

BULLARD, ABBY: 12/22/2023 12:04 PM

HR GREEN Xref: EPC_CD_Owner_Approval_EPC_CD_Eng_Approval_EPC_CD_Notes_xref-1.dwg(1:2179; legal_description; Abbreviations; Legend; Vicinity_map; xc-dgn; xc-cow; xv-dgn; xv-cow; xv-ull; rwy; Typicals; Cover; contacts; signage key

LEGAL DESCRIPTION:

TRACTS 2 AND 3 OF THE GRAND VIEW SUBDIVISION EPC PARCEL NO. 330000466 AND 330000467

BENCHMARK

1/2"x24" REBAR W/PLS38374 CAP SET

BASIS OF BEARING

THE SOUTH LINE OF SECTION 33, TOWNSHIP 13 SOUTH, RANGE 65 WEST, MONUMENTED AS SHOWN AND ASSUMED TO BEAR NORTH 89 DEGREES 29 MINUTES 18 SECONDS WEST, 583.72 FEET

EL PASO COUNTY STANDARD CONSTRUCTION NOTES:

- ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC)
- CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
 - EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - CDOT M & S STANDARDS
- NOT WITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
- CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
- ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
- CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
- SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY AND MUTCD CRITERIA.
- CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
- THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

PROJECT CONTACTS

OWNER
OGC RE2, LLC
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COLORADO SPRINGS, CO 80901
TELE: (719) 445-5050
ATTN: KEVIN O'NEIL
EMAIL: INFO@THEONEILGROUP.COM

DEVELOPER
OGC RE2, LLC
PO BOX 1385
COLORADO SPRINGS, CO 80901
TELE: (719) 445-5050
ATTN: KEVIN O'NEIL
EMAIL: INFO@THEONEILGROUP.COM

APPLICANT
HR GREEN
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ATTN: COLLEEN MONAHAN, P.E., LEED AP
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CIVIL ENGINEER
HR GREEN
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AGENCY
EL PASO COUNTY PCD ENGINEERING DIVISION
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COLORADO SPRINGS, CO 80910
TELE: (719) 634-3751
ATTN: KARI PARSONS
EMAIL: -

SERVICE PROVIDER
ELLCOTT FIRE PROTECTION DISTRICT
75 N ELLICOTT HWY
CALHAN, CO 80908
TELE: (719) 683-7211
ATTN: -
EMAIL: -

SURVEYOR
SMH CONSULTANTS
411 TEJON ST #1
COLORADO SPRINGS, CO 80903
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ATTN: TIM SLOAN, PLS
EMAIL: TIM@SMHCONSULTANTS.COM

DRAWN BY: AXB JOB DATE: 11/2/2023
APPROVED: CPM JOB NUMBER: 2202179
CAD DATE: 12/22/2023
CAD FILE: J:\2022\2202179\CAD\DWGsl\Cover

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JOYFUL VIEW SUBDIVISION
OGC RE2, LLC.
EL PASO COUNTY, CO

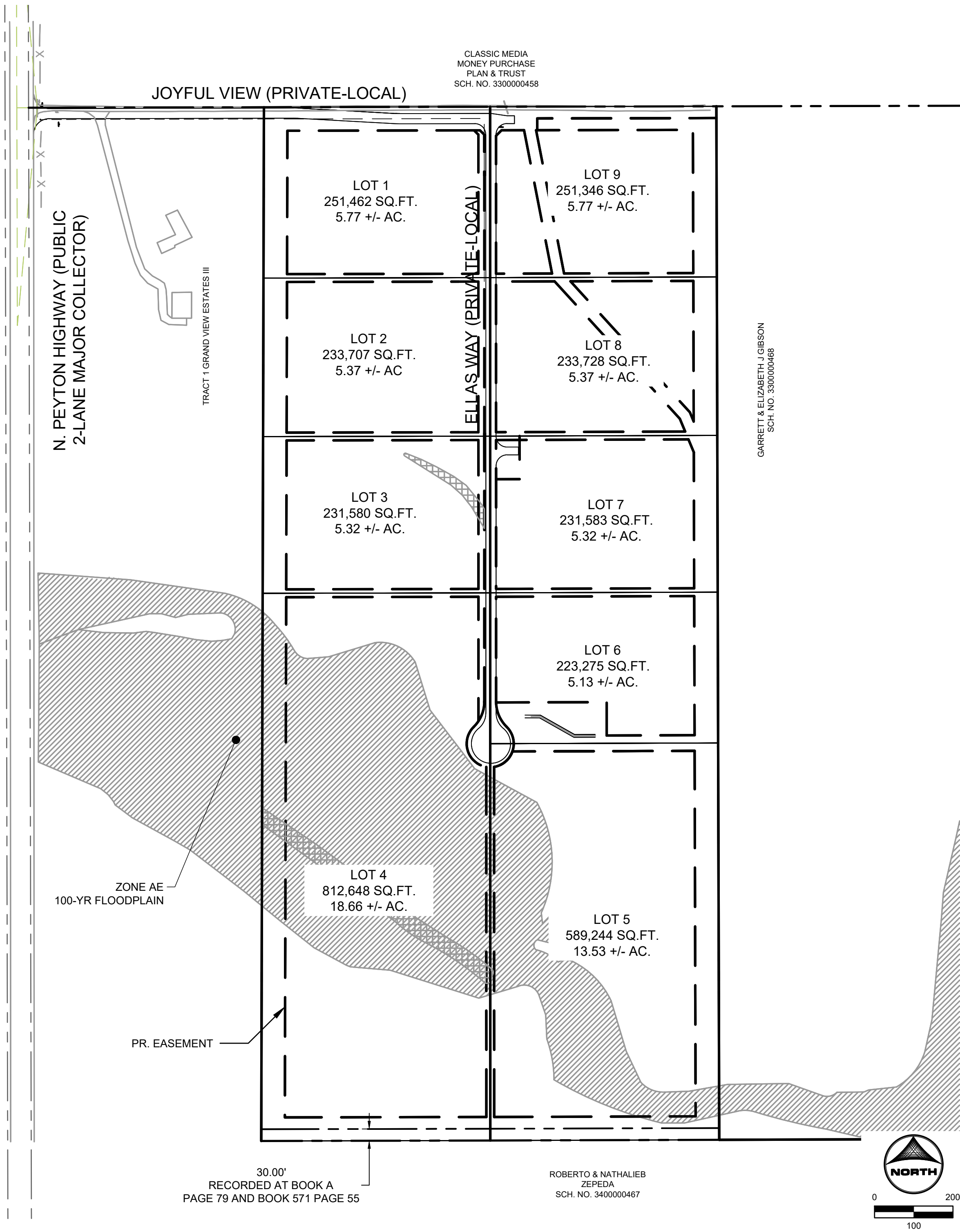
CONSTRUCTION DOCUMENTS
COVER

SHEET
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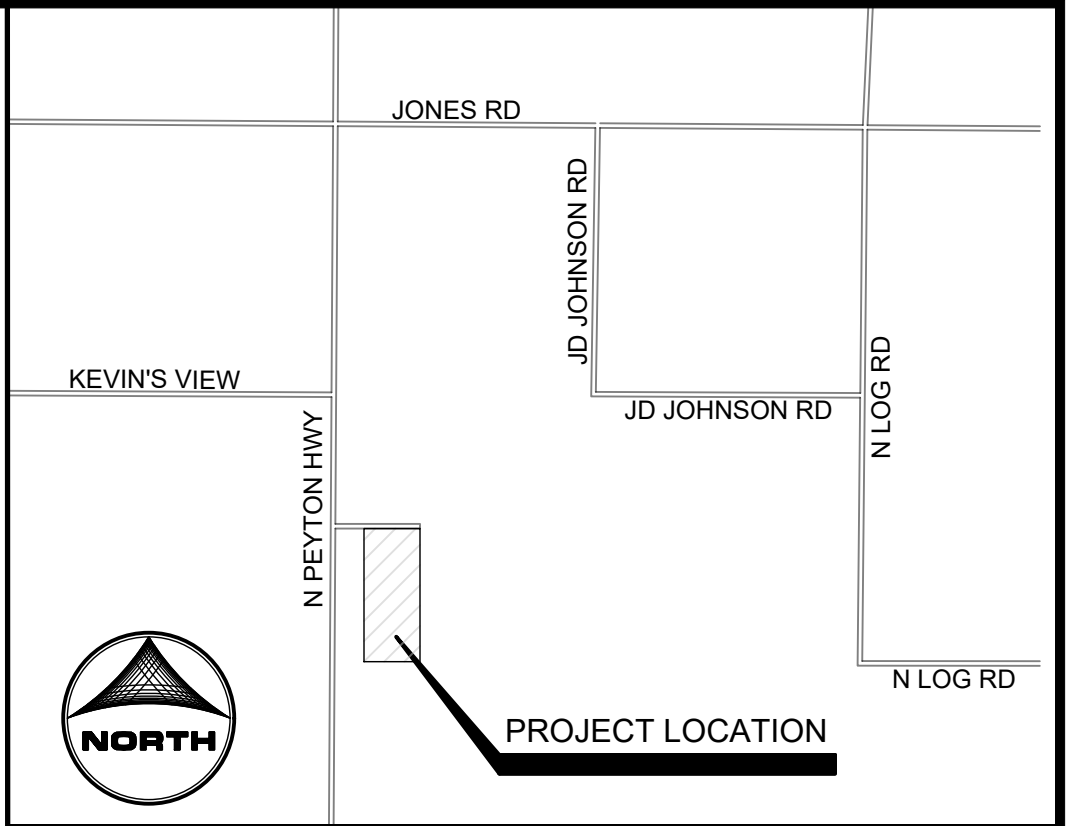
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JOYFUL VIEW SUBDIVISION CONSTRUCTION DOCUMENTS

A PART OF SECTION 33, TOWNSHIP 13 SOUTH, RANGE 63 WEST OF THE
SIXTH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO



SITE MAP
SCALE: 1"=200'



VICINITY MAP
(NOT TO SCALE)

SHEET INDEX

- COVER
- LEGEND & TYPICAL SECTIONS
- JOYFUL VIEW ROAD
- ELLAS WAY
- ELLAS WAY CULDESAC
- SWALE #3 PLAN & PROFILE
- STORM PLAN & PROFILE
- PERMANENT CONTROL MEASURE PLAN
- DETAILS
- OUTLET STRUCTURE DETAILS
- FOREBAY DETAILS



DESIGN ENGINEER'S STATEMENT

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR DETAILED ROADWAY, DRAINAGE, GRADING AND EROSION CONTROL PLANS AND SPECIFICATIONS, AND SAID PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH APPLICABLE MASTER DRAINAGE PLANS AND MASTER TRANSPORTATION PLANS. SAID PLANS AND SPECIFICATIONS MEET THE PURPOSES FOR WHICH THE PARTICULAR ROADWAY AND DRAINAGE FACILITIES ARE DESIGNED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARATION OF THESE DETAILED PLANS AND SPECIFICATIONS.

Colleen Monahan 12/20/2023
COLLEEN MONAHAN, P.E., CO P.E. NO. 0056067 DATE

OWNER/DEVELOPER'S STATEMENT:

I, THE OWNER/DEVELOPER HAVE READ AND WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

KEVIN O'NEIL DATE
OGC RE2, LLC

EL PASO COUNTY

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

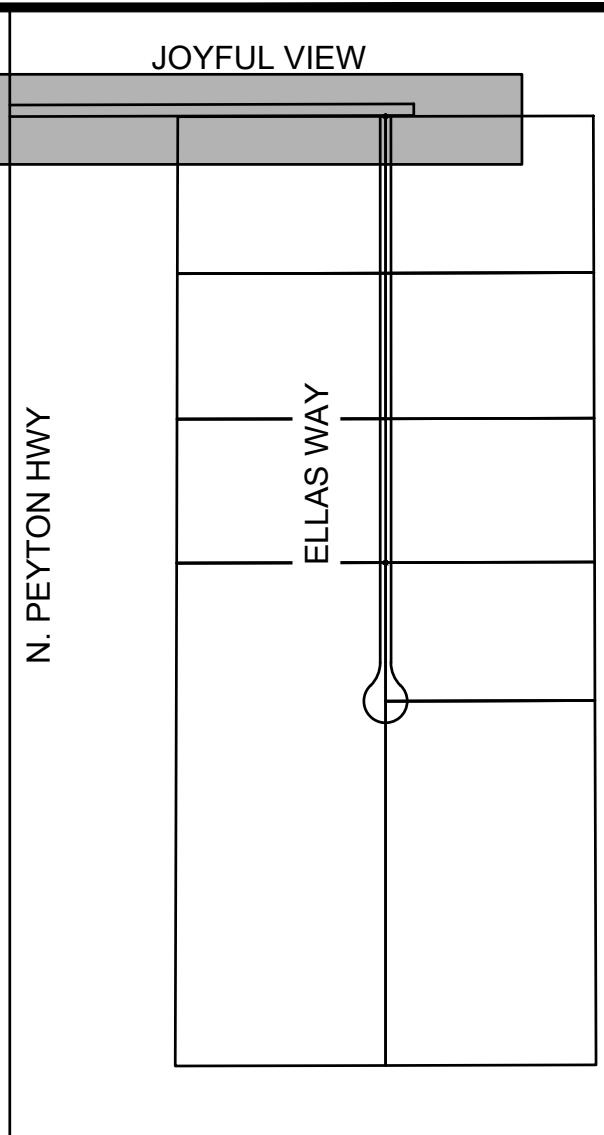
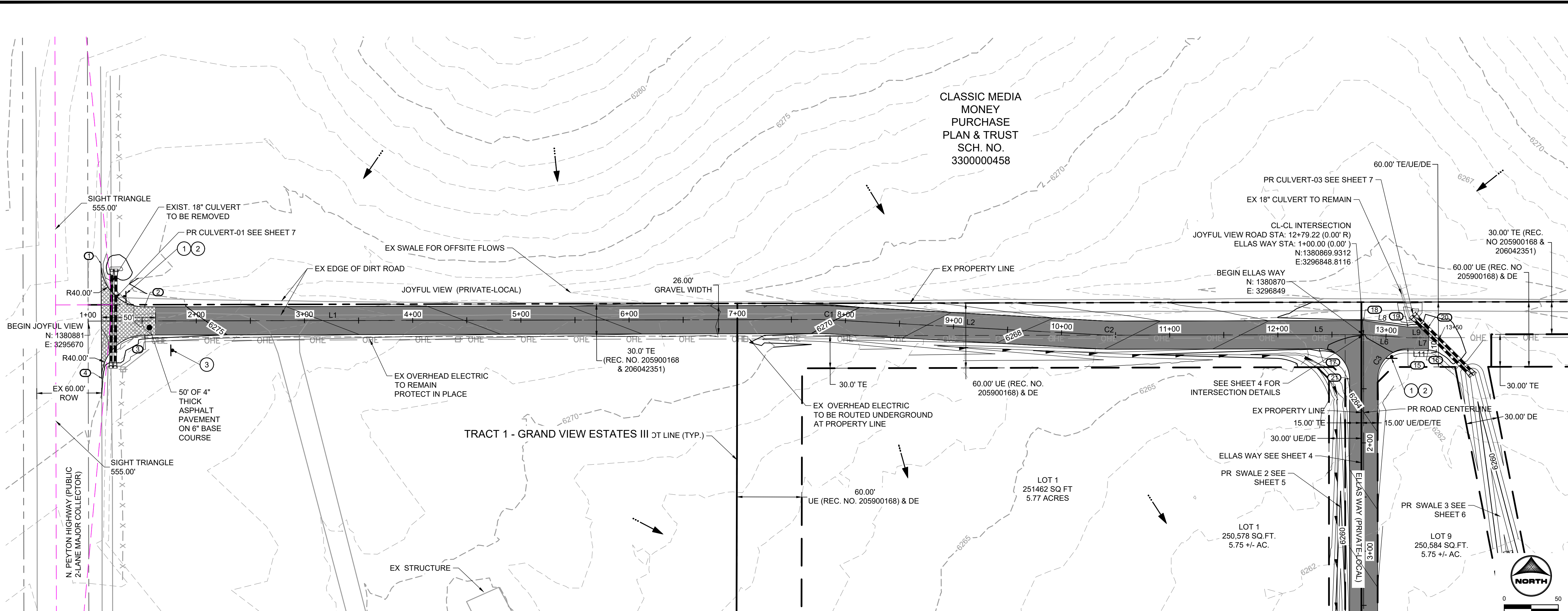
FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

IN ACCORDANCE WITH ECM SECTION 1.12, THESE CONSTRUCTION DOCUMENTS WILL BE VALID FOR CONSTRUCTION FOR A PERIOD OF 2 YEARS FROM THE DATE SIGNED BY THE EL PASO COUNTY ENGINEER. IF CONSTRUCTION HAS NOT STARTED WITHIN THOSE 2 YEARS, THE PLANS WILL NEED TO BE RESUBMITTED FOR APPROVAL, INCLUDING PAYMENT OF REVIEW FEES AT THE PLANNING AND COMMUNITY DEVELOPMENT DIRECTORS DISCRETION.

