

PROJECT CONTACTS

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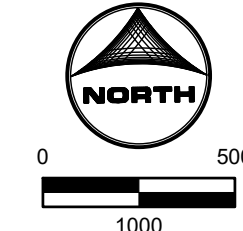
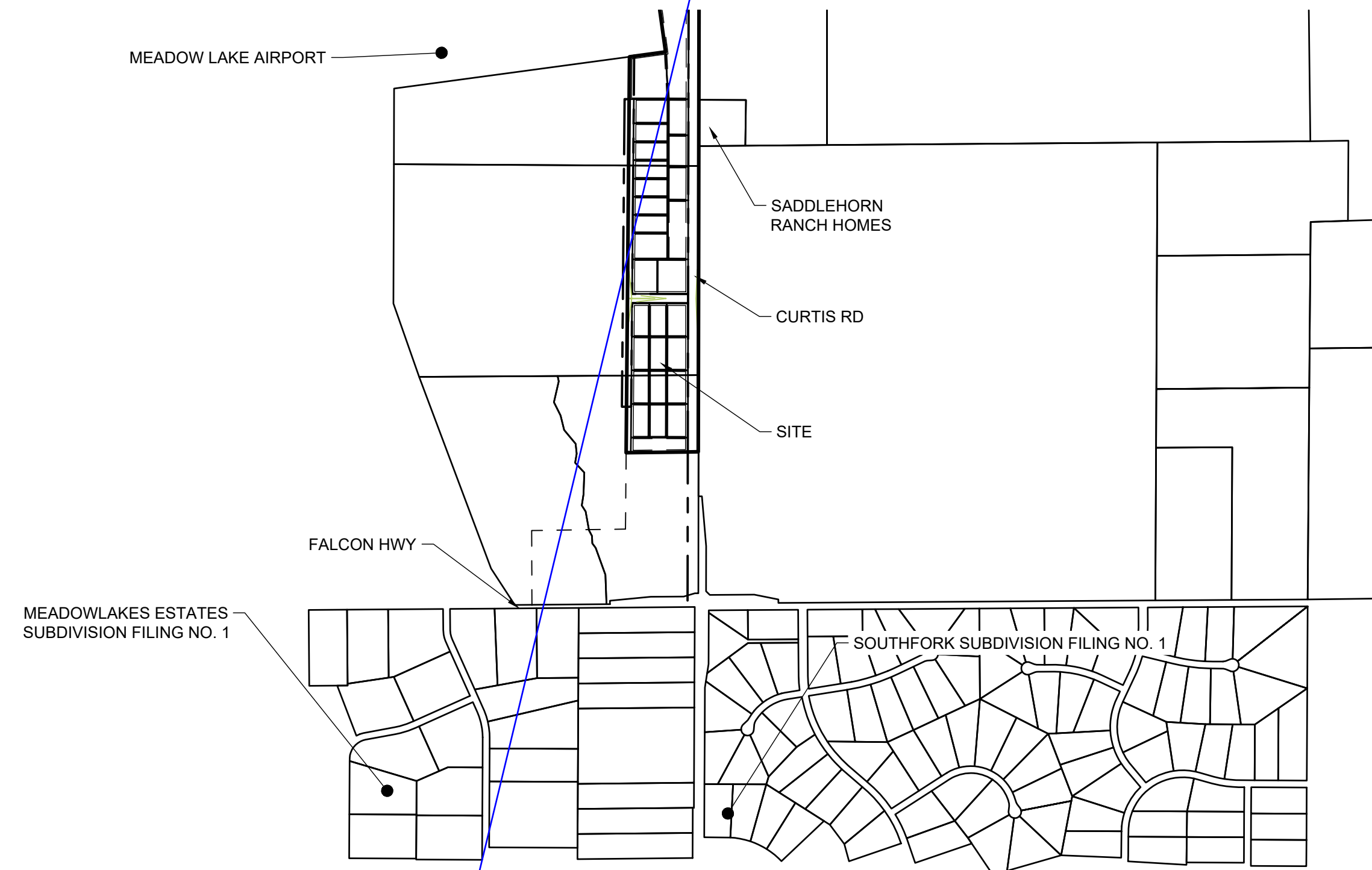
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EPC STORMWATER REVIEW COMMENTS
IN ORANGE BOXES WITH BLACK TEXT

MEADOW LAKE INDUSTRIAL FILING NO. 1
PRELIMINARY CONSTRUCTION DOCUMENTS

A PART OF THE EAST HALF OF SECTION 9, TOWNSHIP 13 SOUTH,
RANGE 64 WEST OF THE SIXTH PRINCIPAL MERIDIAN,
COUNTY OF EL PASO, STATE OF COLORADO



SHEET INDEX

- 1 - COVER
2 - LEGEND & TYPICAL SECTIONS
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24-27 - STORM PLAN & PROFILE
28 - POND A - GRADING PLAN
29 - POND A - FOREBAY DETAILS
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Construction drawings are reviewed in conjunction with the final drainage report at the final plat stage. If Predevelopment grading is proposed please submit only the early grading plans.

BENCHMARK

THE BENCHMARK FOR THIS TOPOGRAPHICAL MAP is 1/2"x24" REBAR W/ PLS38374 CAP SET

BASIS OF BEARING

THE BASIS OF BEARING IS THE THE EAST LINE OF SECTION 9, T13S, R64W, BEING ASSUMED S 00°06'00" W, 5273.84'.

