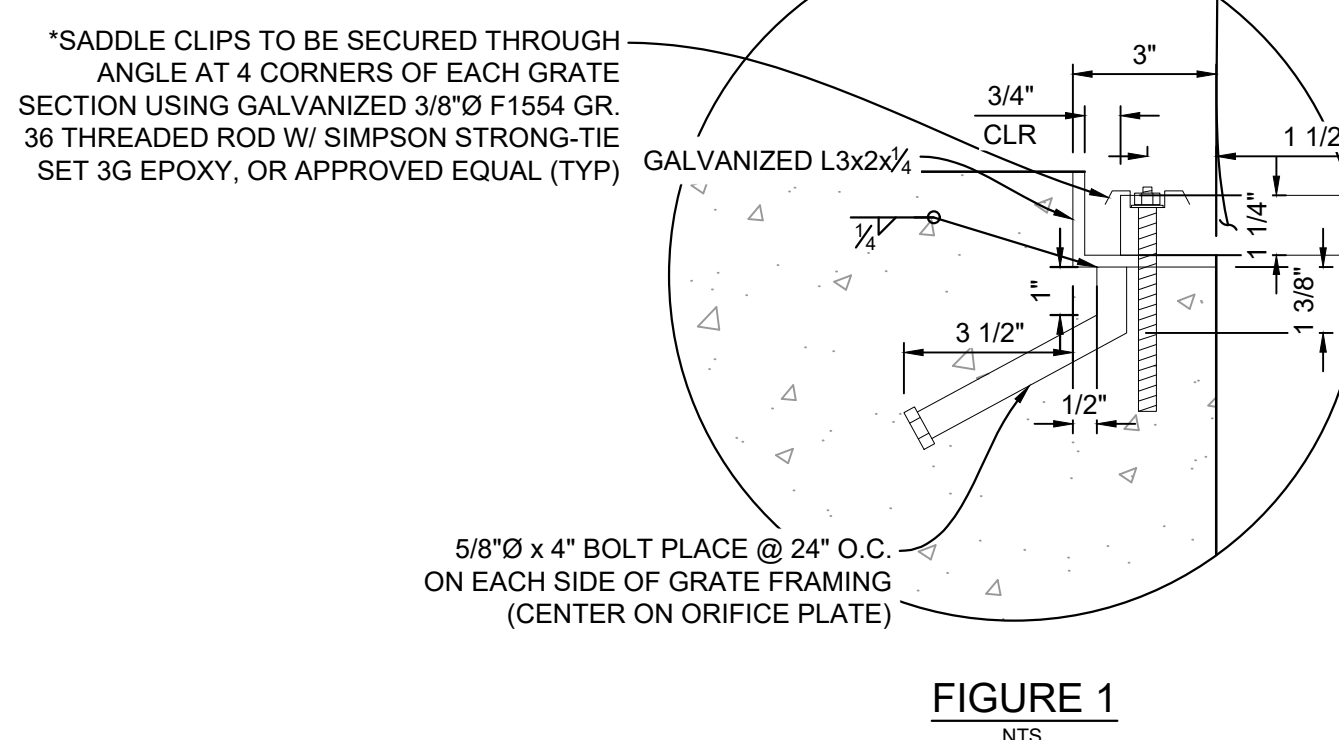
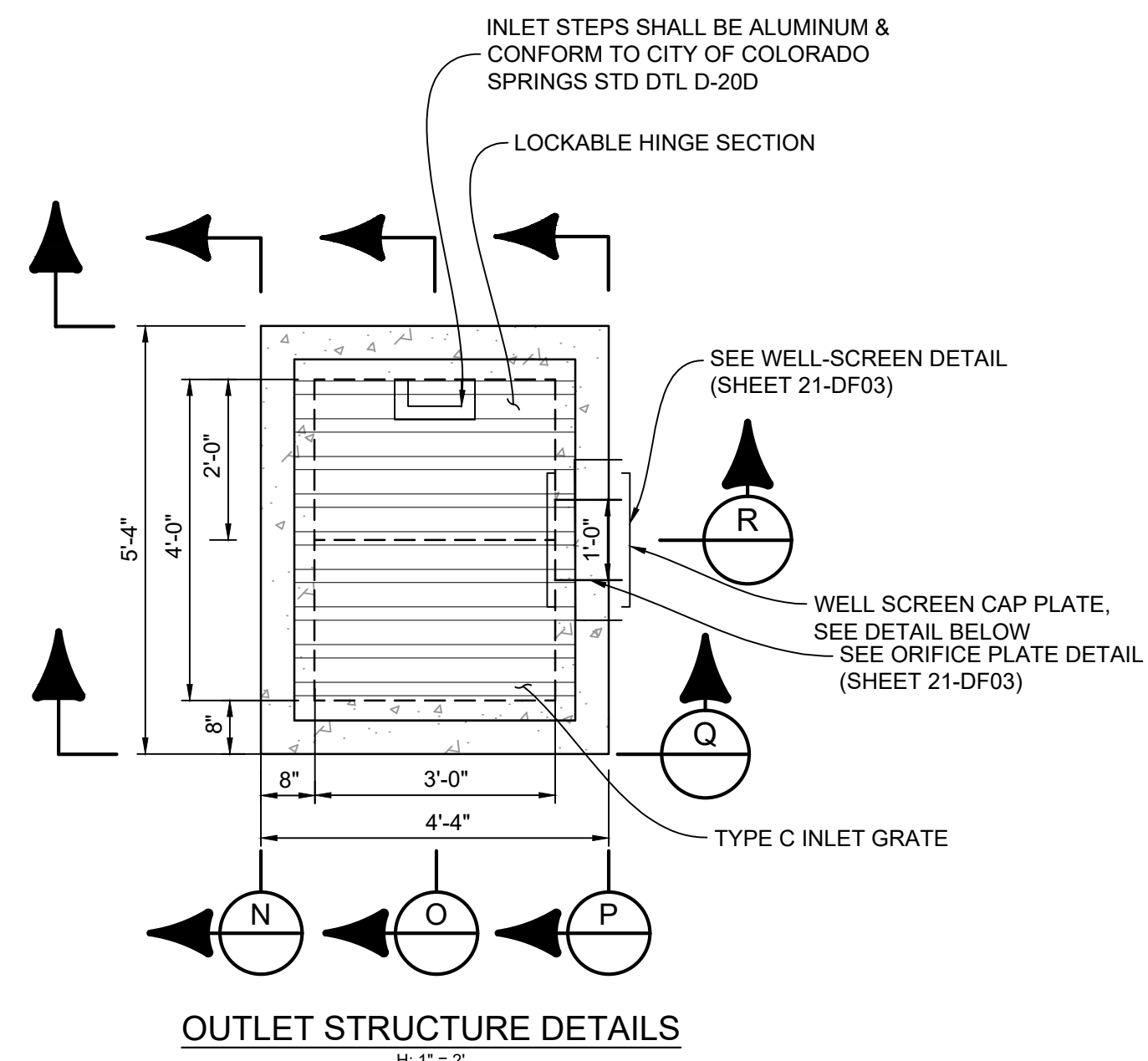