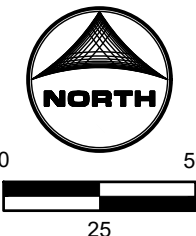
JOSHUA PALMER P.E. DATE
COUNTY ENGINEER

PCD FILING NO. SF2231

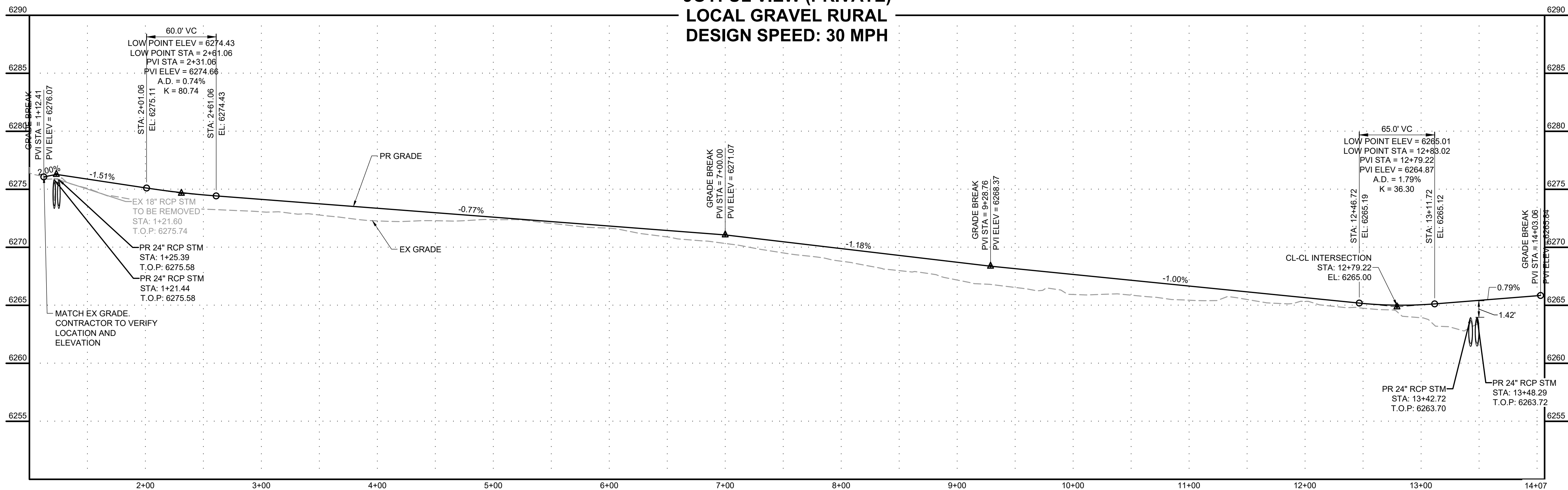
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KEY MAP
SCALE: N.T.S.



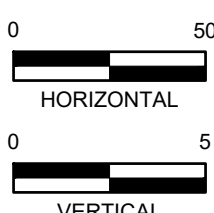
JOYFUL VIEW (PRIVATE)
LOCAL GRAVEL RURAL
DESIGN SPEED: 30 MPH



POINT TABLE				
No.	DESC.	ALIGNMENT	STATION & OFFSET	FL. EL.
1	MATCH EX ±	Joyful View Road	1+12.13 (-52.98' L)	6276.63
2	PT	Joyful View Road	1+52.13 (-13.00' L)	???
3	PT	Joyful View Road	1+52.39 (13.00' R)	???
4	MATCH EX ±	Joyful View Road	1+12.39 (52.92' R)	6275.22

Curve Table			
Curve #	Length	Radius	Delta
C1	11.54	200.00	3°18'22"
C2	11.54	200.00	3°18'22"
C3	43.92	28.00	89°52'44"

Line Table	
Line #	Direction
L1	600.12 N 89°52'44" E
L2	248.55 S 86°48'54" E
L5	230.06 N 89°52'44" E
L7	282.29 S 89°51'31" W
L8	41.36 S 81°46'45" E
L9	19.08 N 89°52'44" E
L10	20.00 S 0°07'16" E
L11	19.08 S 89°52'44" W



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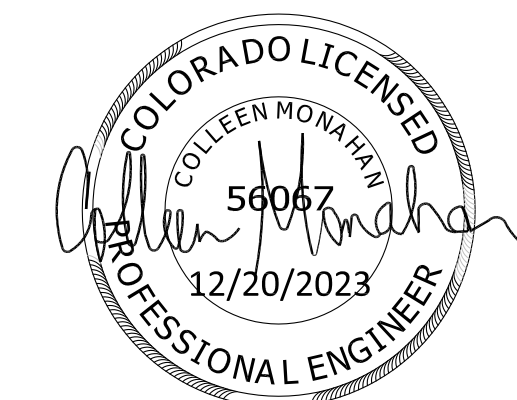
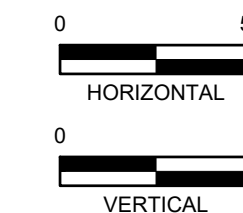
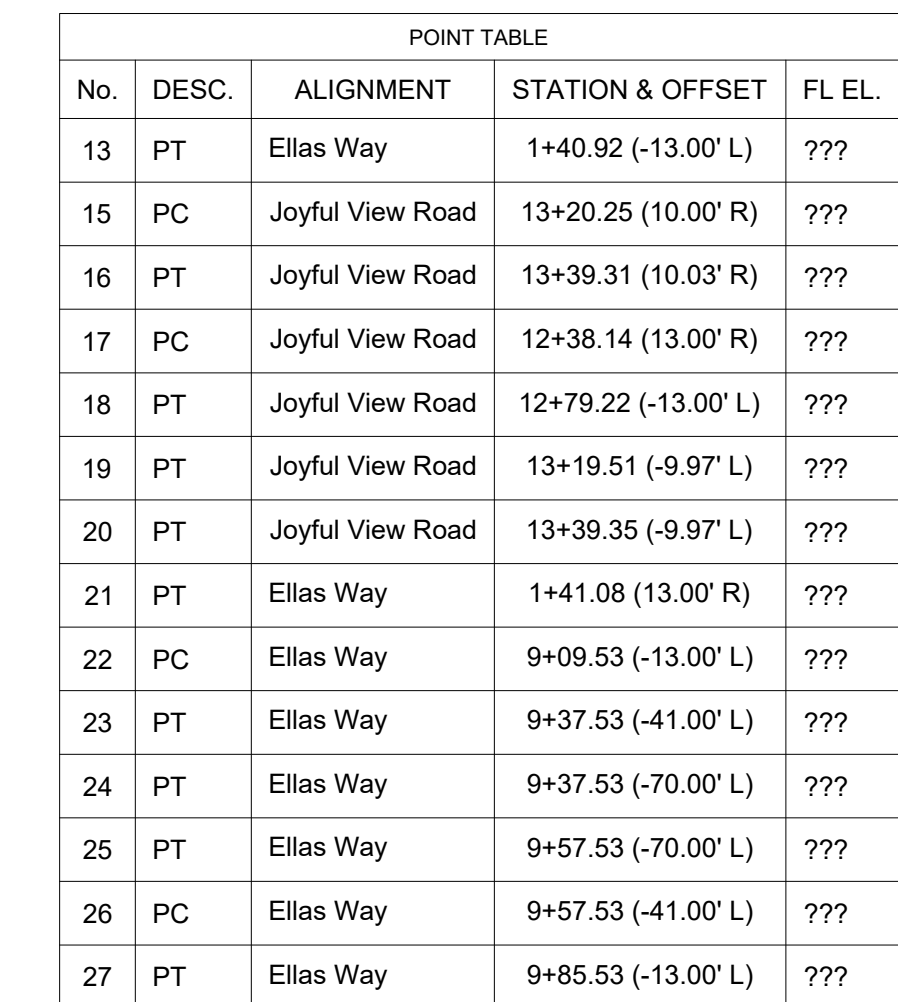
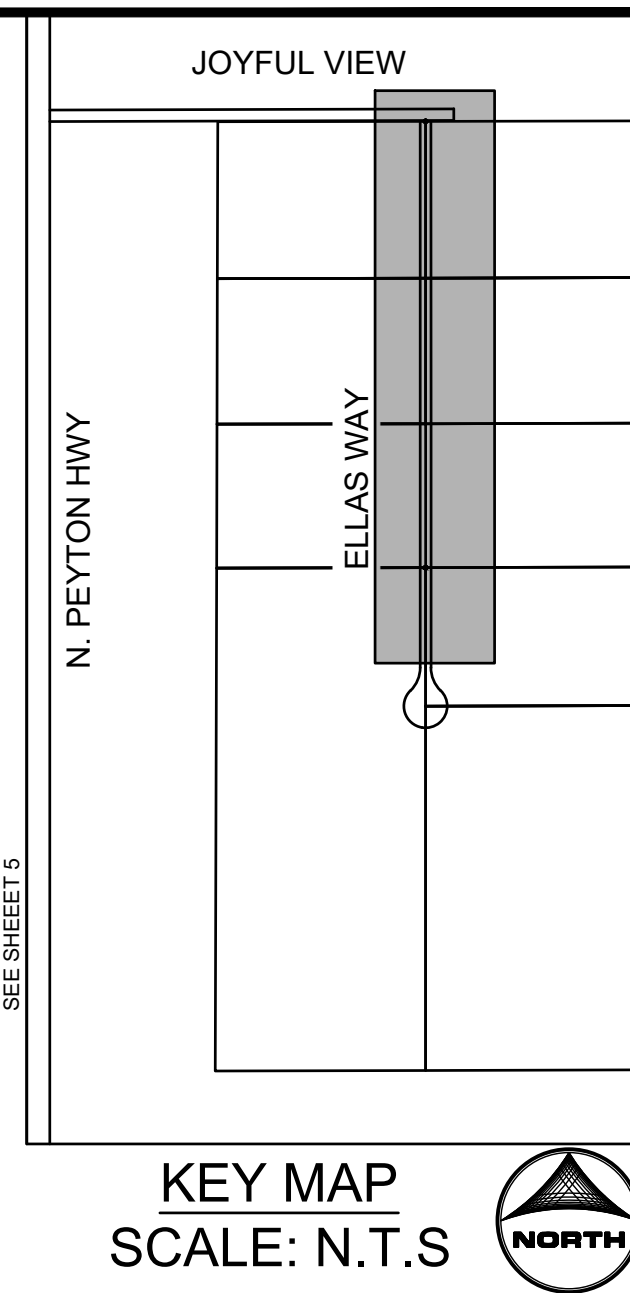
HR GREEN - COLORADO SPRINGS
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JOYFUL VIEW SUBDIVISION
OGC RE2, LLC.
EL PASO COUNTY, CO