NOTE: CONTRACTOR SHALL PROTECT ALL EXISTING SURVEY MONUMENTATION. CONTRACTOR SHALL HAVE LICENSED SURVEYOR REPLACE ANY DAMAGED OR DISTURBED MONUMENTATION AT THEIR COST.

NOTE: SURVEYOR TO OBTAIN AUTOCAD FILE FROM ENGINEER AND VERIFY ALL HORIZONTAL CONTROL DIMENSIONING PRIOR TO CONSTRUCTION STAKING. SURVEYOR MUST VERIFY ALL BENCHMARK, BASIS OF BEARING AND DATUM INFORMATION TO ENSURE IMPROVEMENTS WILL BE AT THE SAME HORIZONTAL AND VERTICAL LOCATIONS SHOWN ON THE DESIGN CONSTRUCTION DRAWINGS. PRIOR TO CONSTRUCTION STAKING ANY DISCREPANCY MUST BE REPORTED TO OWNER AND ENGINEER PRIOR TO CONTINUATION OF ANY FURTHER STAKING OR CONSTRUCTION WORK.

EL PASO COUNTY SIGNAGE & STRIPING NOTES:

- 1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT.
4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NO RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS".
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75"x1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALK LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.
12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15 MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (719.520.6819) PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AND EXISTING EL PASO COUNTY ROADWAY.

EL PASO COUNTY STANDARD CONSTRUCTION NOTES:

- 1. 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.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FILED 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).
3. 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:
A. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
B. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
C. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
D. CDOT M & S STANDARDS
4. NOTWITHSTANDING 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.
5. 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.
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT (PCD) - INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. 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.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
10. 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.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. 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.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. 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.

Provide Standard Notes for EPC Grading and Erosion Control Plans - On cover sheet or on GEC Plans.

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, COLORADO 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
MEADOWLAKE DEVELOPMENTS, LLC

Use the owner/developer statement for GEC Plans within CDs. See GEC Checklist Comments

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

EPC's EDARP File Number: SP236

Table with columns: DRAWN BY, APPROVED, CAD DATE, CAD FILE, JOB DATE, JOB NUMBER, and a note about scale (1 inch = 100 feet).

Table with columns: NO., DATE, BY, REVISION DESCRIPTION.

HRGreen logo and contact information for HR Green - Colorado Springs, 1975 Research Parkway Suite 230, Colorado Springs, CO 80920.

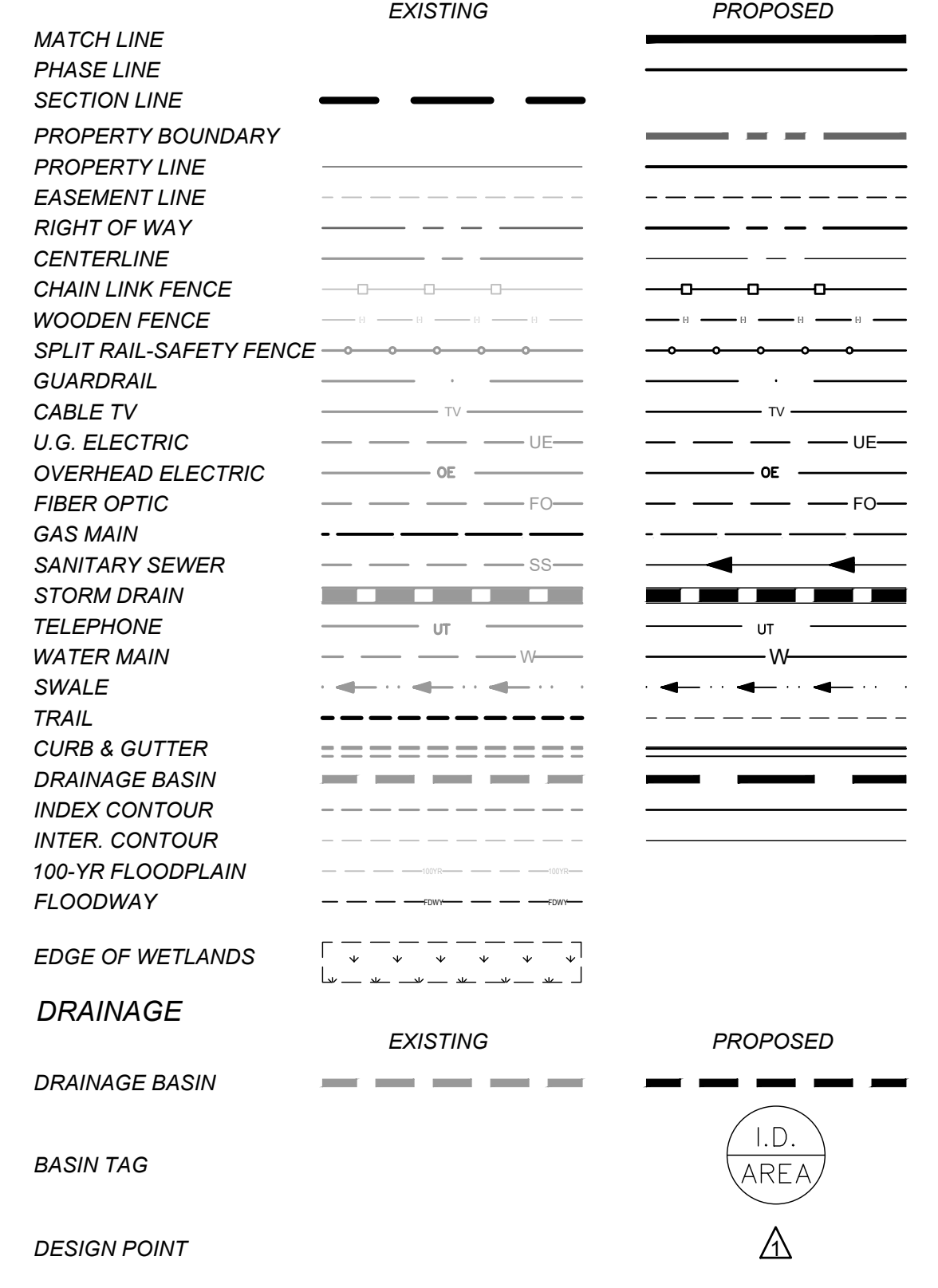
MEADOW LAKE INDUSTRIAL FILING NO. 1
MEADOWLAKE DEVELOPMENTS, LLC
EL PASO COUNTY, CO