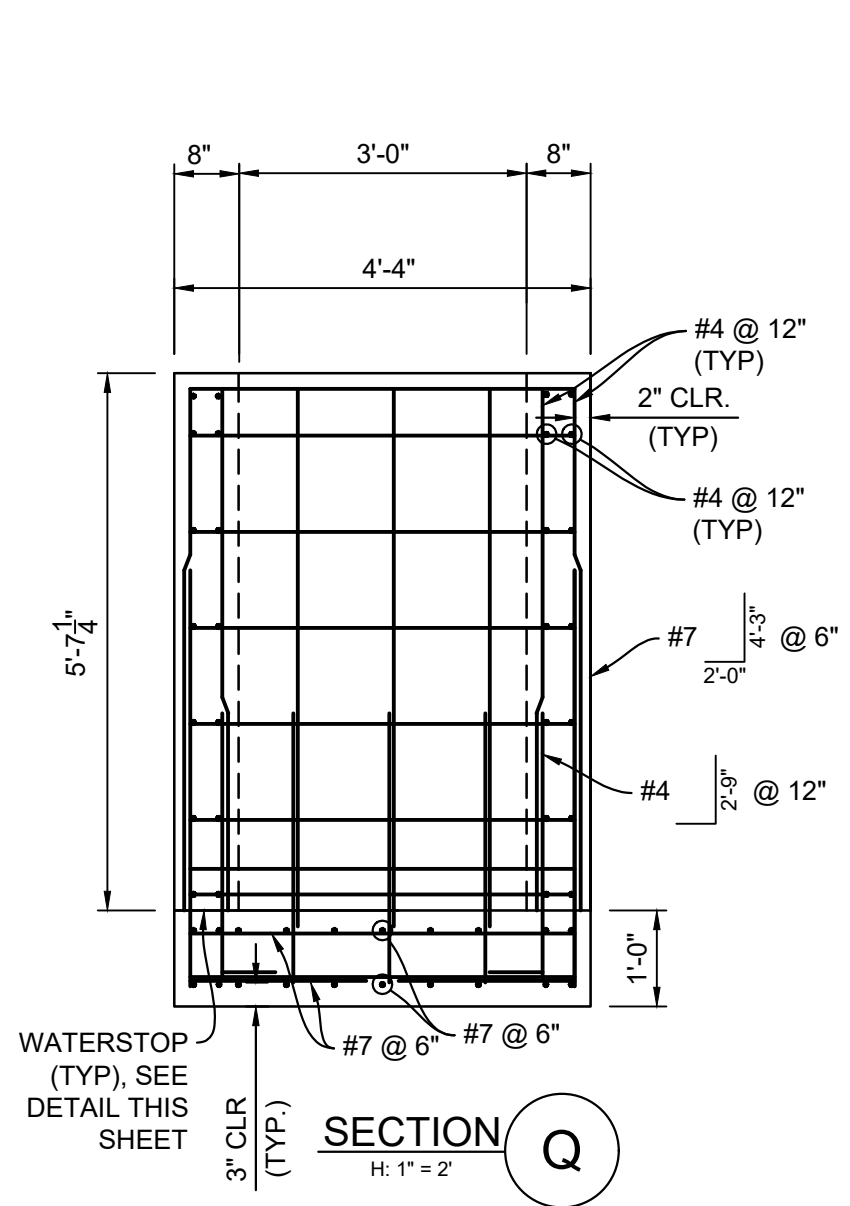
DETENTION POND 1 DETAILS