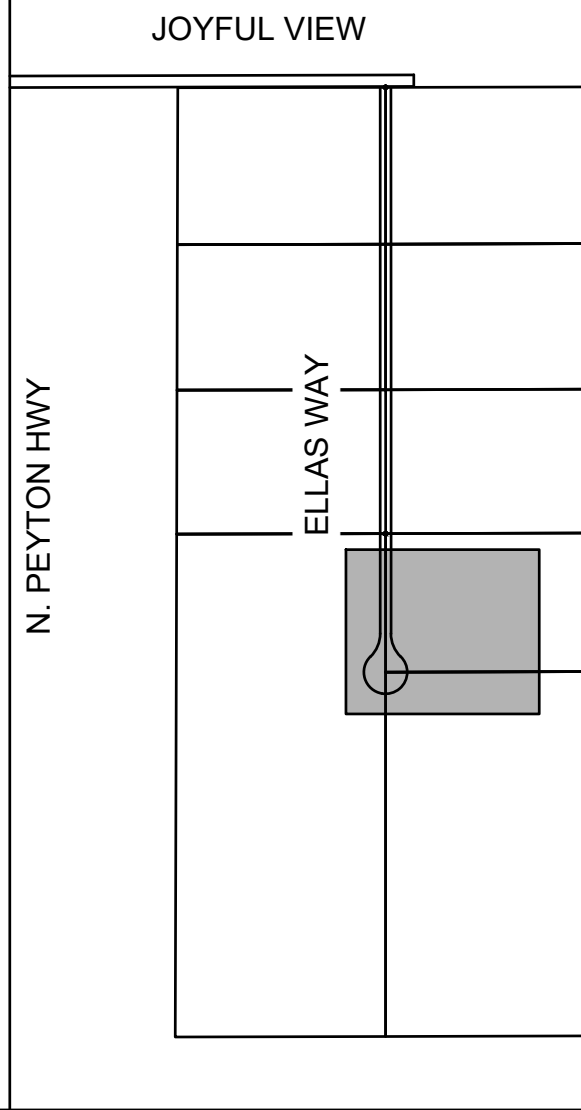
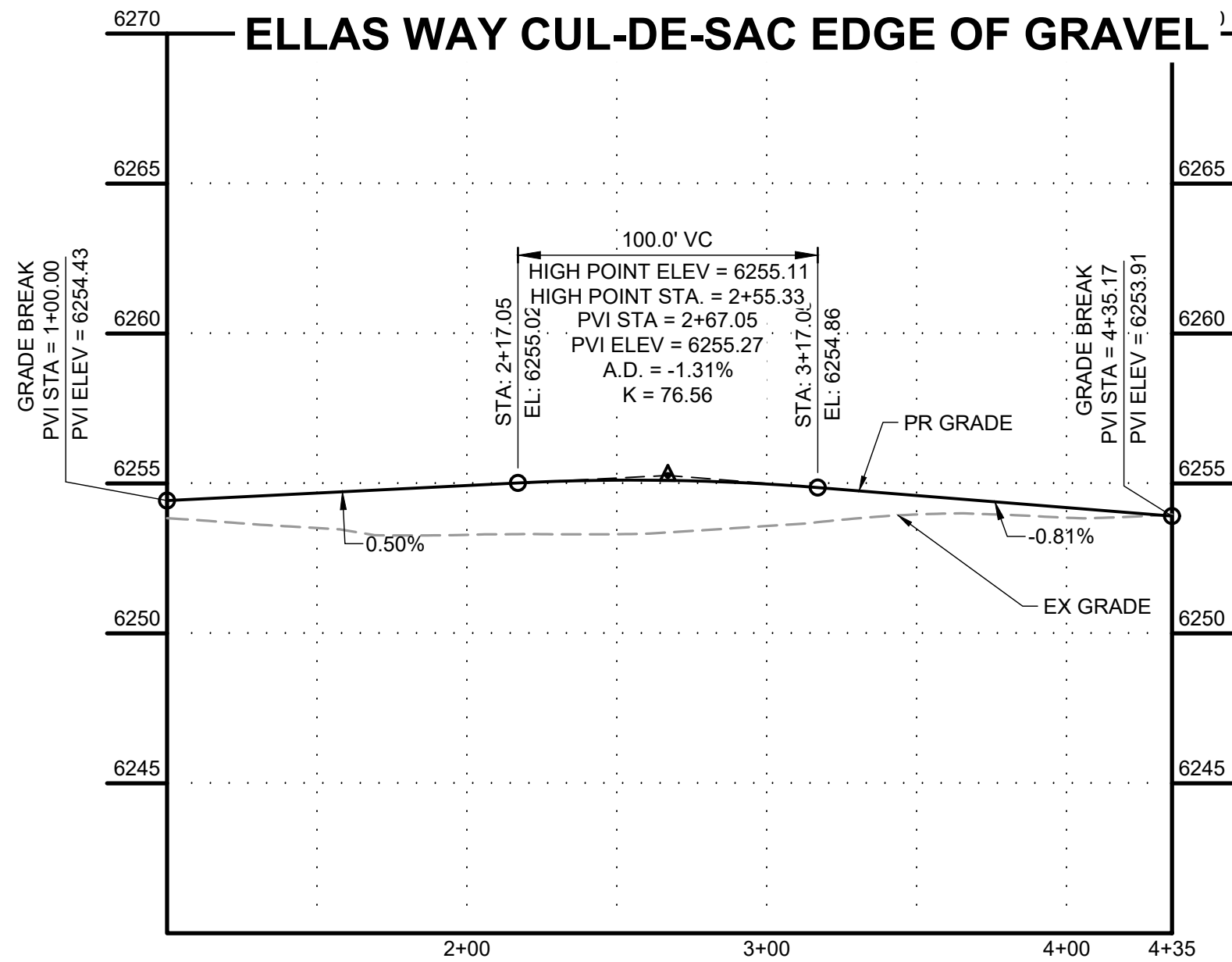
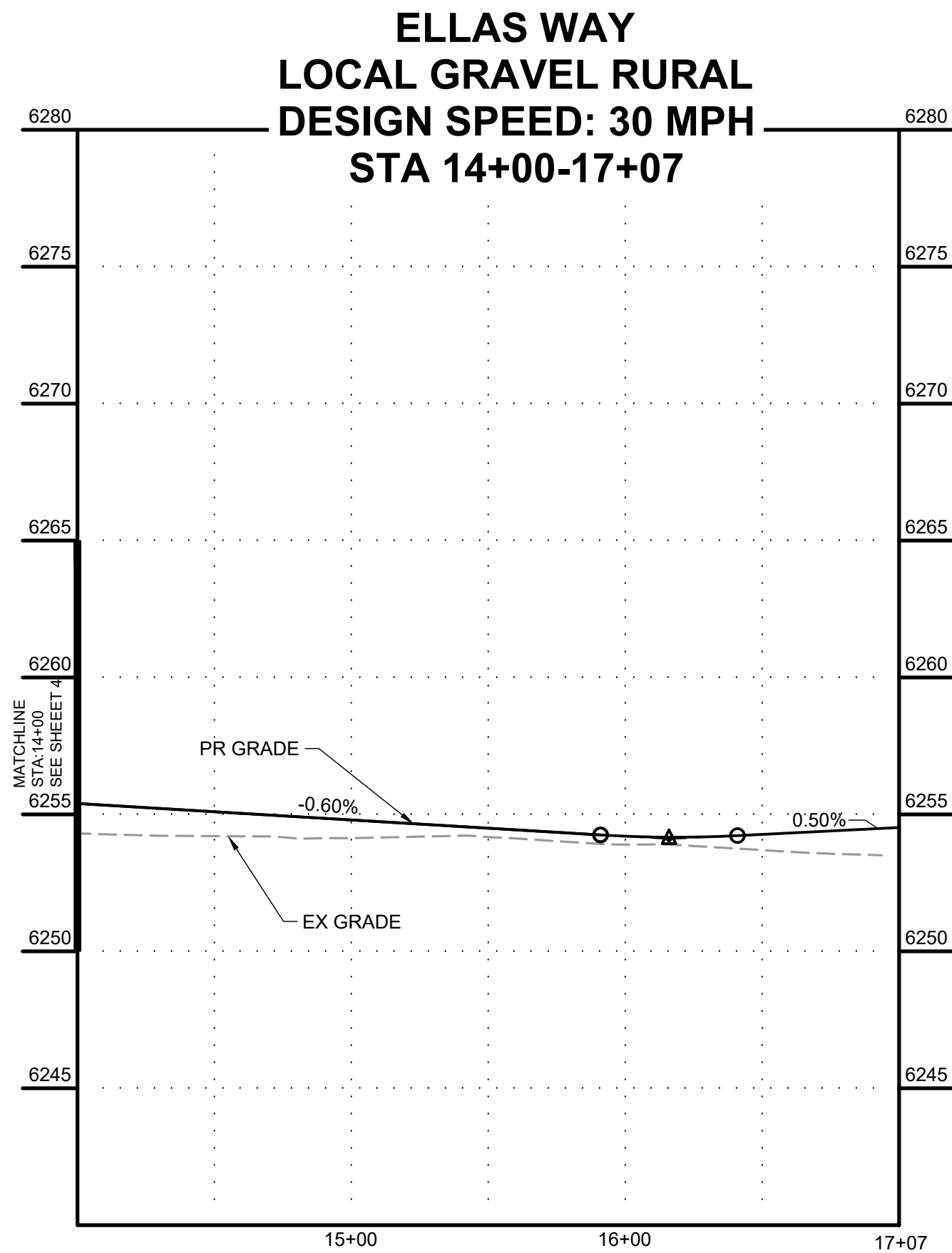
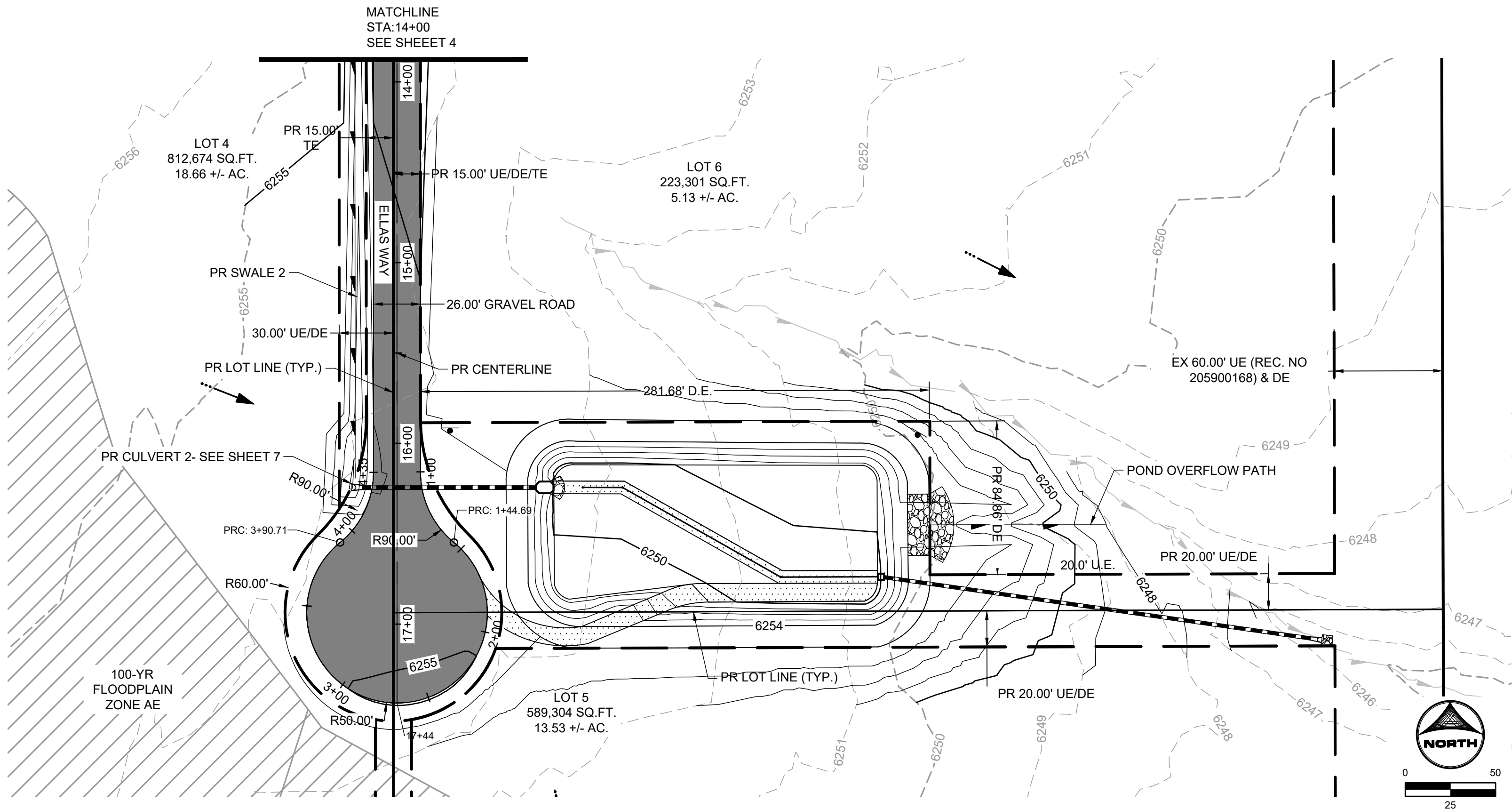
CONSTRUCTION DOCUMENTS
JOYFUL VIEW ROAD

SHEET
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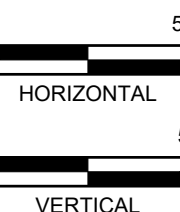
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SHEET ST	4
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KEY MAP
SCALE: N.T.S.



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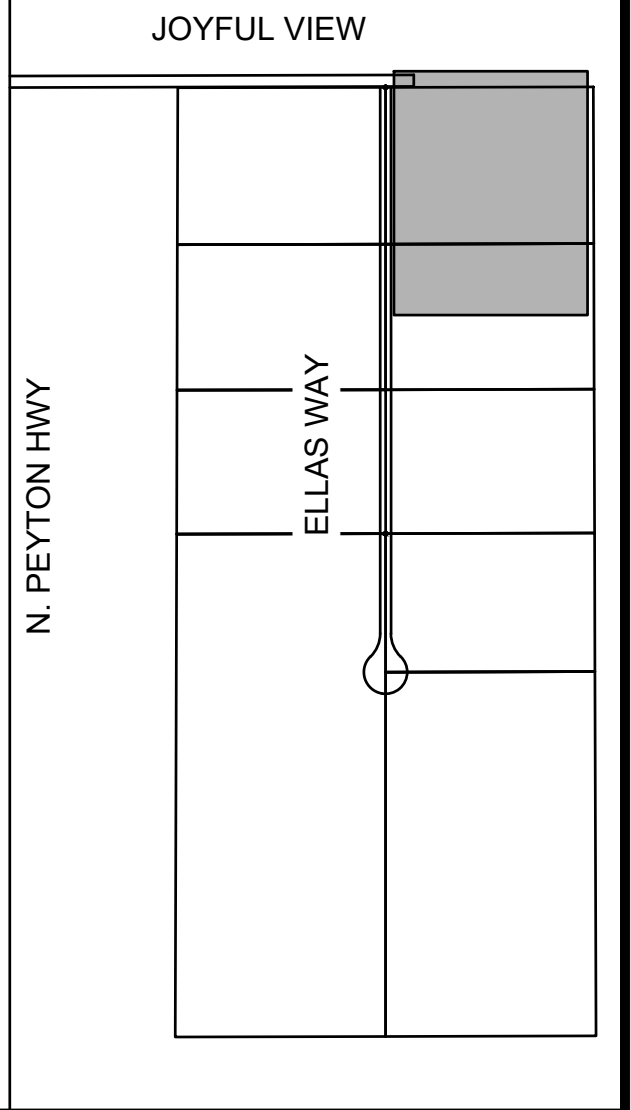
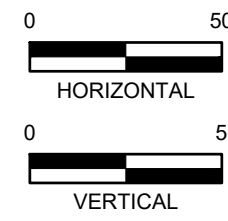
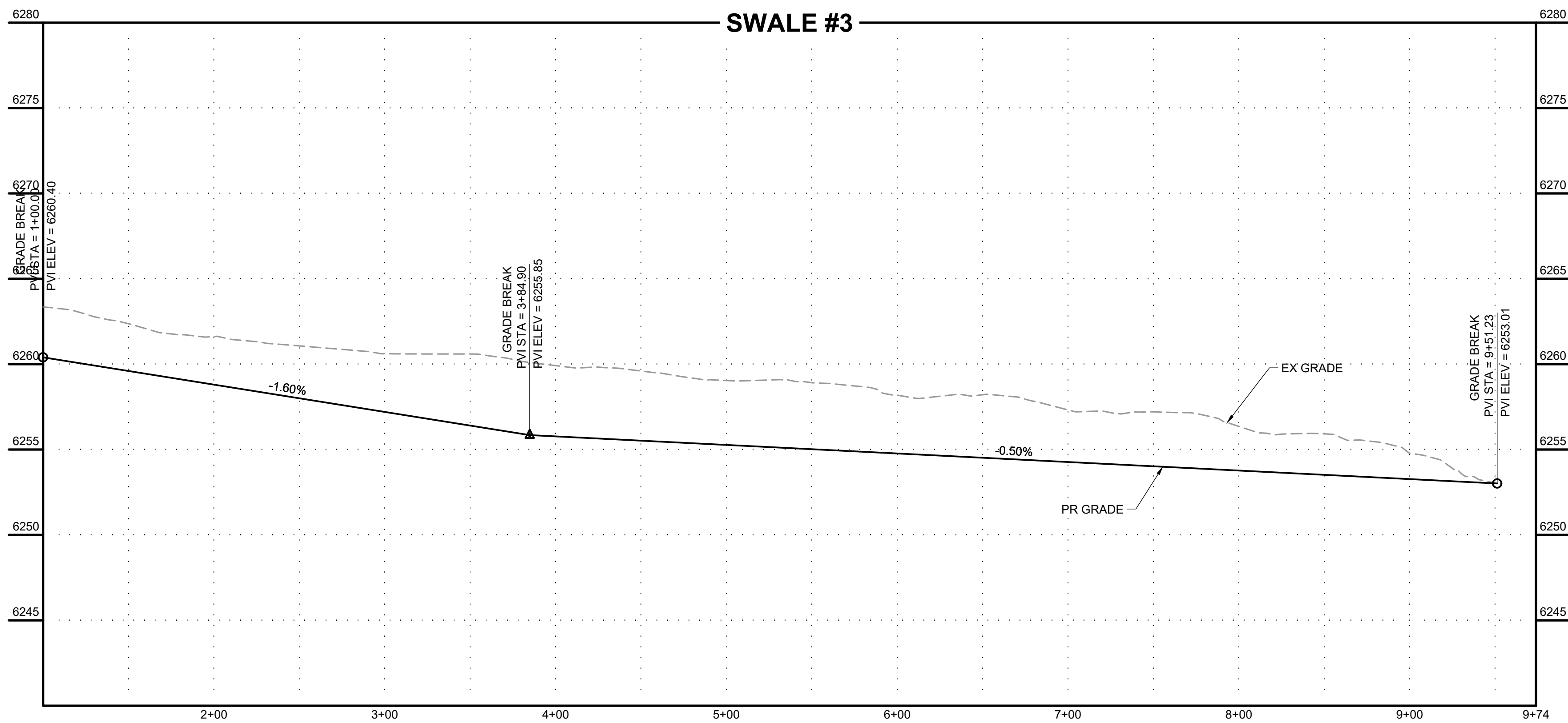
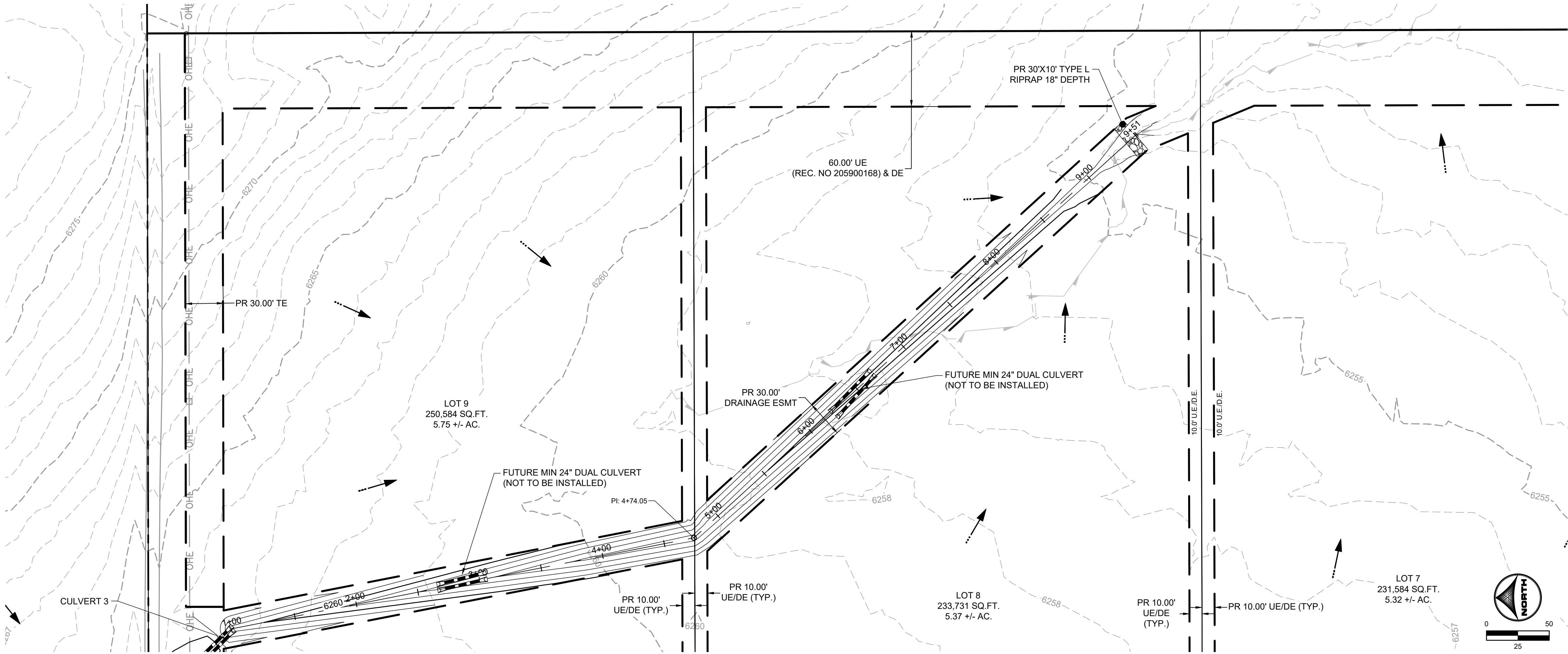
HR GREEN - COLORADO SPRINGS
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PHONE: 719.394.2440
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JOYFUL VIEW SUBDIVISION
OGC RE2, LLC.
EL PASO COUNTY, CO