COVER & NOTES
COVER

SHEET
CV
1

BULLARD, ABBY, 8/25/2023 12:05 PM

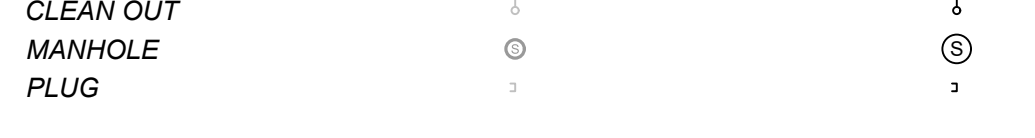
### LEGEND



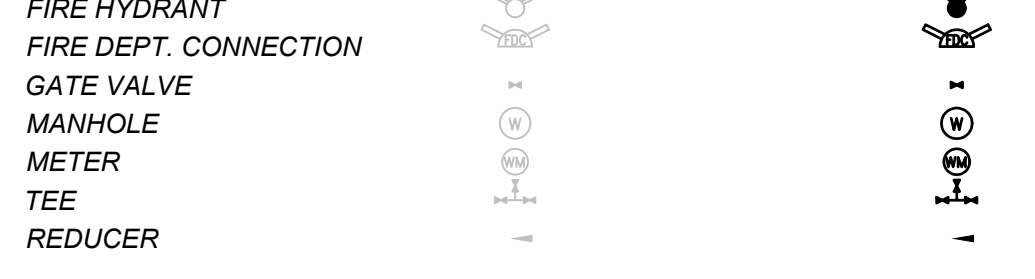