DESIGNED BY: WCG	SCALE:	DATE ISSUED: SEPTEMBER 2023	DRAWING No.:
DRAWN BY: RWO	HORIZ. VARIES	SHEET 21 OF 24	DF03
CHECKED BY: JAO	VERT. N/A		

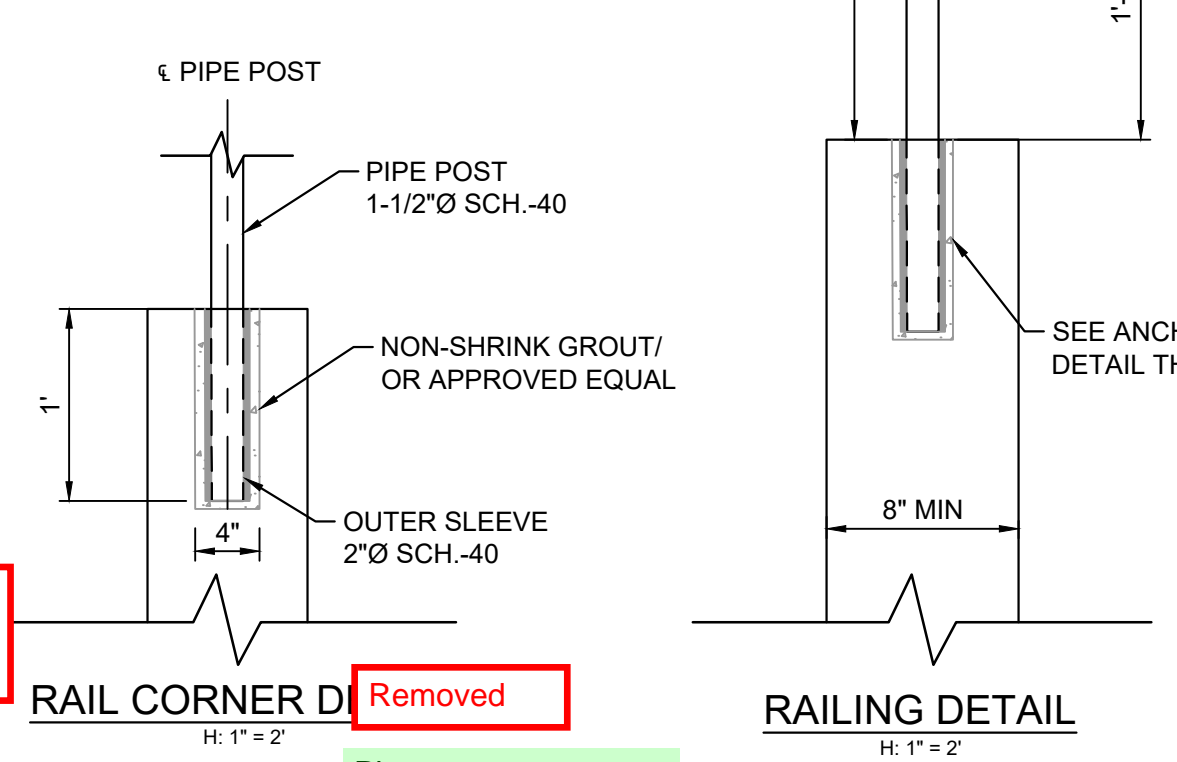
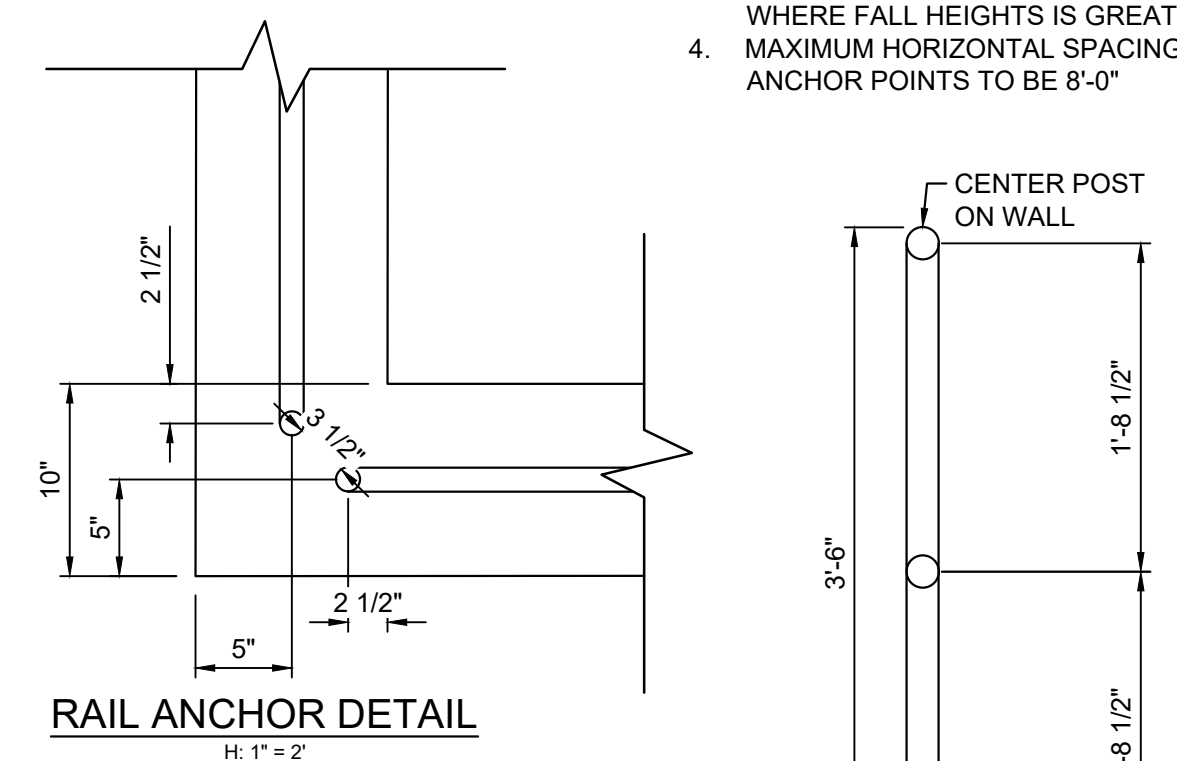
FOR AND ON BEHALF OF MATRIX DESIGN GROUP, INC. PROJECT No. 22.886.076