CONSTRUCTION DOCUMENTS
ELLAS WAY CULDESAC

SHEET
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5



KEY MAP
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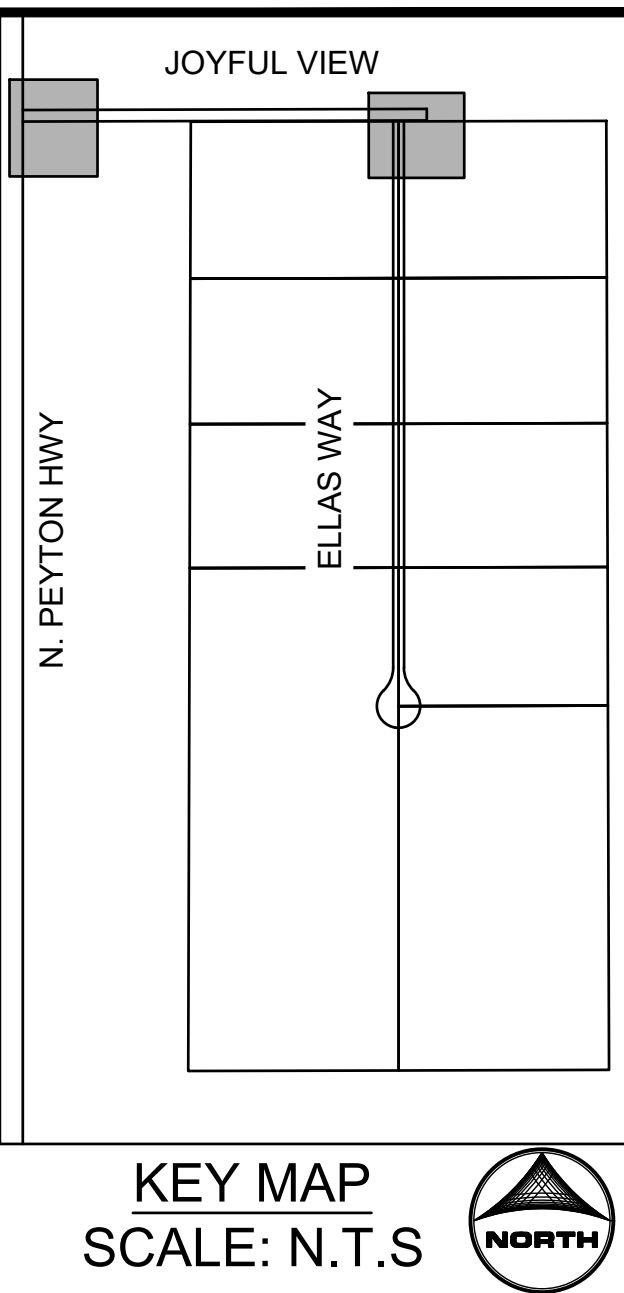
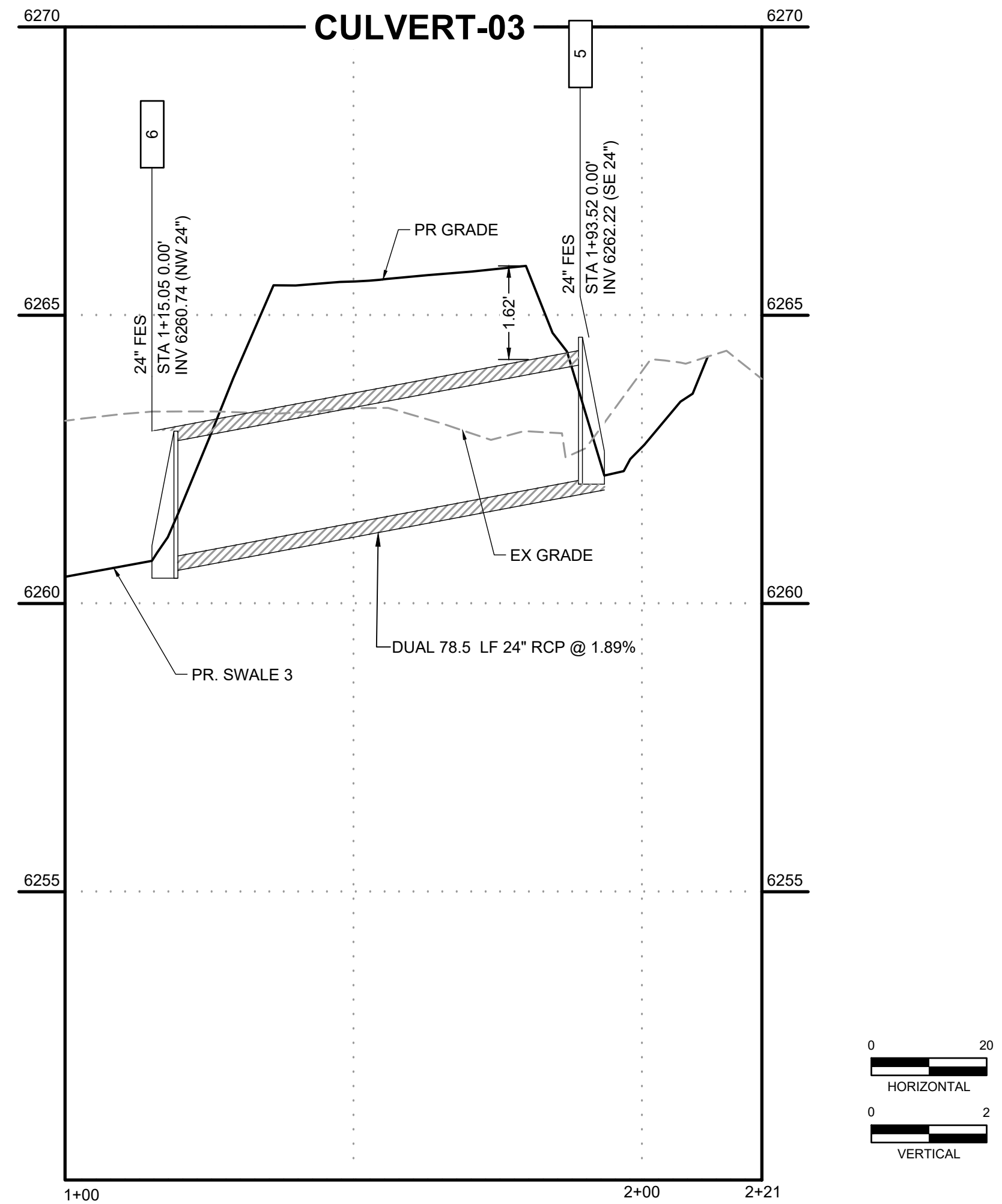
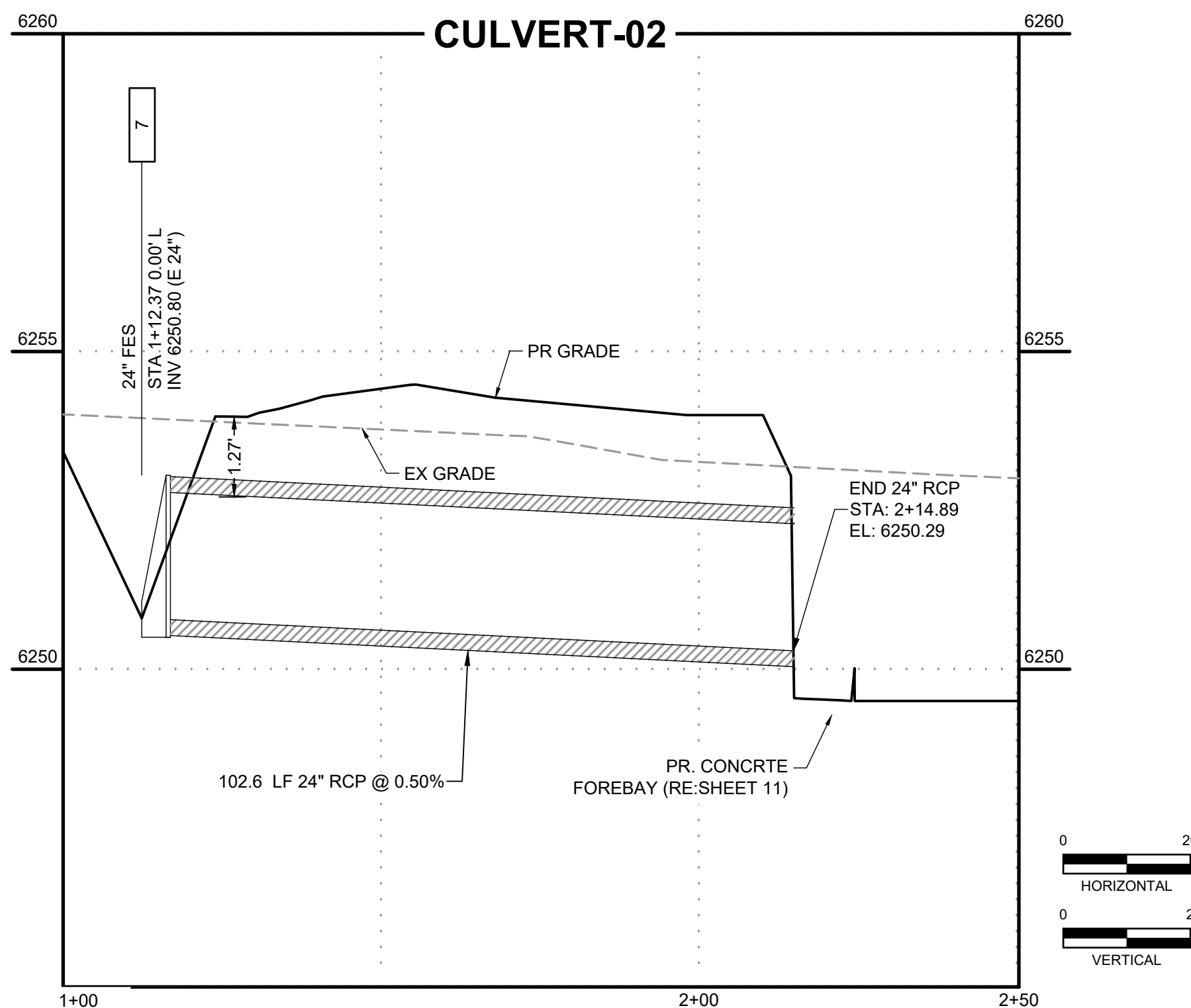
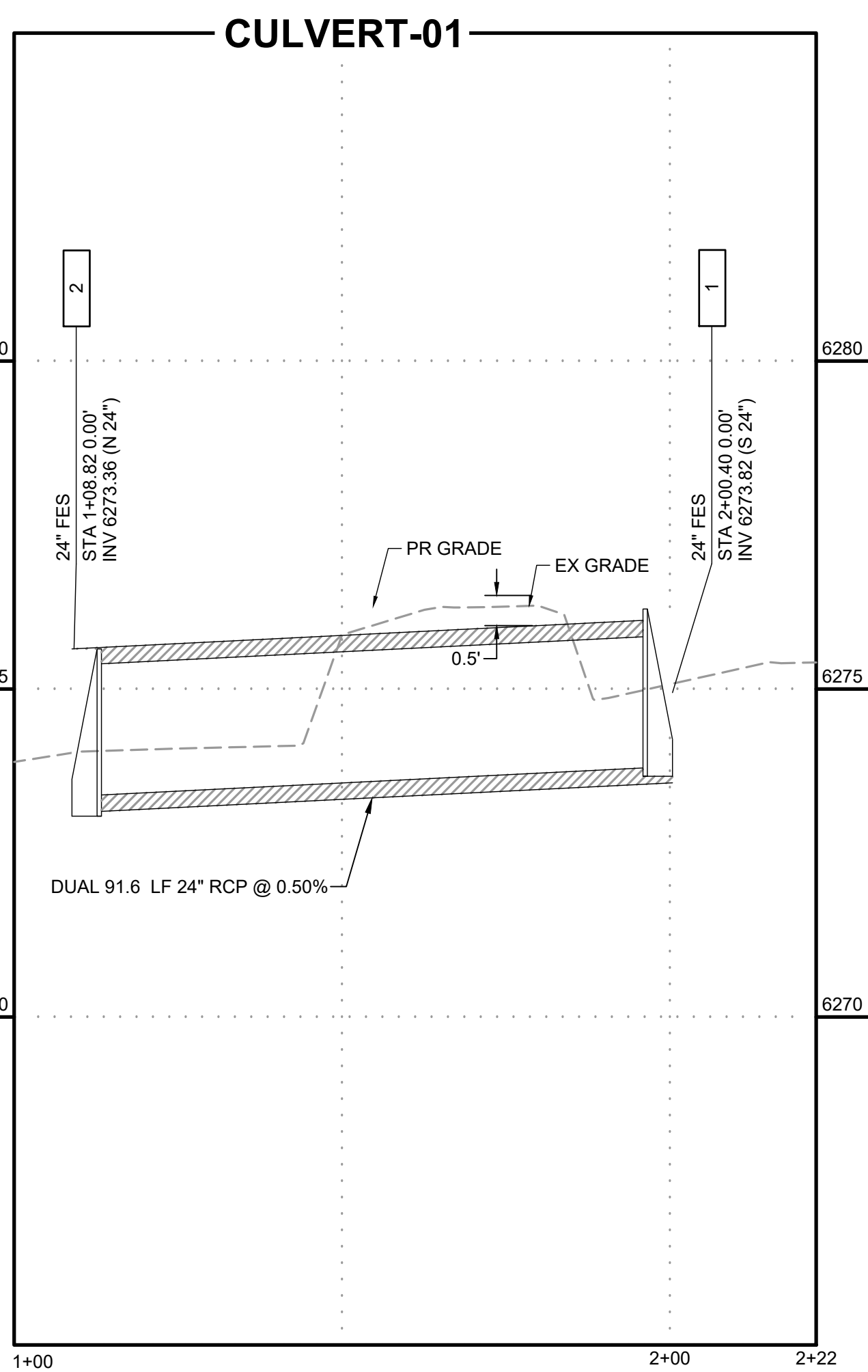
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JOYFUL VIEW SUBDIVISION
OGC RE2, LLC.
EL PASO COUNTY, CO