### STORM SEWER



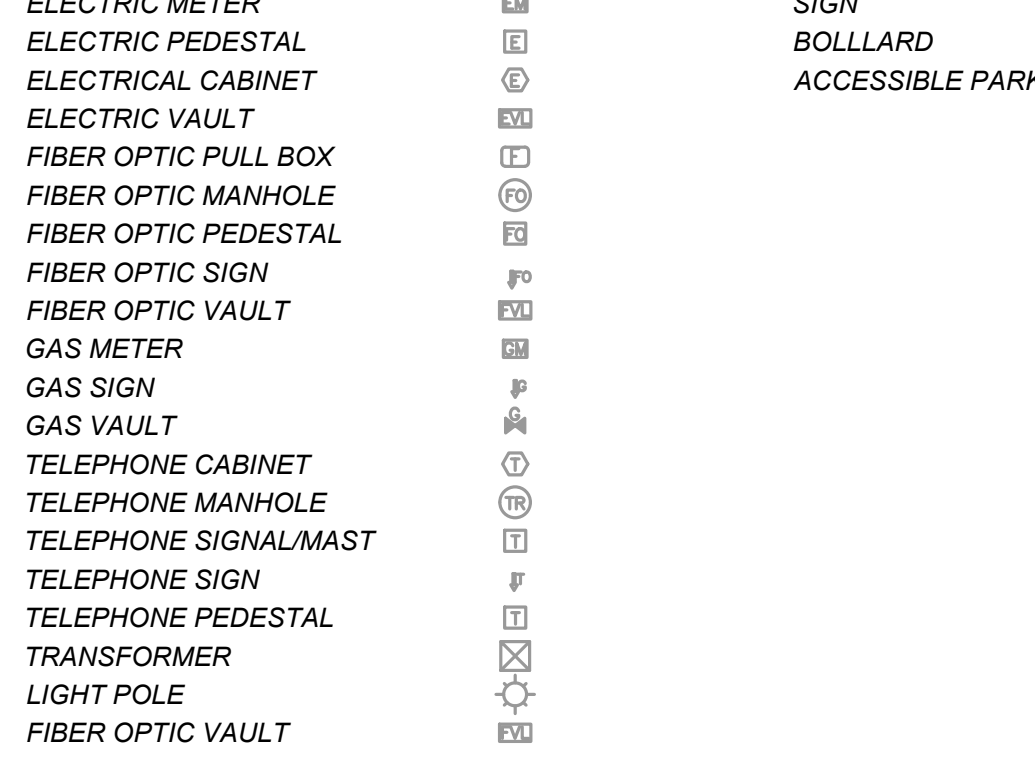
### SANITARY SEWER



### WATER



### DRY UTILITIES



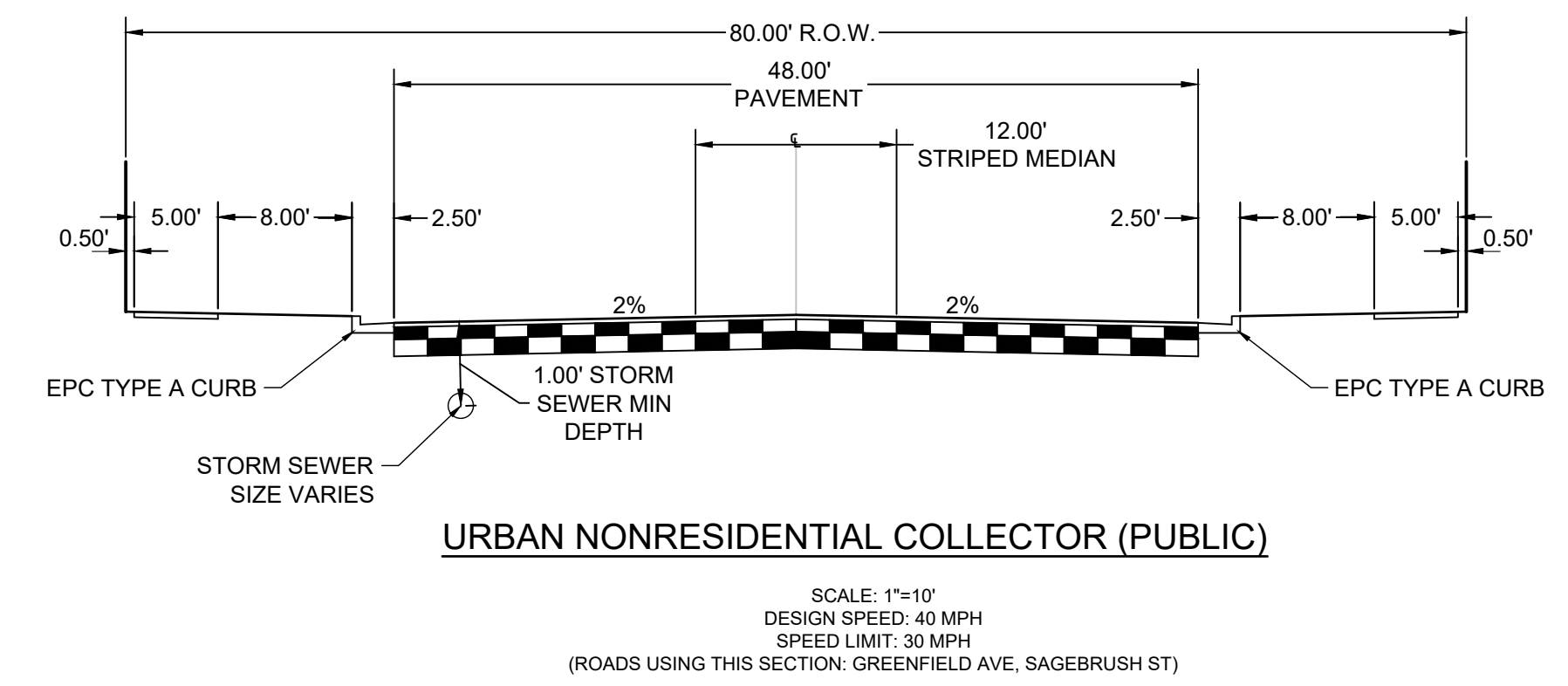
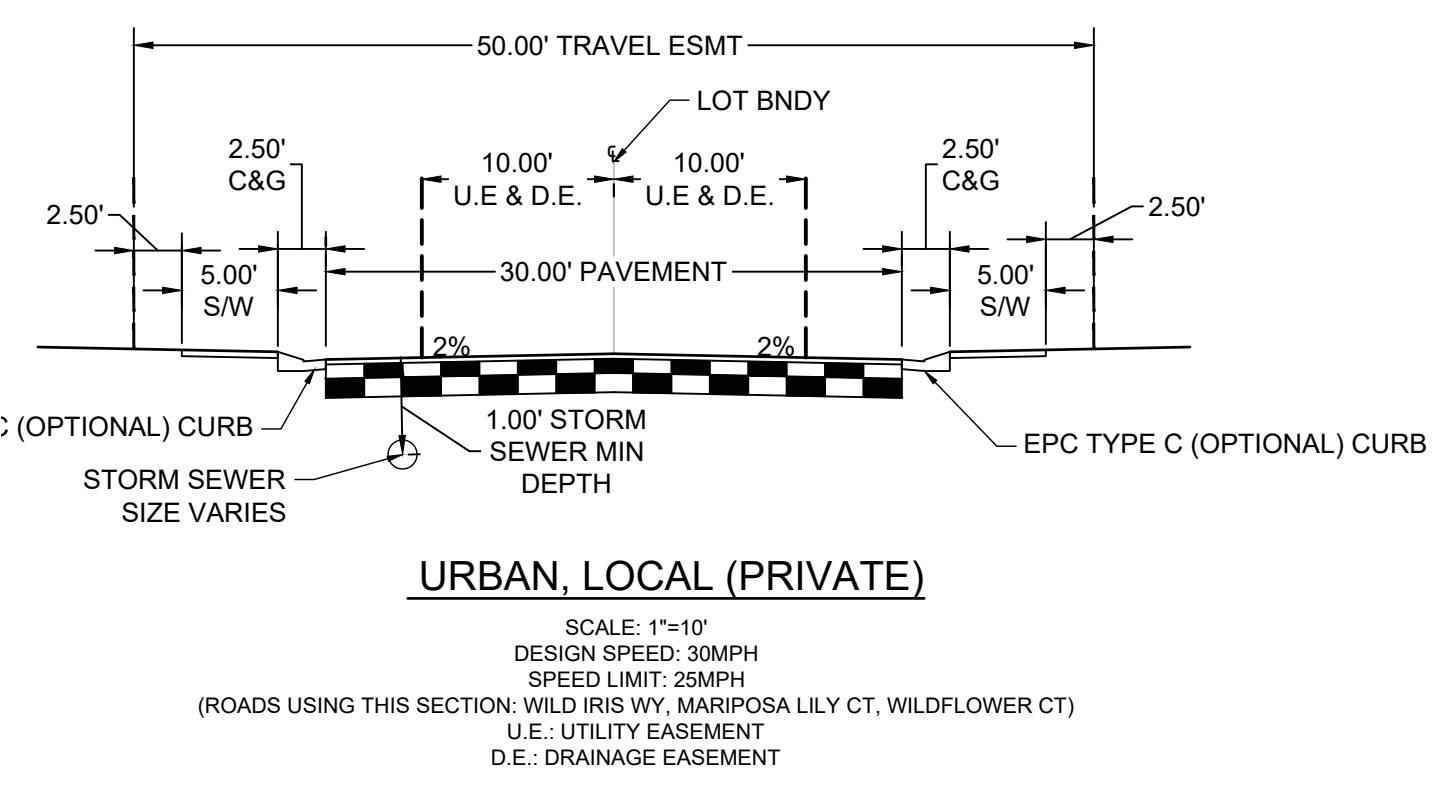
### MISCELLANEOUS