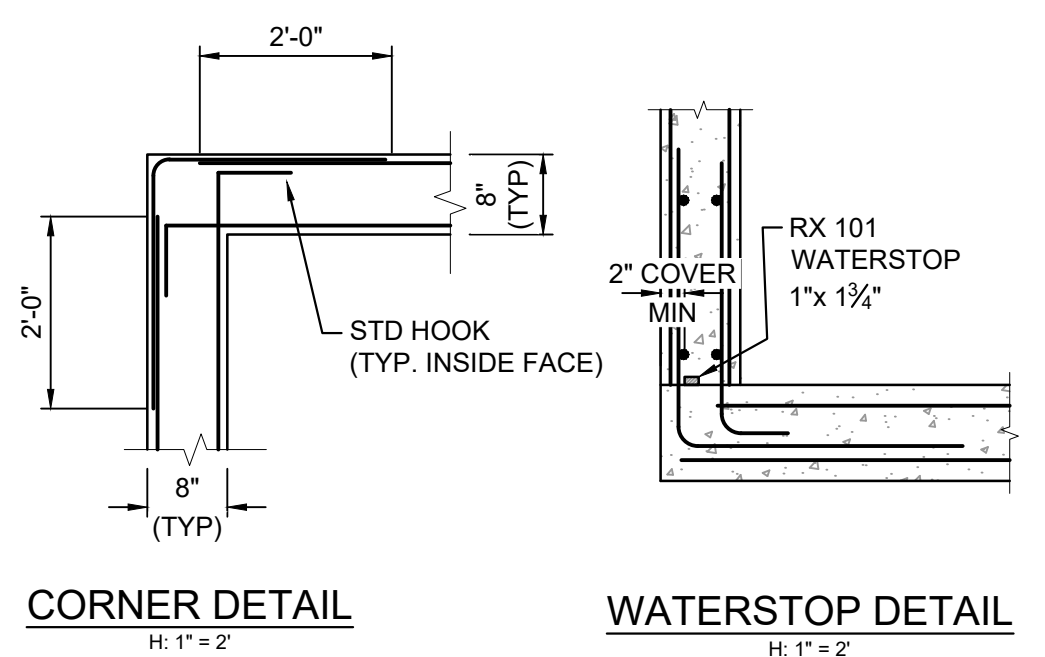
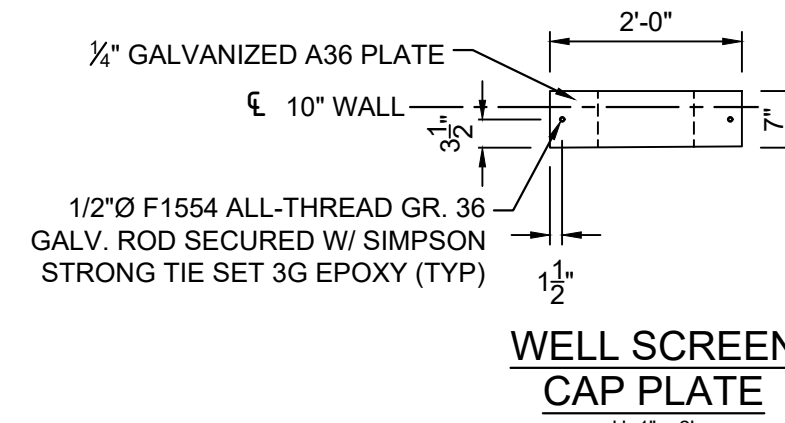
- RAIL NOTES:**
1. ALL PIPES ARE 1 1/2" Ø HOT-DIP GALV. SCH 40 STEEL PIPE
 2. DIMENSIONS SHOWN ARE FROM CENTER OF PIPE UNLESS OTHERWISE NOTED
 3. RAILING SHALL BE PLACED AT ALL LOCATIONS WHERE FALL HEIGHTS IS GREATER THAN 30"
 4. MAXIMUM HORIZONTAL SPACING FOR ANCHOR POINTS TO BE 8'-0"



RESTRICTOR PLATE
H: 1" = 2"



- NOTES:**
1. ALL CONCRETE SHALL BE CDOT CLASS D; F_c = 4500 PSI
 2. ALL REINFORCING STEEL SHALL BE F_y: 60 KSI
 3. CONCRETE COVER FOR STEEL REINFORCING BARS SHALL BE AS FOLLOWS
CONCRETE PLACED AGAINST EARTH.....3"
CONCRETE EXPOSED TO EARTH OR WEATHER.....2"
 4. ALL EXPOSED CONCRETE CORNERS SHALL HAVE A MINIMUM 3/8" CHAMFER
 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AS RELATED TO SHORING AND PROTECTION OF NEW AND EXISTING STRUCTURES AS NECESSARY TO PREVENT DAMAGE OR COLLAPSE DUE TO WIND, EARTH, CONSTRUCTION OR OTHER LOADS
 6. STRUCTURE EXCAVATION AND BACKFILL SHALL BE IN ACCORDANCE WITH CDOT STANDARD PLAN M-206-2
 7. ALL BEDDING SHALL BE A MINIMUM OF 12" THICK CDOT CLASS 6 COMPACTED TO NOT LESS THAN 95% MAXIMUM DENSITY DETERMINED IN CONFORMANCE WITH AASHTO 180
 8. INLET STEPS SHALL BE ALUMINUM & CONFORM TO CITY OF COLORADO SPRINGS STANDARD DETAIL D-20D
 9. WINGWALLS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CDOT STANDARD M-601-20
 10. SAWCUT APRON JOINTING SHALL BE SPACED AT 10' MAX. SPACING. NO ACUTE ANGLES WILL BE ALLOWED. TURN JOINTS PERPENDICULAR TO FOOTING AT 2' OFFSET.

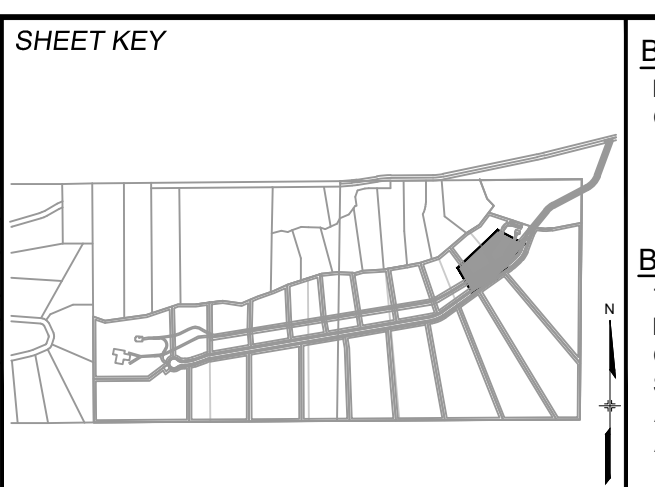


- WATERSTOP NOTES:**
- WATERSTOP SHALL BE VOLCLAY WATERSTOP RX 101 OR EARTHSHIELD JP 648 OR APPROVED EQUAL.
- PLACE WATERSTOP FOR ENTIRETY OF EACH HORIZONTAL & VERTICAL CONSTRUCTION JOINT.
- FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

The signatures and stamp will be provided upon general acceptance.