CONSTRUCTION DOCUMENTS
SWALE #3 PLAN & PROFILE

SHEET
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6



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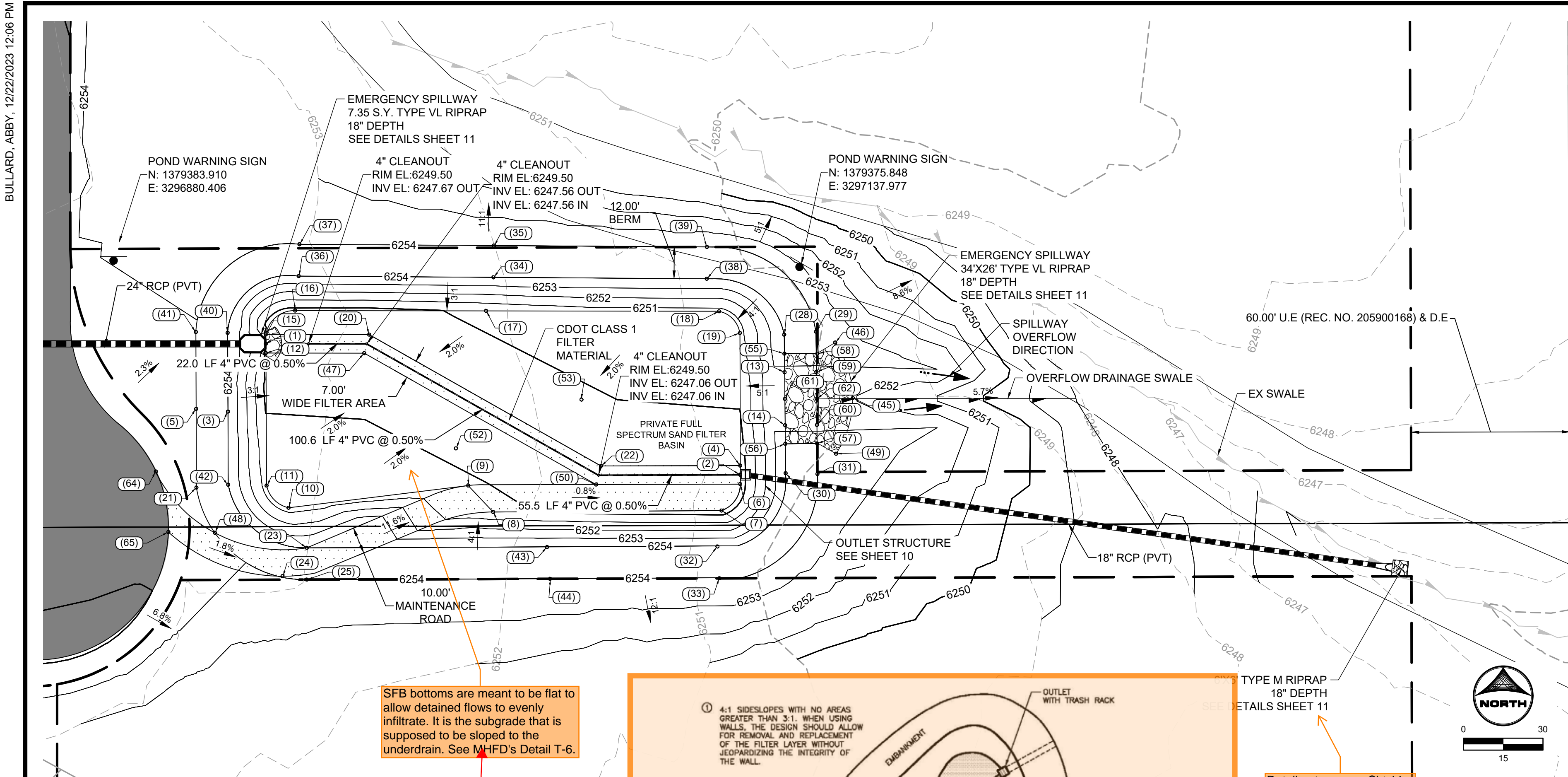
HRGreen
 HR GREEN - COLORADO SPRINGS
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JOYFUL VIEW SUBDIVISION
OGC RE2, LLC.
EL PASO COUNTY, CO

STORM PLAN & PROFILE

STORM PLAN & PROFILE

SHEET STM	7
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SFB bottoms are meant to be flat to allow detained flows to evenly infiltrate. It is the subgrade that is supposed to be sloped to the underdrain. See MHFD's Detail T-6.

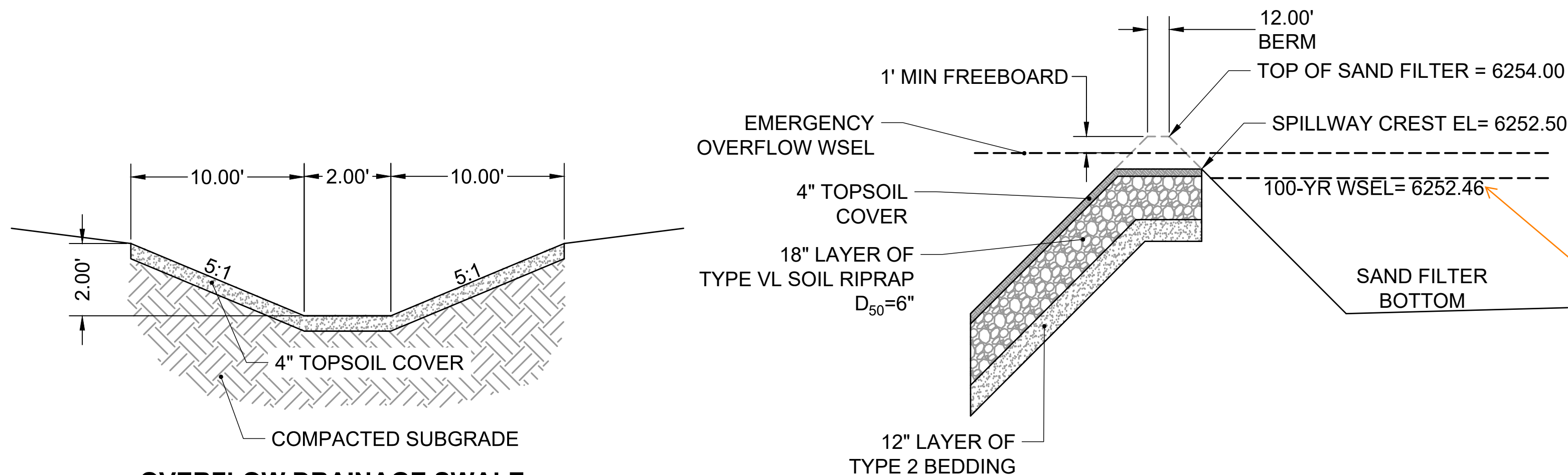
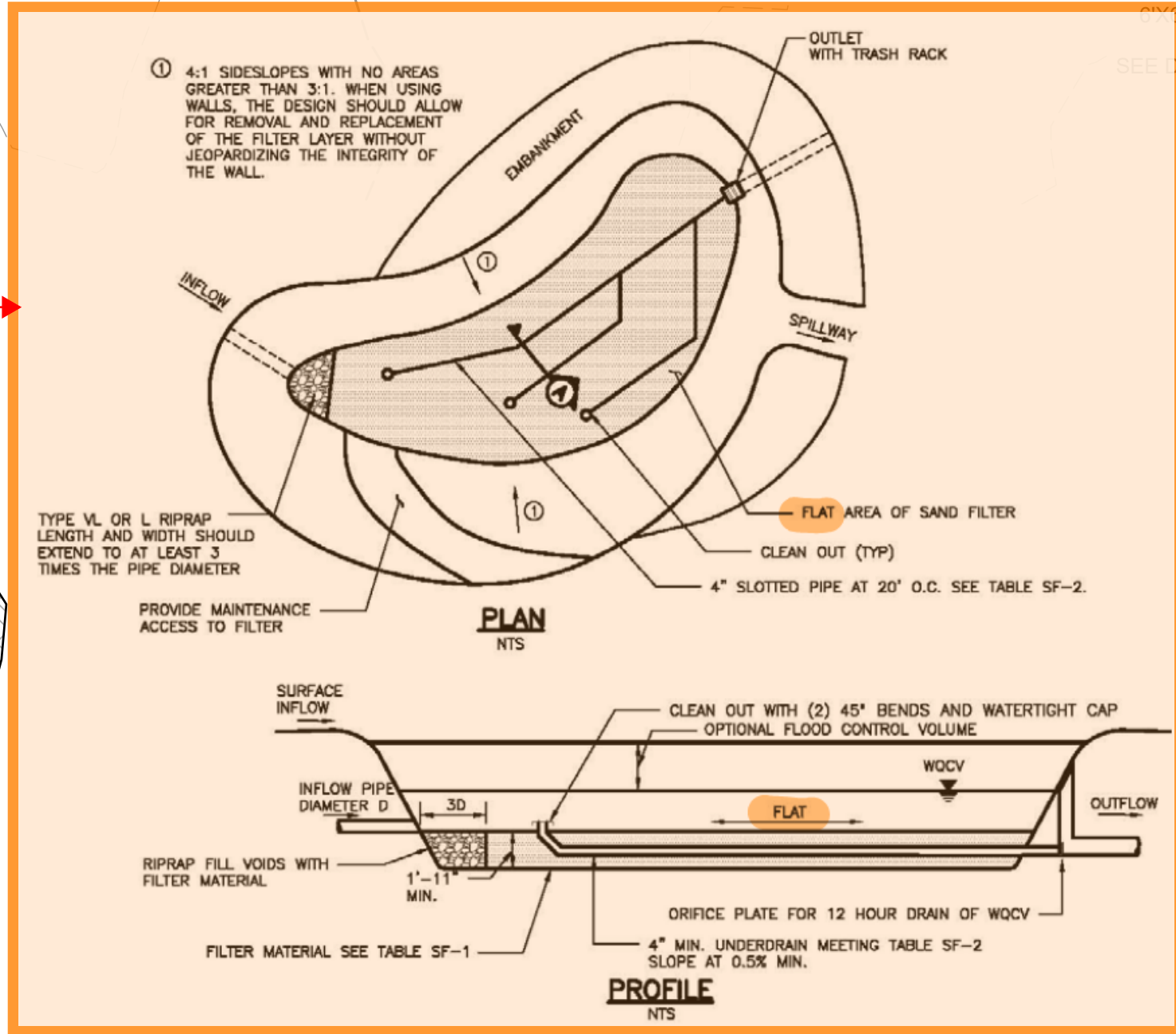
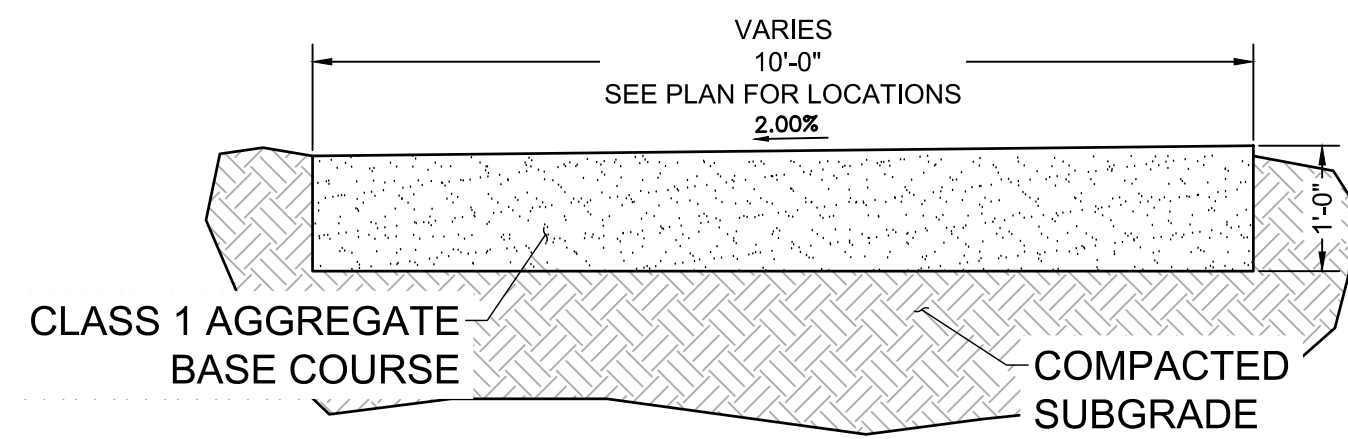
The minimum flat filter area at the SFB bottom has been provided. A call out for flat area and the quantity has been added.

Detail not seen on Sht 11

Riprap profile, gradation, and notes are provided in the top right of sheet 11.

Provide a detail/section showing the underdrain. See MHFD Detail T-6, except shown to the right. And also include a section like the one to the left that shows the underdrain coming above grade as solid pipe (not slotted like the rest of the underdrain) with (2) 45deg bends.

Additional details from MHFD T-6 have been provided on this sheet.



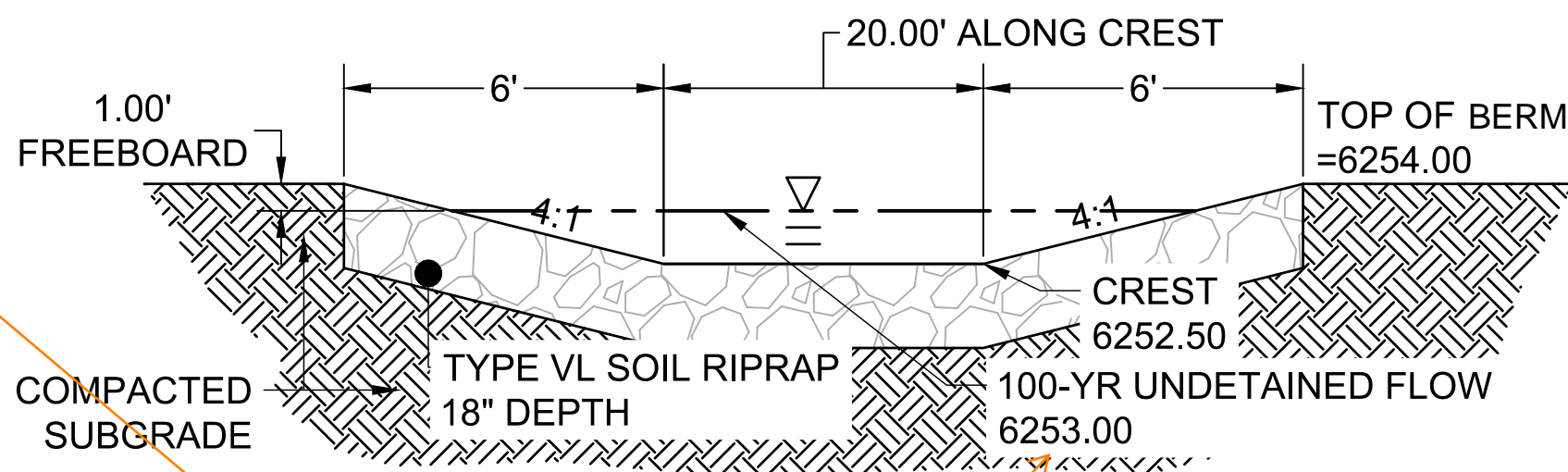
POND GRADING NOTES:

- TWO SIGNS OF MINIMUM 3 SQ. FT. AREA SHALL BE INSTALLED AROUND THE PERIMETER. THE SIGNS WILL BE CONSTRUCTED OF A DURABLE MATERIAL SUCH AS METAL OR PLASTIC AND HAVE RED LETTERING ON A WHITE BACKGROUND STATING, "WARNING- THIS AREA IS A STORMWATER FACILITY AND IS SUBJECT TO PERIODIC FLOODING."
- PET WASTE STATIONS SHALL BE INSTALLED AROUND THE POND WITH SIGNAGE STATING THAT PET WASTE MUST BE PICKED UP
- SEE GRADING & EROSION CONTROL PLANS FOR ANY EXISTING VEGETATION IN THE AREA. CLEARING AND GRUBBING WILL OCCUR PRIOR TO POND CONSTRUCTION AND THEREFORE, NO EXISTING VEGETATION WILL BE PRESENT.
- ALL RIPRAP MUST BE INSTALLED PER DETAIL ON SHEET 11

T.O.P. ~ TOP OF POND
T.O.B. ~ TOP OF BERM
T.O.S. ~ TOE OF SLOPE
T.C. ~ TRICKLE CHANNEL
T.B.C. ~ TOP BACK OF CURB
C.L. ~ CENTERLINE
E.O.G. ~ EDGE OF GRAVEL
WSEL ~ WATER SURFACE ELEVATION