### ABBREVIATIONS

Δ	DEFLECTION ANGLE
Ø, DIA	DIAMETER
AASTHO	AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS
ABC	ASPHALT BASE COURSE
ABD	ABANDONED
AC	ACRE
ADA	THE AMERICANS WITH DISABILITIES ACT
ASPH	ASPHALT
ASS'Y	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS
BFE	BASE FLOOD ELEVATION
BLDG	BUILDING
BLVD	BOULEVARD
BM	BENCH MARK
BNDRY	BOUNDARY
BOP	BOTTOM OF POND
BW	BOTTOM OF WALL
C&G	CURB AND GUTTER
CA	COARSE AGGREGATE
CATV	CABLE TELEVISION
CB	CHORD BEARING/CATCH BASIN
CFS	CUBIC FEET PER SECOND
CIP	CAST IRON PIPE
CL	CENTER LINE
CMP	CORRUGATED METAL PIPE
COMP	COMPOSITE
CONC	CONCRETE
CONST	CONSTRUCT OR CONSTRUCTION
CSP	CORRUGATED STEEL PIPE
CSU	COLORADO SPRINGS UTILITIES
CT	COURT
CTR	CENTER
CU	COPPER
CY	CUBIC YARD
DBL	DOUBLE
DEG	DEGREE
DET	DETAIL
DEPT	DEPARTMENT
DIM	DIMENSION
DIP	DUCTILE IRON PIPE
DOT	DEPARTMENT OF TRANSPORTATION
DWG	DRAWING
E	EAST/EASTING
EL	ELEVATION
ELEC	ELECTRIC
EOG	EDGE OF GUTTER
EOP	EDGE OF PAVEMENT
ESMT	EASEMENT
EW	ENDWALL
EX	EXISTING
FD	FRENCH DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FE	FLANGE ELEVATION
FES	FLARED END SECTION
FF	FINISHED FLOOR
FG	FINISHED GRADE
FH	FIRE HYDRANT
FHWA	FEDERAL HIGHWAY ADMINISTRATION
FL	FLOW LINE

FOC	FIBER OPTICS CABLE
FT	FOOT OR FEET
GB	GRADE BREAK
GAL	GALLON
HDPE	HIGH DENSITY POLYETHYLENE
HC RAMP	HANDICAP RAMP
HW	HEADWALL
INV	INVERT
KM	KILOMETER
L	LENGTH
LF	LINEAR FEET
M	METER
MIN	MINIMUM
MISC	MISCELLANEOUS
MAINT	MAINTENANCE
MAX	MAXIMUM
MH	MANHOLE
MP	MIDPOINT
N	NORTH/NORTHING
NO	NUMBER
OC	ON CENTER
OH	OVERHEAD
PB	PUBLIC
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVATURE
PCR	POINT OF CURB RETURN
PI	POINT OF INTERSECTION
PIE	PUBLIC IMPROVEMENT ESMT
PT	POINT OF TANGENCY
PRC	PROPOSED
PRC	POINT OF REVERSE CURVATURE
PRV	PRESSURE REDUCING VALVE
PVT	PRIVATE
PUAE	PUBLIC UTILITY AND ACCESS ESMT
PUADE	PUBLIC UTILITY, ACCESS AND DRAINAGE ESMT
PVC	POLYVINYL CHLORIDE
R	RADIUS
REC	RECEPTION
RCBC	REINFORCED CONCRETE BOX CULVERT
S	SOUTH
SDMH	STORM SEWER MANHOLE
SHT	SHEET
SQ	SQUARE
SW	SPILLWAY
TBC	TOP BACK OF CURB
TC	TRICKLE CHANNEL
TOP	TOP OF POND
TW	TOP OF WALL
TYP	TYPICAL
UG	UNDERGROUND
VERT	VERTICAL
W	WEST
WW	WASTEWATER
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
YD	YARD