Please remove

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\22.886.076 Hay Creek-Forest Manor-O'Leary Properties\500 CADD\504 Plan Sets\Construction Plans\Pond Plans\DF01.dwg			
CTB FILE: Matrix.ctb			
PLOT DATE: 9/22/2023 2:49 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
PROJECT ELEVATIONS ARE NAVD 88 ELEVATIONS BASED ON AN OPUS DERIVED ELEVATION ON CONTROL POINT 10, A NO. 5 REBAR HAVING AN ELEVATION OF 5769.92.

BASIS OF BEARING
THE SOUTH LINE OF THE NORTHWEST QUARTER OF SECTION 22, TOWNSHIP 15 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO, BEING MONUMENTED ON THE EASTERLY END BY A 2-1/2" ALUMINUM CAP STAMPED "NOLTE PLS25985 C1/4 S22 T15S, R65W 1999, "AND THE WESTERLY END BY A 2-1/2" ALUMINUM CAP STAMPED "SSS PLS 16154 1/4 S21 S22 T15S, R65W 2000, "BEING ASSUMED TO BEAR S89°54'42"W, A DISTANCE OF 2,627.78 FEET.

PREPARED BY:
Matrix
Excellence by Design

FOR AND ON BEHALF OF
MATRIX DESIGN GROUP, INC.
PROJECT No. 22.886.076

DESIGNED BY: WCG
DRAWN BY: RWO
CHECKED BY: JAO

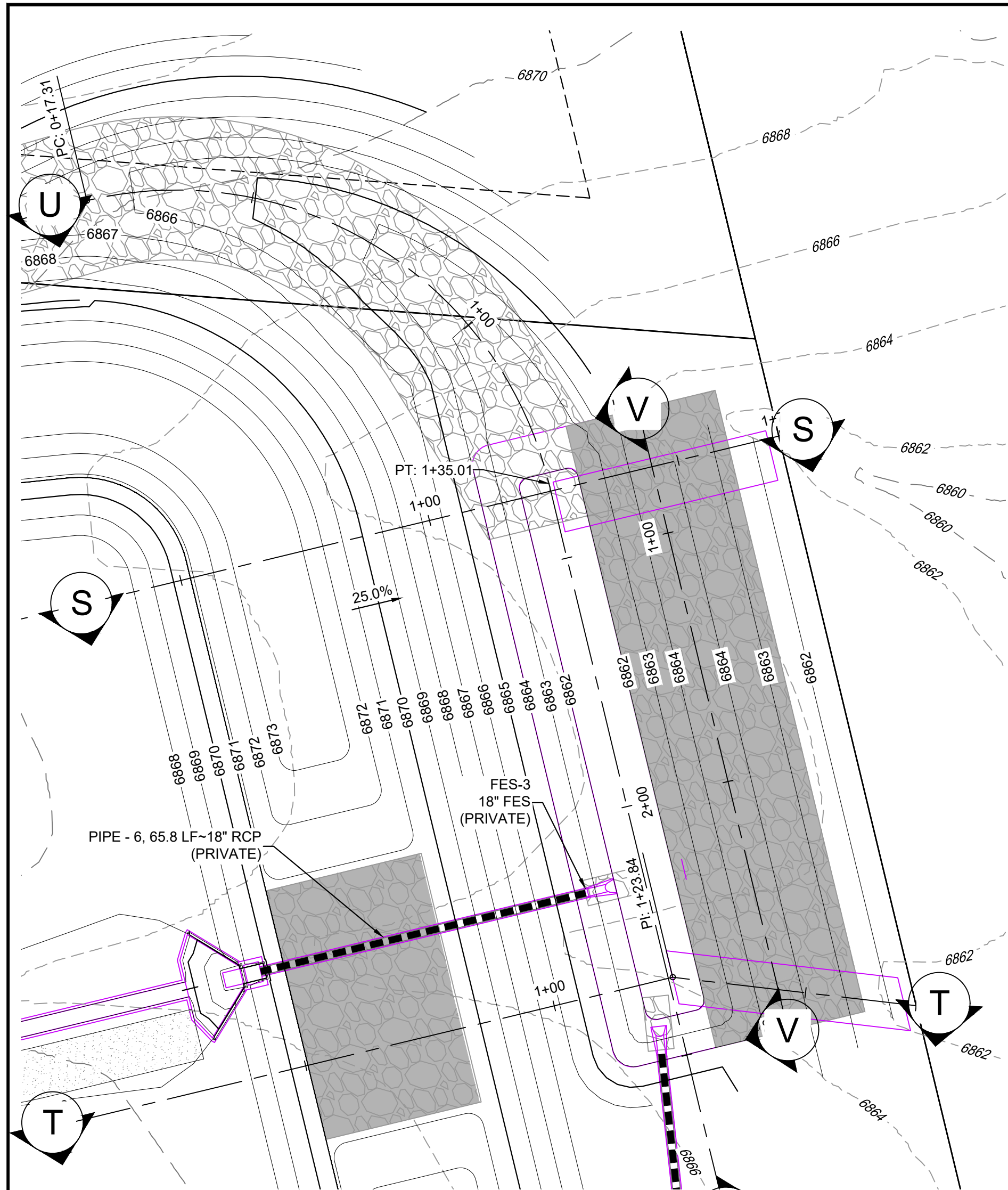
SCALE: HORIZ 1"=2'
VERT. N/A

DATE ISSUED: SEPTEMBER 2023
SHEET 22 OF 24

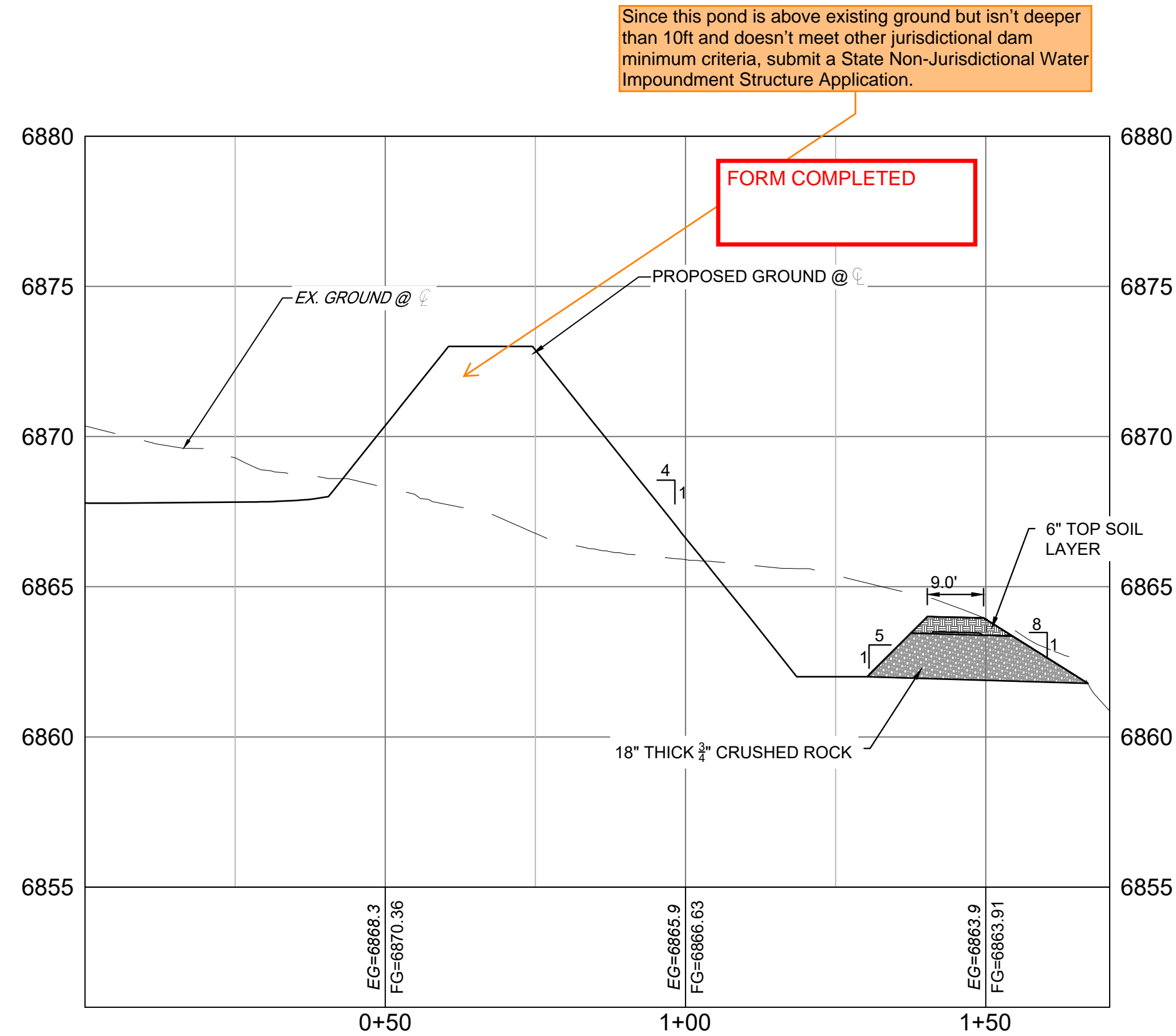
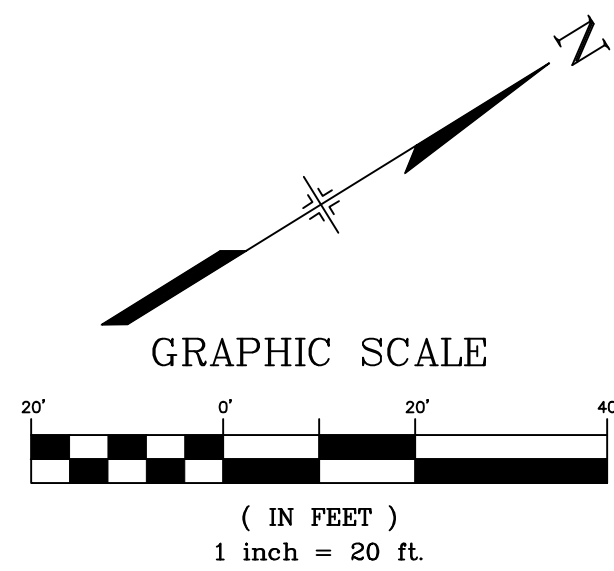
DRAWING No. DF04