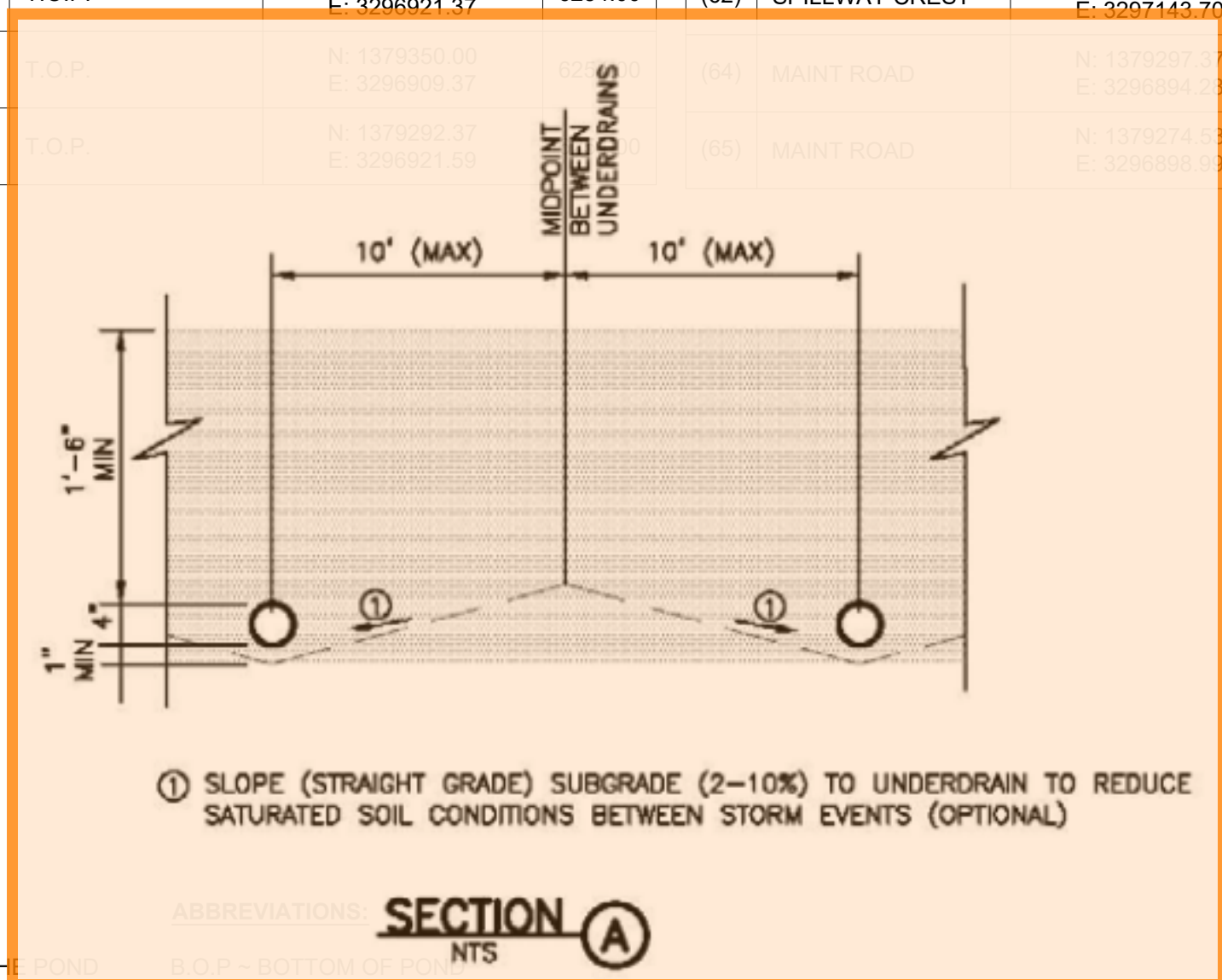
Detail not seen on Sht 11

Riprap profile, gradation, and notes are provided in the top right of sheet 11.



Should be 6252.48 per MHFD calcs on pg 47 of FDR

This value has been corrected to "6252.48" as is in the FDR. In the "Emergency Overflow Spillway" profile the value should be 6253.00. This is not the 100-yr WSEL in the SFB, but the 100-yr storm peak flow depth through the spillway crest (0.5' depth per the FDR).



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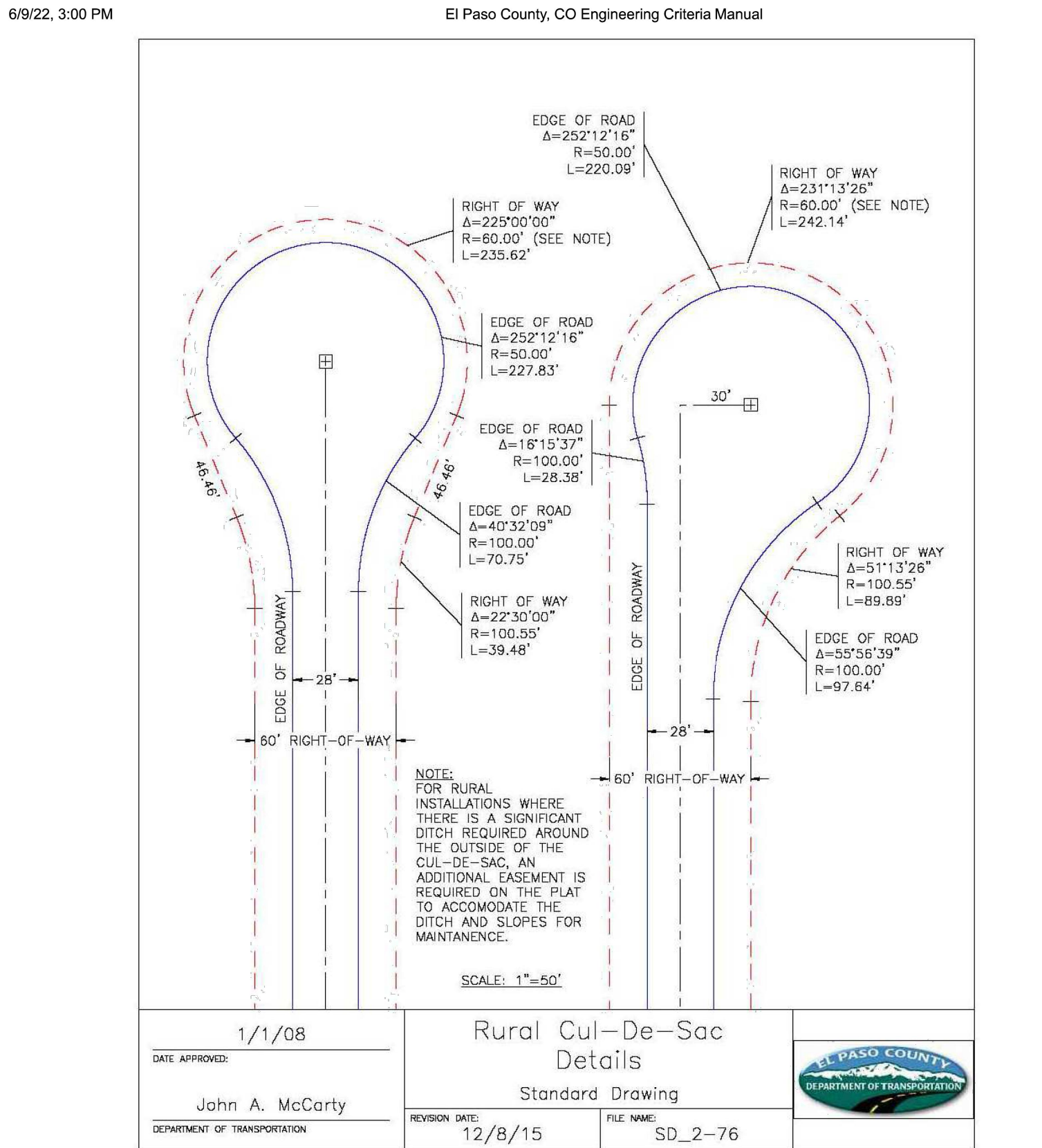
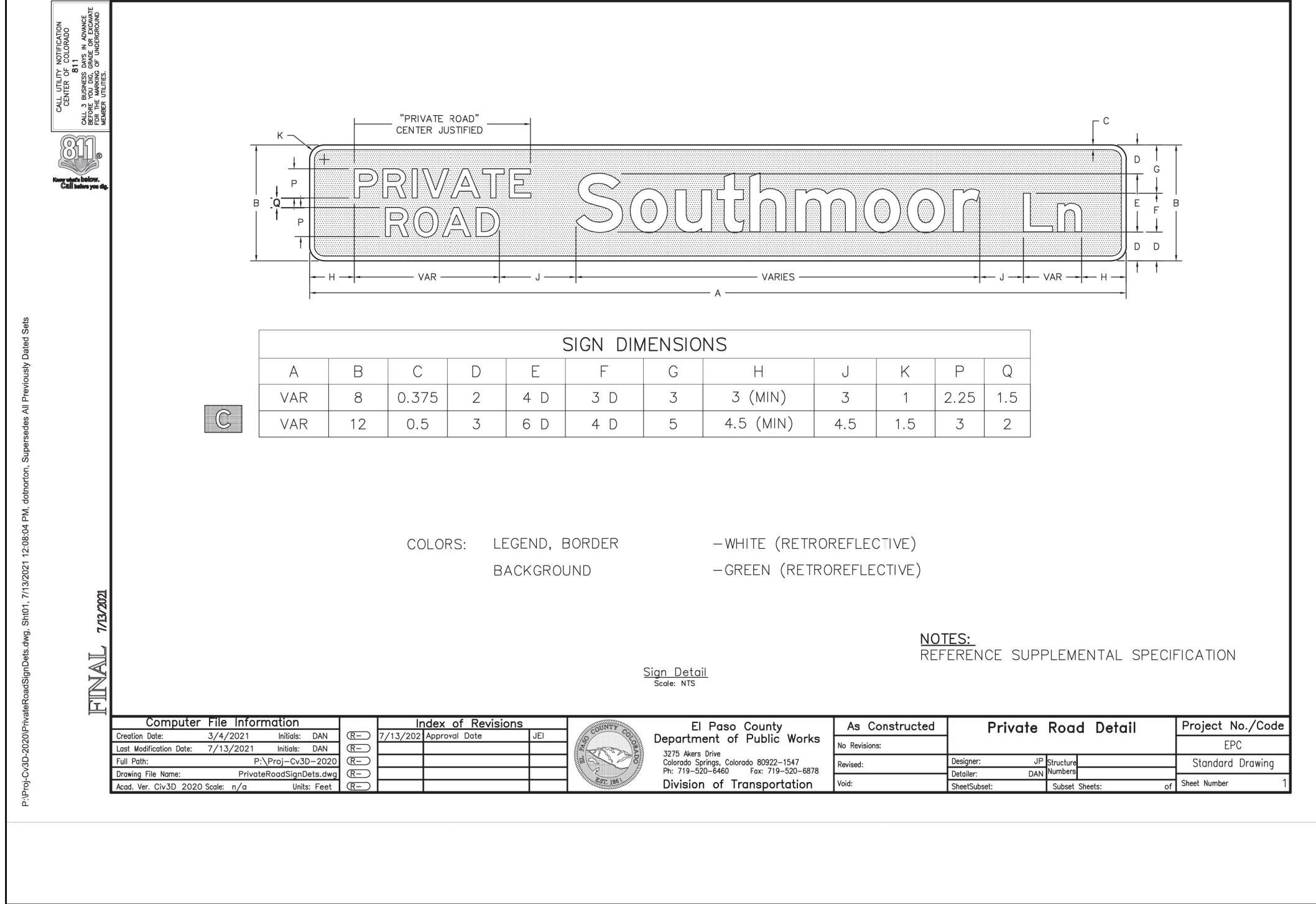
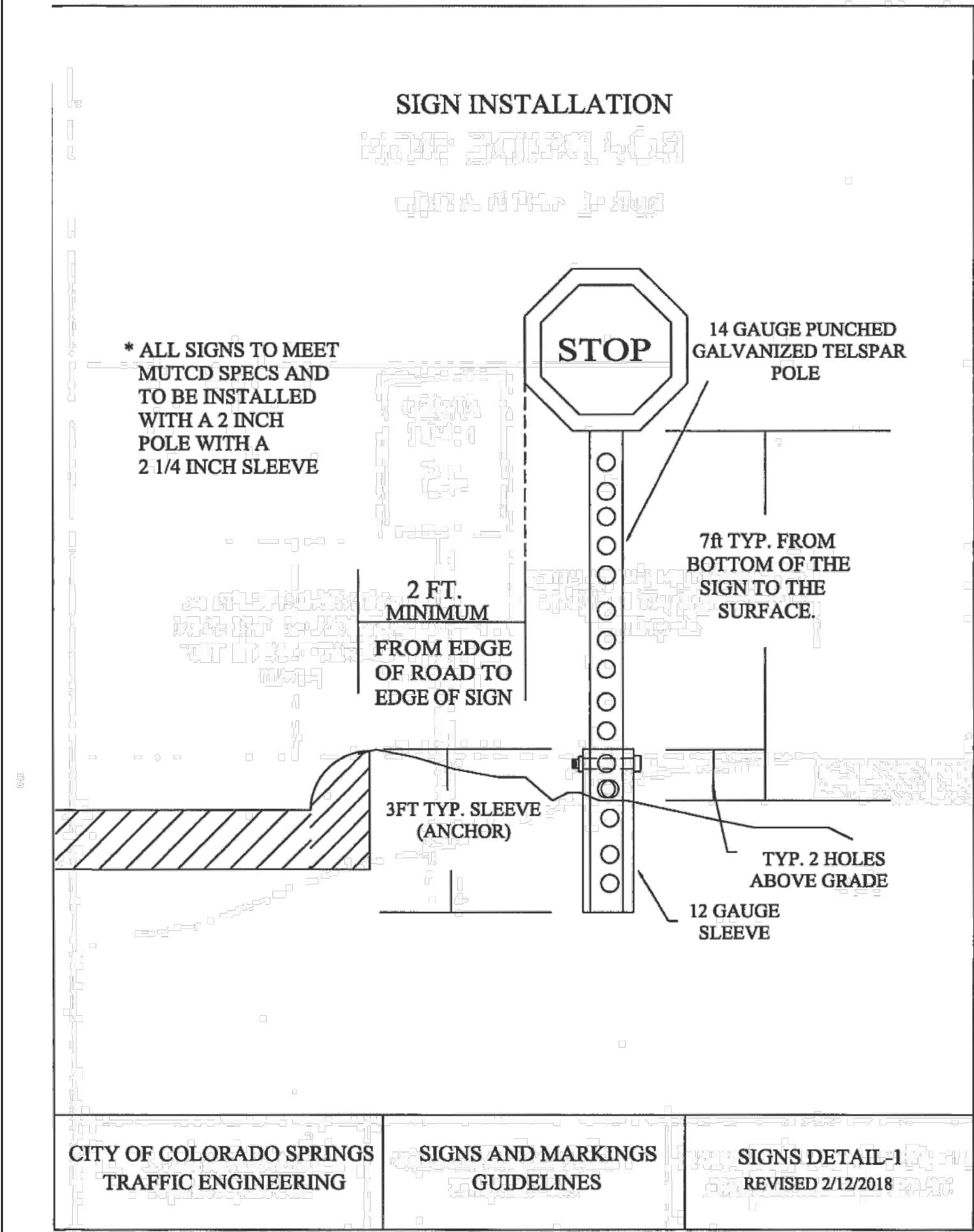
POND PLAN
PERMANENT CONTROL MEASURE PLAN