DRAWN BY:	DLH	JOB DATE:	8/25/2023	BAR IS ONE INCH ON OFFICIAL DRAWINGS.
APPROVED:	CM	JOB NUMBER:	2202774	0
CAD DATE:	8/25/2023			IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD FILE:	J:\2022\2202774\CAD\DWG\IC\CD\Cover			

NO.	DATE	BY	REVISION DESCRIPTION

**HRGreen** HR GREEN - COLORADO SPRINGS  
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 COLORADO SPRINGS, CO 80920  
 PHONE: 719.384.2440  
 FAX: 713.965.0044

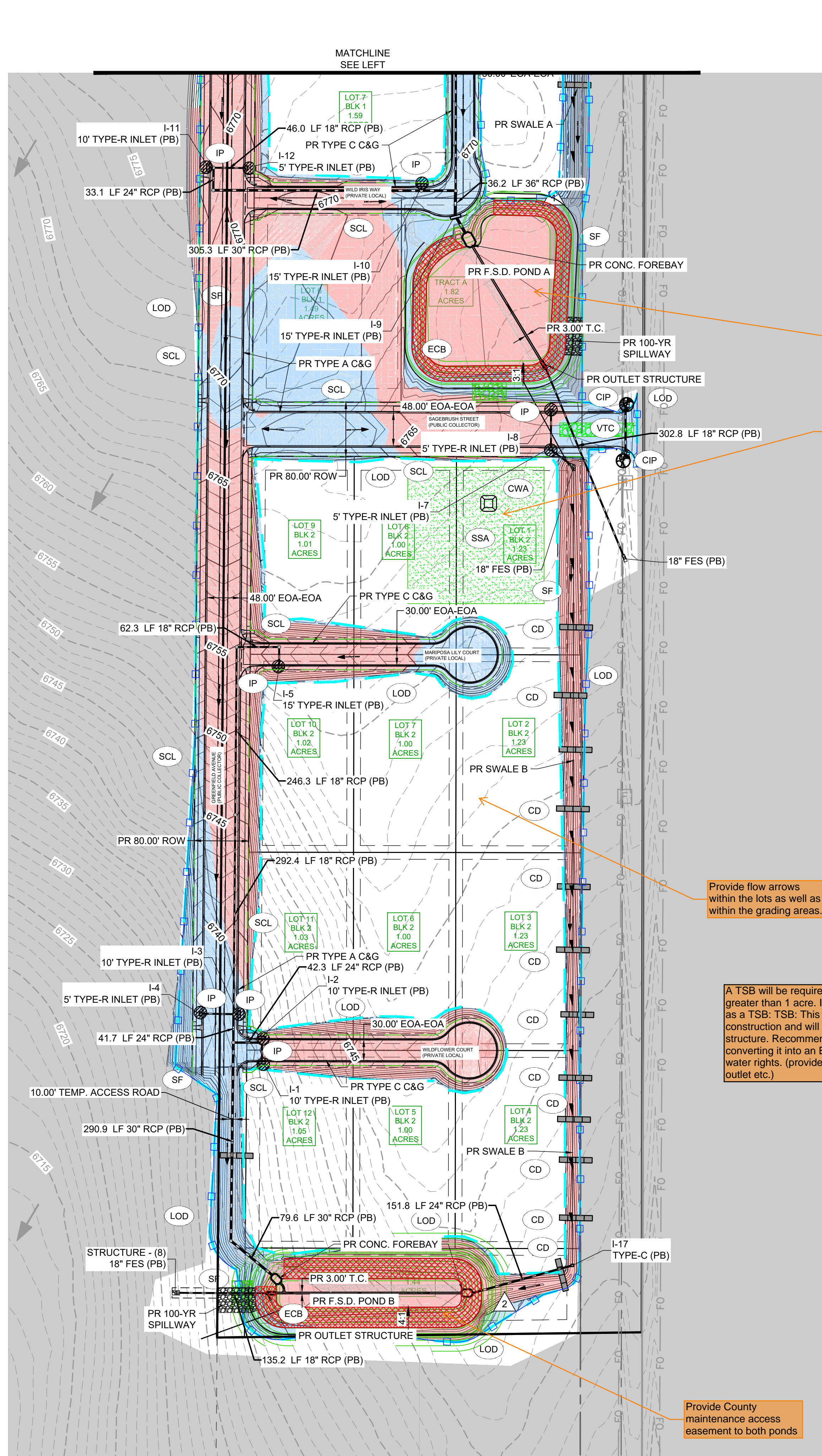
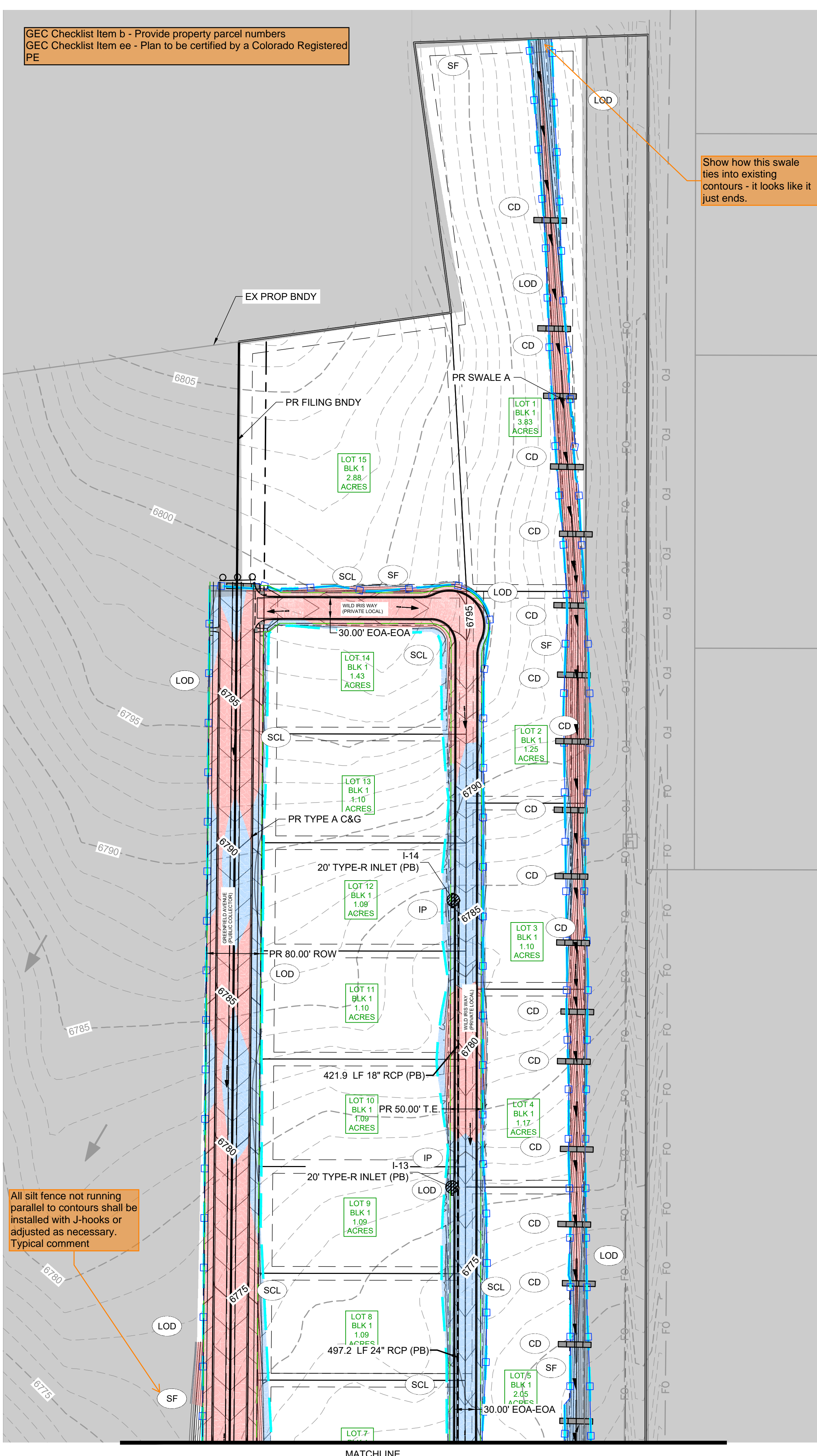
MEADOW LAKE INDUSTRIAL FILING NO. 1  
 MEADOWLAKE DEVELOPMENTS, LLC  
 EL PASO COUNTY, CO

CONSTRUCTION DOCUMENTS  
 LEGEND & TYPICAL SECTIONS

SHEET  
 LG  
 2

GEC Checklist Item b - Provide property parcel numbers  
GEC Checklist Item ee - Plan to be certified by a Colorado Registered PE

Show how this swale ties into existing contours - it looks like it just ends.



Provide the applicable EGP project number associated with this. EGP appears to be requested with this EDARP project, and if so, early grading specific plans are required to be submitted with this project. Show any existing initial BMPs but label as existing an/or grey out to clearly show what is existing from the initial phase.

NOTE: AN EARLY GRADING PERMIT (PROJECT # xxx) WAS REQUESTED FOR THIS PROJECT. REFER TO THAT PROJECT FOR INITIAL GEC PLAN.

I don't see where CF is proposed on the plans. If it is being proposed add a detail for it and clearly label, if not remove from legend.

Provide County maintenance access easement to both ponds

The SSA and some other BMPs are located out of the limits of construction but need to be within the limits of disturbance. Show limits of disturbance or if the same as limits of disturbance - include all temp BMPs, staging, access, etc within it. If the white area on the plans is the limits of disturbance - Please provide white box and label it "limits of disturbance" in legend.