HAY CREEK VALLEY
EL PASO COUNTY, COLORADO
100% CONSTRUCTION DOCUMENTS

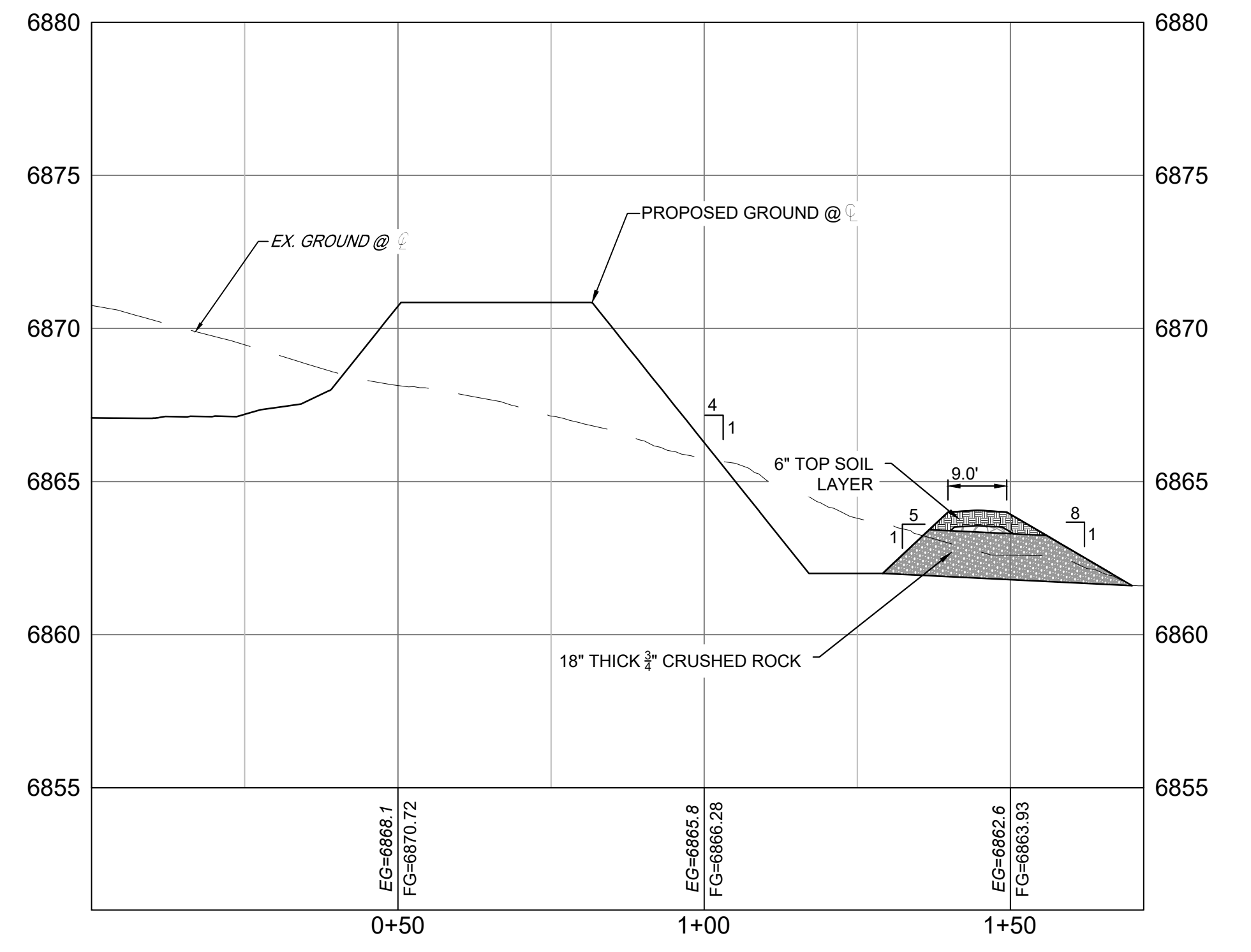
DETENTION POND 1 DETAILS



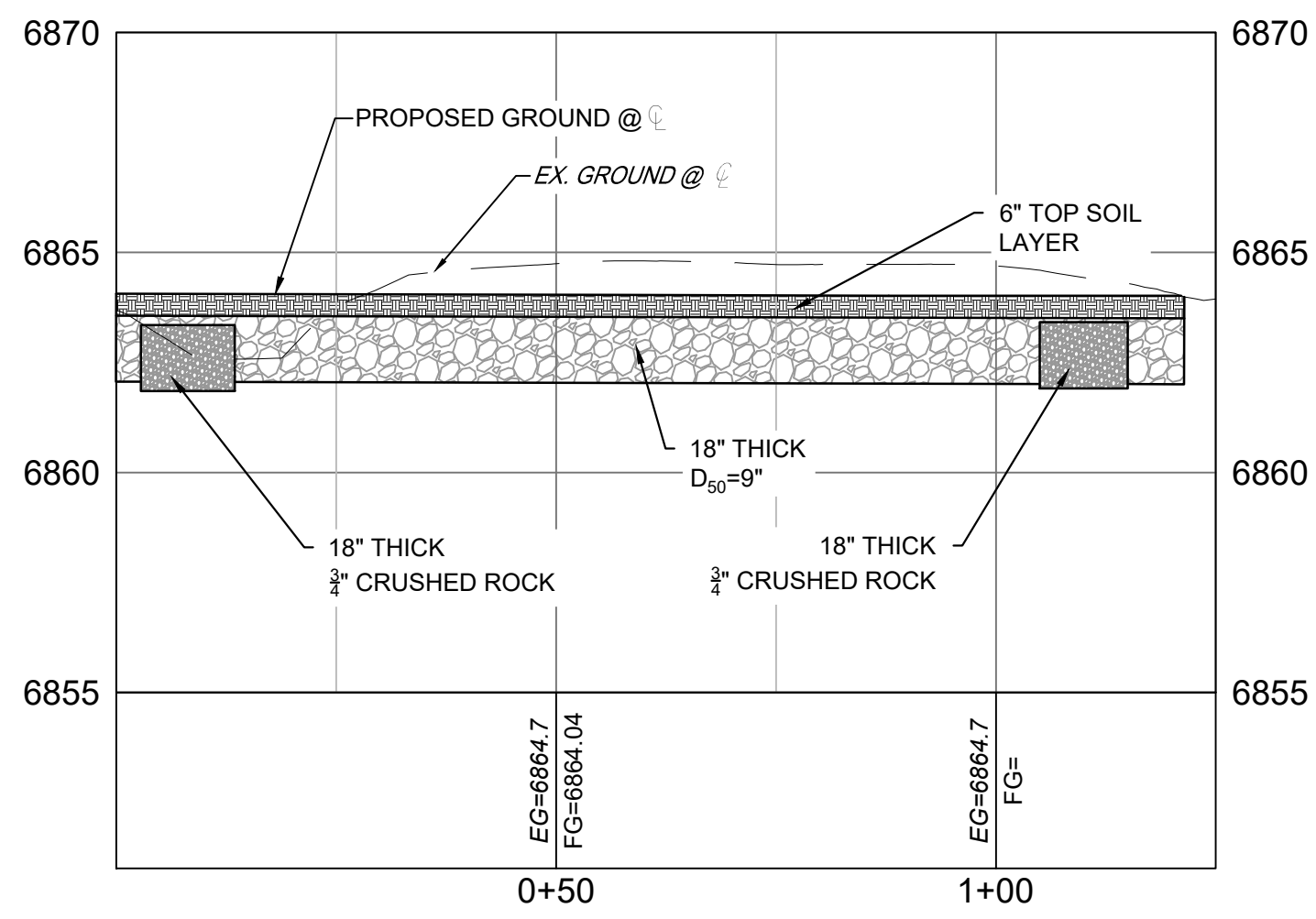
STILLING BASIN PLAN
H: 1" = 20'