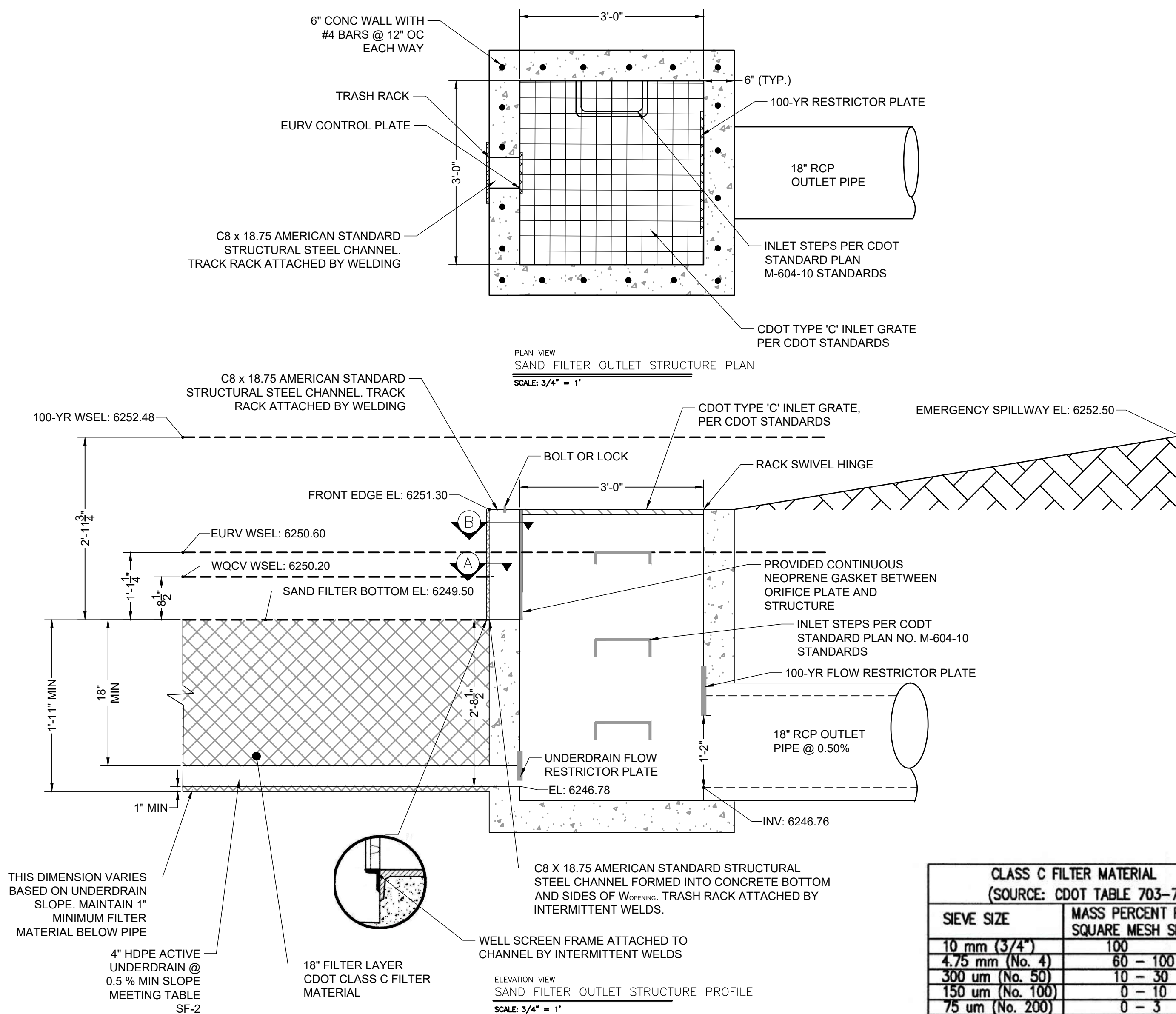
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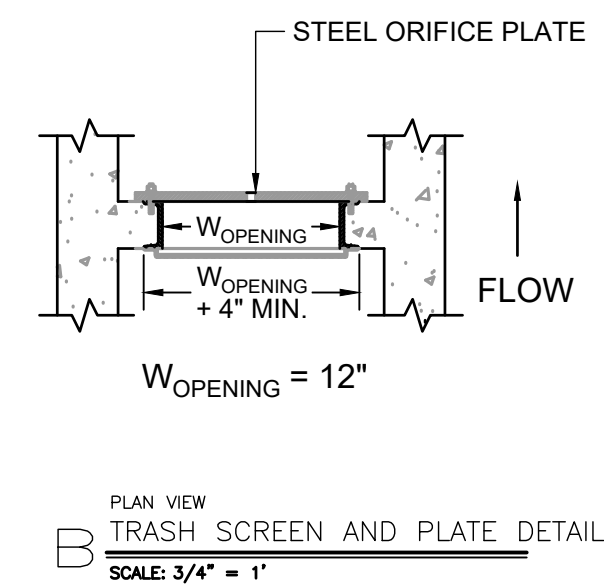
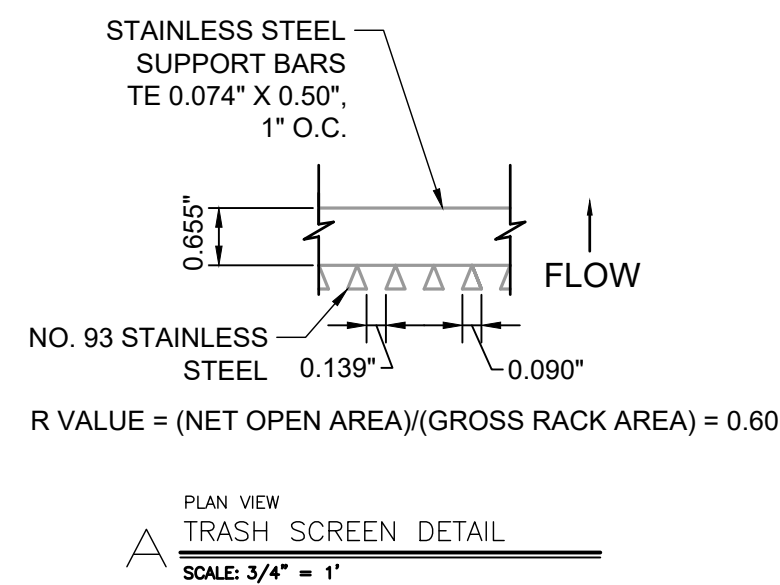
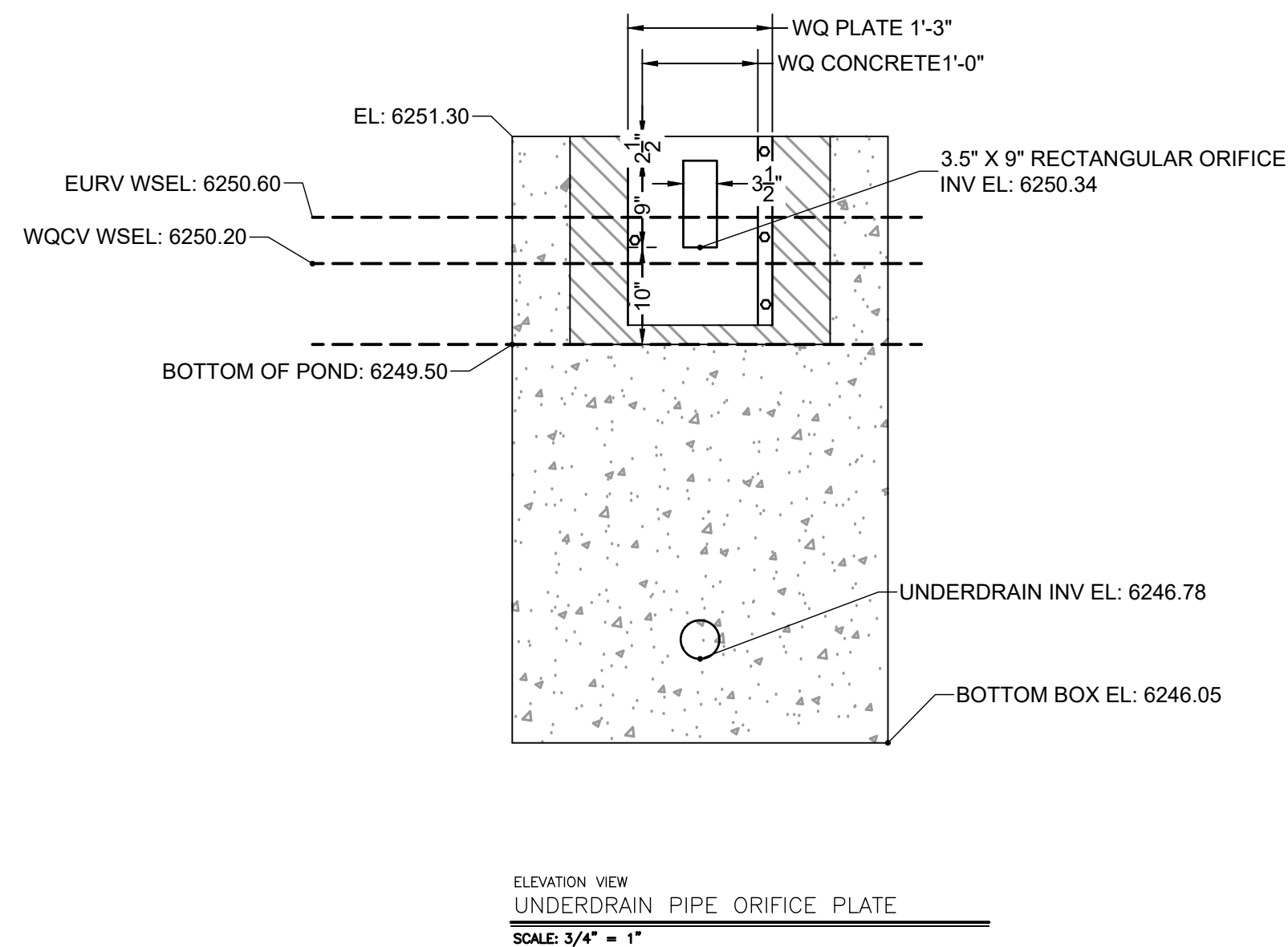


PCD FILING NO. SF2231





CLASS C FILTER MATERIAL (SOURCE: CDOT TABLE 703-7)	
SIEVE SIZE	MASS PERCENT PASSING SQUARE MESH SIEVES
10 mm (3/4")	100
4.75 mm (No. 4)	60 - 100
300 um (No. 50)	10 - 30
150 um (No. 100)	0 - 10
75 um (No. 200)	0 - 3

**ORIFICE PLATE NOTES:**

1. PLATE TO BE $\frac{3}{8}$ " THICK GALVANIZED STEEL.
2. BOLT PLATE TO CONCRETE 16" O.C. MAX.
3. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN THE ORIFICE PLATE AND CONCRETE

TRASH SCREEN NOTES:

1. WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.
2. BAR GATE TRASH RACKS SHALL BE ALUMINUM AND SHALL BE BOLTED USING STAINLESS STEEL HARDWARE.
3. TRASH RACK OPEN AREAS ARE FOR SPECIFIED TRASH RACK MATERIALS. TOTAL TRASH RACK SIZE MAY NEED TO BE ADJUSTED FOR MATERIALS HAVING DIFFERENT OPEN AREA/GROSS AREA RATIO (R VALUE).
4. STRUCTURAL DESIGN OF TRASH RACKS SHALL BE BASED ON FULL HYDROSTATIC HEAD WITH ZERO HEAD DOWNSTREAM OF THE RACK.

RESTRICTOR PLATE NOTES:

1. $\frac{3}{8}$ " THICK RESTRICTOR PLATE, GALVANIZED STEEL.
2. BOLT PLATE TO CONCRETE @ 12" O.C. MAX.
3. PROVIDE CONTINUOUS NEOPRENE GASKET MATERIAL BETWEEN PLATE AND CONCRETE
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PLATES AND GRATING FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.

WARNING
THIS AREA IS A STORMWATER FACILITY
AND IS SUBJECT TO PERIODIC FLOODING

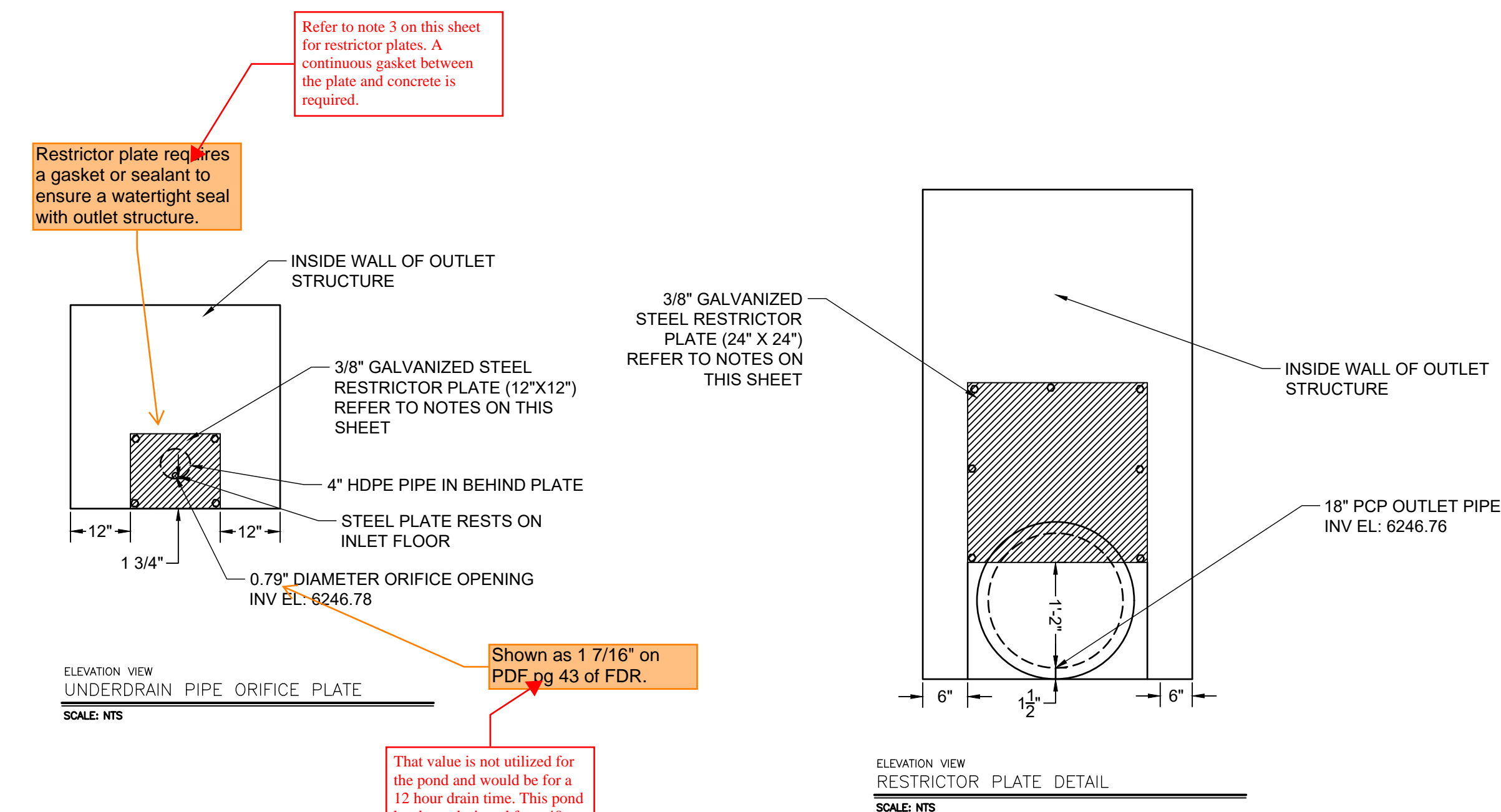
POND WARNING SIGN
SCALE: NTS
MINIMUM SIGN AREA = 3 FT²
SIGNS SHALL BE FABRICATED OF DURABLE
MATERIALS, SUCH AS METAL OR PLASTIC, USING
RED LETTERING ON A WHITE BACKGROUND

TWO SIGNS, EACH WITH A MINIMUM AREA OF 3 SQUARE FEET, SHALL BE PROVIDED AROUND THE PERIMETER OF ALL DETENTION FACILITIES. THE SIGNS SHALL BE FABRICATED OF DURABLE MATERIALS, SUCH AS METAL OR PLASTIC, USING RED LETTERING ON A WHITE BACKGROUND WITH THE ABOVE MESSAGE

Table SF-2. Dimensions for Slotted Pipe¹

Pipe Size	Slot Length	Maximum Slot Width	Slot Centers	Open Area (per foot)
4"	1-1/16"	0.032"	0.413"	1.90 in ²
6"	1-3/8"	0.032"	0.516"	1.98 in ²

¹ Pipe must conform to requirements of ASTM designation F949. There shall be no evidence of splitting, cracking, or breaking when the pipe is tested per ASTM test method D2412 in accordance with F949 section 7.5 and ASTM F794 section 8.5. Contech A-2000 slotted pipe (or equal).



Refer to note 3 on this sheet for restrictor plates. A continuous gasket between the plate and concrete is required.

Restrictor plate requires a gasket or sealant to ensure a watertight seal with outlet structure.

Shown as 1 7/16" on PDF pg 43 of FDR.

That value is not utilized for the pond and would be for a 12 hour drain time. This pond has been designed for a 40 hour drain time. Noted on page 43 of the FDR.

DRAWN BY: AXB JOB DATE: 12/22/2023
APPROVED: CM JOB NUMBER: 2202179
CAD DATE: 12/22/2023
CAD FILE: J:\2022\2202179\CAD\DWG\IC\Outlet_Structure_Details

BAR IS ONE INCH ON OFFICIAL DRAWINGS.
0 1"
IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

NO.	DATE	BY	REVISION DESCRIPTION



HR GREEN - COLORADO SPRINGS
1975 RESEARCH PARKWAY SUITE 230
COLORADO SPRINGS, CO 80920
PHONE: 719.394.2440
FAX: 713.965.0044

JOYFUL VIEW SUBDIVISION
OGC RE2, LLC.
EL PASO COUNTY, CO

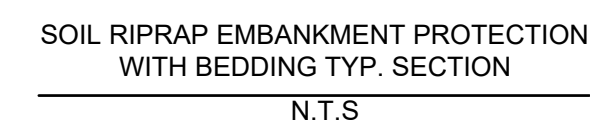
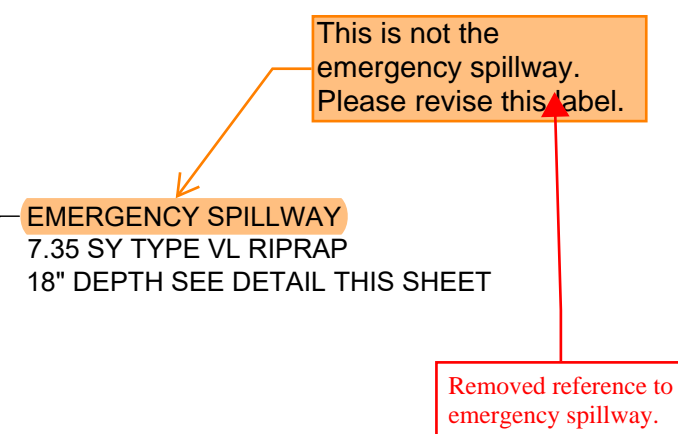
POND CONSTRUCTION DOCUMENTS
OUTLET STRUCTURE DETAILS

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PCD FILING NO. SF2231





*TYPE L RIPRAP D50=9":
D50=MEAN PARTICLE SIZE
(INTERMEDIATE DIMENSION) BY WEIGHT

*TYPE H RIPRAP D50=18"
D50=MEAN PARTICLE SIZE
(INTERMEDIATE DIMENSION) BY WEIGHT

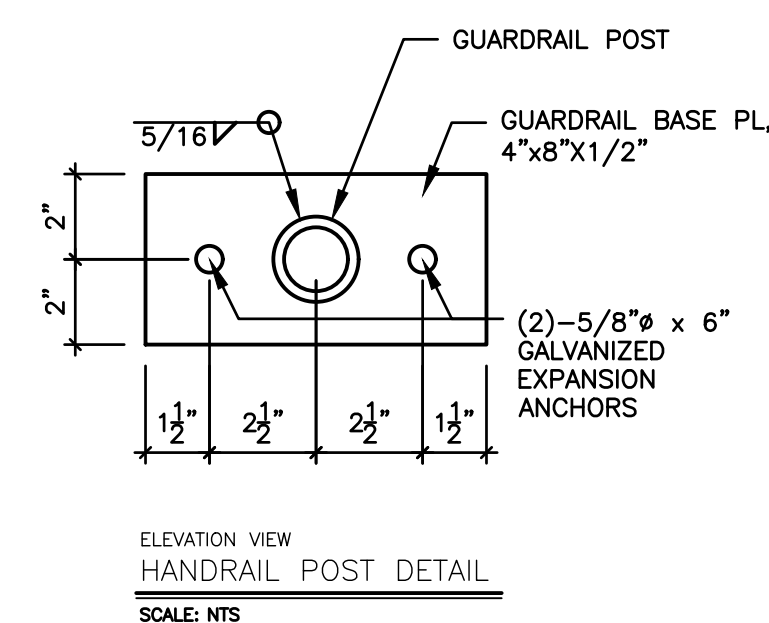
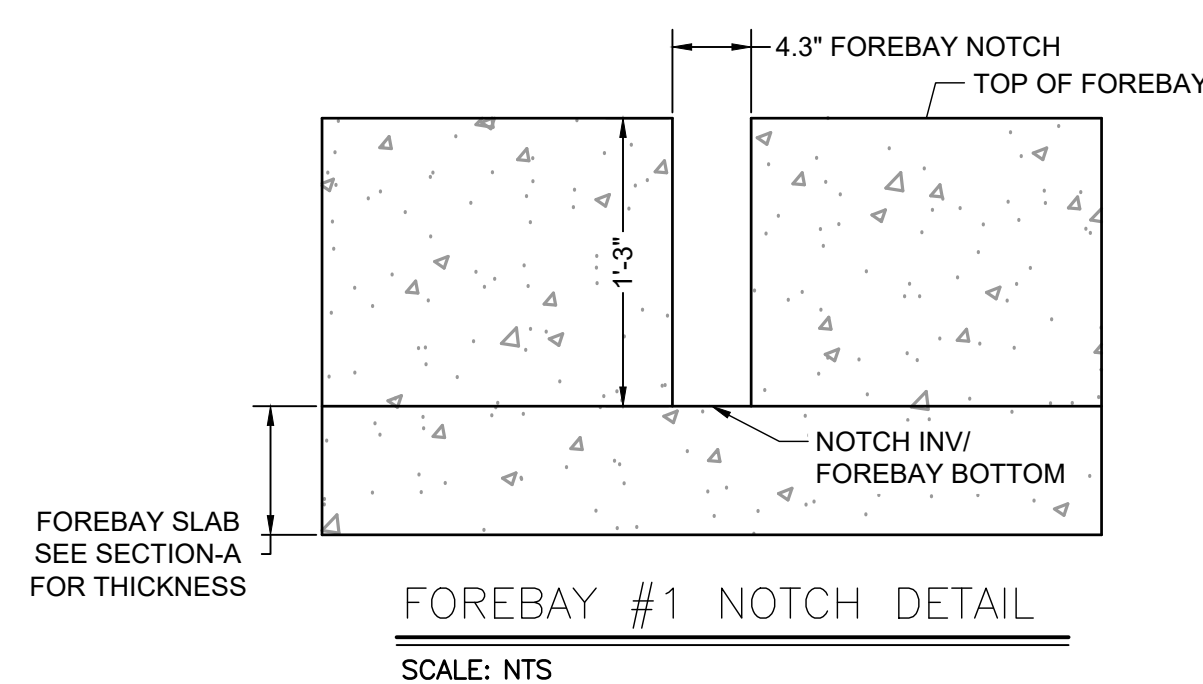
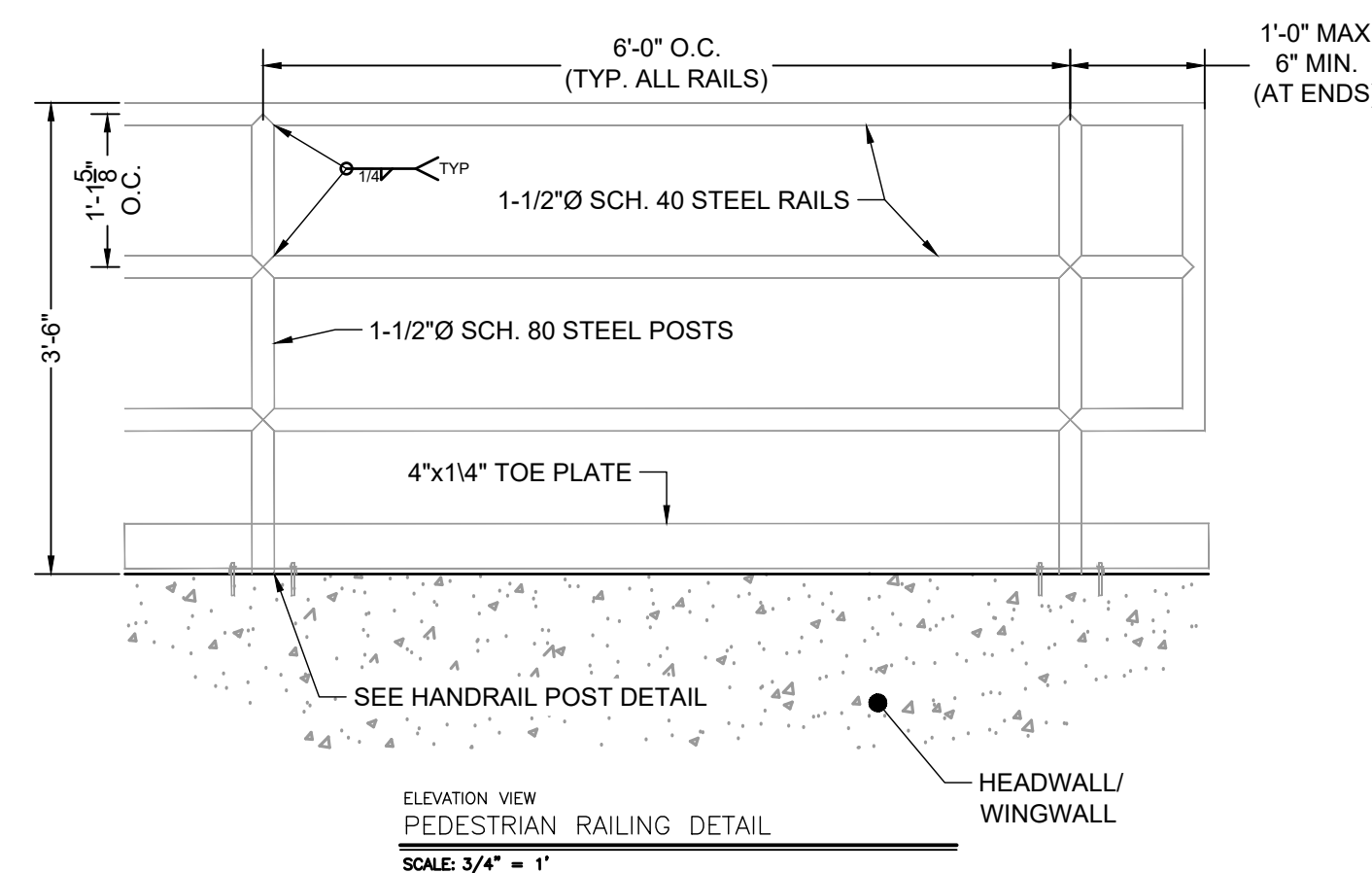
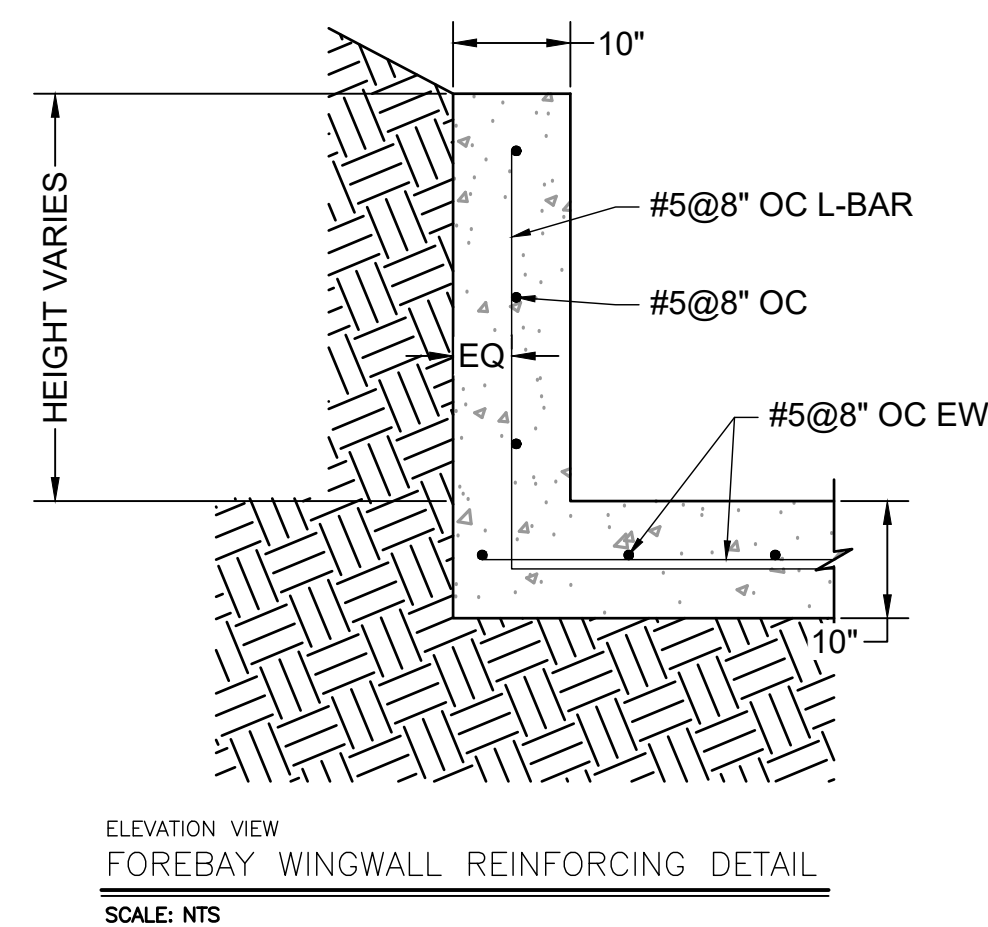
- RIPRAP NOTES:**
1. SOIL RIPRAP DETAILS ARE APPLICABLE TO SLOPED AREAS REFER TO THE SITE PLAN ACTUAL LOCATION AND LIMITS.
 2. MIX UNIFORMLY 65% RIPRAP BY VOLUME WITH 35% OF APPROVED SOIL BY VOLUME PRIOR TO PLACEMENT.
 3. PLACE STONE-SOIL MIX TO RESULT IN SECURELY INTERLOCKED ROCK AT THE DESIGN THICKNESS AND GRADE. COMPACT AND LEVEL TO ELIMINATE AIR POCKETS AND ROCKS PROJECTING ABOVE DESIGN RIPRAP TOP GRADE. CRIMP OR TACKIFY MULCH OR USE APPROVED HYDROMULCH AS CALLED FOR IN THE PLANS AND SPECIFICATIONS.
 5. ROCK SHALL BE HARD, DURABLE, ANGULAR IN SHAPE, AND FREE FROM CRACKS, OVERBEDDING, SHALE, AND ORGANIC MATTER.
 6. NUMBER BRAND FOR THICKNESS OF A SINGLE STONE SHOULD BE LESS THAN ONE-THIRD ITS LENGTH, AND ROUNDED STONE SHOULD BE AVOIDED.
 7. THE ROCK SHOULD SUSTAIN A LOSS OF NOT MORE THAN 40% AFTER 500 REVOLUTIONS IN AN ABRASION TEST (LOS ANGELES MACHINEASTM C-535-69) AND SHOULD SUSTAIN A LOSS OF NOT MORE THAN 10% AFTER 12 CYCLES OF FREEZING AND THAWING (AASHTO TEST 103 FOR LEDGE ROCK PROTECTIVE).
 8. ROCK HAVING A MINIMUM SPECIFIC GRAVITY OF 2.65 IS PREFERRED; HOWEVER, IN NO CASE SHOULD ROCK HAVE A SPECIFIC GRAVITY LESS THAN 2.50.

*TYPE VL RIPRAP D50=6"
D50=MEAN PARTICLE SIZE
(INTERMEDIATE DIMENSION) BY WEIGHT

*TYPE VH RIPRAP D50=24"
D50=MEAN PARTICLE SIZE
(INTERMEDIATE DIMENSION) BY WEIGHT

*TYPE M RIPRAP D50=12"
D50=MEAN PARTICLE SIZE
(INTERMEDIATE DIMENSION) BY WEIGHT

PLAN VIEW
FOREBAY #1
SCALE: 1"=2'



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CONSTRUCTION DOCUMENTS
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