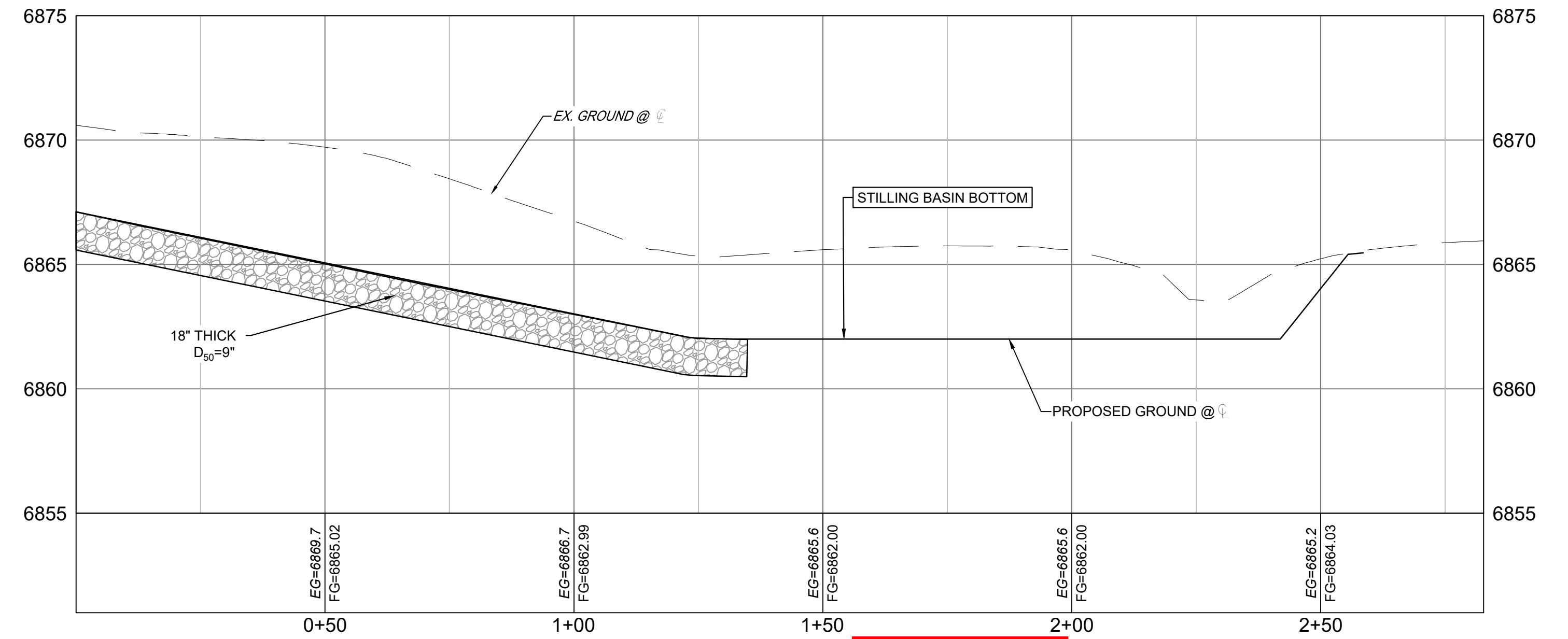
SECTION S
H: 1"=20'
V: 1"=4'



SECTION T
H: 1"=20'
V: 1"=4'



SECTION V
H: 1"=20'
V: 1"=4'



SECTION U
H: 1"=20'
V: 1"=4'

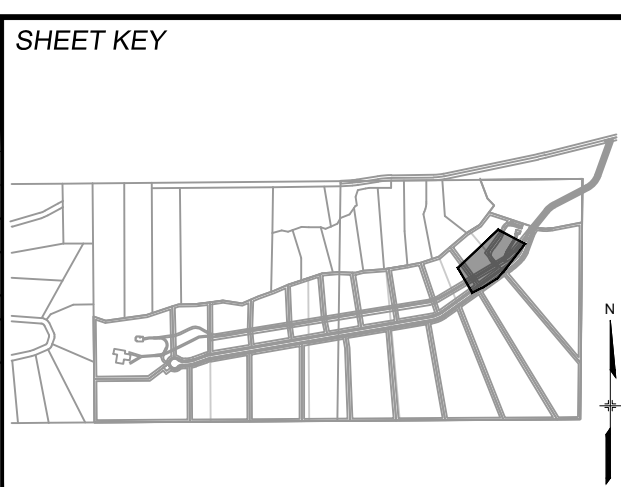
The signatures and stamp will be provided upon general acceptance.

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Please remove

Please remove

No.	DATE	DESCRIPTION	BY
COMPUTER FILE MANAGEMENT			
FILE NAME: S:\22.886.076 Hay Creek-Forest Manor-O'Leary Properties\500 CADD\504 Plan Sets\Construction Plans\Pond Plans\DF02.dwg			
CTB FILE: Matrix.ctb			
PLOT DATE: 9/22/2023 2:49 PM			
THIS DRAWING IS CURRENT AS OF PLOT DATE AND MAY BE SUBJECT TO CHANGE.			



BENCHMARK
PROJECT ELEVATIONS ARE NAVD 88 ELEVATIONS BASED ON AN OPUS DERIVED ELEVATION ON CONTROL POINT 10, A NO. 5 REBAR HAVING AN ELEVATION OF 5769.92.

BASIS OF BEARING
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PREPARED BY:
Matrix
Excellence by Design

PRELIMINARY
THIS DRAWING HAS NOT BEEN APPROVED BY GOVERNING AGENCIES AND IS SUBJECT TO CHANGE

HAY CREEK VALLEY
EL PASO COUNTY, COLORADO
100% CONSTRUCTION DOCUMENTS

STILLING BASIN DETAILS

DESIGNED BY: WCG	SCALE: 1"=20'	DATE ISSUED: SEPTEMBER 2023	DRAWING No. DF05
DRAWN BY: RWO	HORIZ: 1"=20'	SHEET: 23 OF 24	
CHECKED BY: JAO	VERT: N/A		