Show the areas for temporary seeding and mulching, also add shape for permanent seeding and mulching

Provide flow arrows within the lots as well as within the grading areas.

A TSB will be required during construction since the site disturbs greater than 1 acre. If you are proposing to use the proposed ponds as a TSB: TSB: This area is treating a lot of disturbance during construction and will retain water prior to installing the outlet structure. Recommend using as a temporary sediment basin before converting it into an EDB in order to maintain compliance with CO water rights. (provide TSB details - size, riser pipe details, location of outlet etc.)

All silt fence not running parallel to contours shall be installed with J-hooks or adjusted as necessary. Typical comment

All BMPs must be labeled interim/final. The sheet is for both phases so that needs to be distinguished. Final BMPs are all permanent BMPs (pond, permanent seeding, ECB, etc). Any other BMPs not listed as final must be removed at the end of construction. Each BMP can be labeled on the plans or labeled in the legend with what phase it is applicable for.

- BMP LEGEND**
- CF CONSTRUCTION FENCE
  - CD CHECK DAM (TO BE INSTALLED A MINIMUM OF 1.5' OF VERTICAL FALL)
  - SCL SEDIMENT CONTROL LOG
  - SF SILT FENCE
  - SSA STABILIZED STAGING AREA
  - SP STOCKPILE MANAGEMENT
  - VTC VEHICLE TRACKING CONTROL
  - LOD LIMITS OF CONSTRUCTION (CUT/FILL LIMIT)
  - TS TEMP SEEDING AND MULCHING
  - IP INLET PROTECTION
  - CWA CONCRETE WASHOUT AREA
  - CIP CULVERT INLET PROTECTION
  - ECB EROSION CONTROL BLANKET
  - DO NOT DISTURB
  - PROP FLOW DIRECTION
  - EX FLOW DIRECTION
  - CUT CONDITION
  - FILL CONDITION
  - PROPOSED FILING BOUNDARY
  - EXISTING PARCEL LINE

**GRADING & EROSION CONTROL PLAN NOTES:**

1. SEE APPENDIX C FOR EL PASO COUNTY GRADING AND EROSION CONTROL DETAILS.
2. ALL STORMWATER MANAGEMENT MEASURES SHOWN ON THIS PLAN MUST BE INSTALLED AND MAINTAINED PER THE EL PASO COUNTY STORMWATER CONSTRUCTION MANUAL; LATEST REVISIONS.
3. AREA WITHIN LIMITS OF DISTURBANCE TO BE CLEARED, GRUBBED AND STOCKPILED PRIOR TO IMPORT OF ANY FILL.
4. ALL GREATER THAN 3:1 SLOPES MUST RECEIVE SLOPE TRACKING TREATMENT AND EROSION CONTROL BLANKET.
5. STOCKPILES REQUIRED DURING ONSITE CONSTRUCTION ACTIVITIES WILL BE PLACED AT THE DISCRETION OF THE CONTRACTOR. STOCKPILING OF MATERIAL MUST NOT OCCUR OUTSIDE THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN.
6. NON-STRUCTURAL CONTROLS (I.E. STREET SWEEPING) WILL BE AT THE DISCRETION OF THE PROJECT'S CERTIFIED GEC ADMINISTRATOR THROUGHOUT THE DURATION OF LAND DISTURBING ACTIVITIES.
7. THERE ARE NO ANTICIPATED ASPHALT AND/OR CONCRETE BATCH PLANTS, OR MASONRY MIX STATIONS ASSOCIATED WITH THIS PROJECT. IF THE CONTRACTOR REQUIRES A ASPHALT/CONCRETE BATCH PLANTS OR MASONRY MIX STATIONS, THESE PLANS WILL BE AMENDED AS REQUIRED.
8. THERE ARE NO EXISTING PRESERVATION EASEMENTS LOCATED ON SITE.
9. ONSITE EXISTING VEGETATION IS NATIVE GRASSES AND WEEDS. THERE IS NO NOTABLE VEGETATION OTHERWISE.
10. ALL NATURAL CHANNELS TO HAVE ROLLMAX TMAX TRM (OR EQUIV.) INSTALLED AS NOTED ON PLANS ARE TO HAVE PERMANENT SEEDING AND MULCHING.
11. ALL ROADSIDE DITCHES ARE TO HAVE PERMANENT TRM (ROLLMAX P300 OR EQUIV.) INSTALLED.
12. ALL CULVERTS ARE TO HAVE RIP-RAP INSTALLED AT OUTLET POINTS AS SEEN IN STORM CONSTRUCTION DRAWINGS.
13. THERE ARE NO BACK PLANTS ON SITE
14. THERE IS NO FEMA FLOODPLAIN IN FILING 1 BOUNDARY
15. THERE ARE NO EXISTING OR PROPOSED WATER COURSES IN FILING 1 BOUNDARY
16. THERE IS NO OFF-SITE GRADING
17. CONCLUSIONS FROM SOILS/GEOTECHNICAL REPORT AND GEOLOGIC HAZARDS REPORT HAVE BEEN INCORPORATED IN GRADING DESIGN

**PROJECT INFO:**

CUT VOLUME: 55,629 CUBIC YARDS  
FILL VOLUME: 11,452 CUBIC YARDS  
NET 44,176 (CUT) CUBIC YARDS

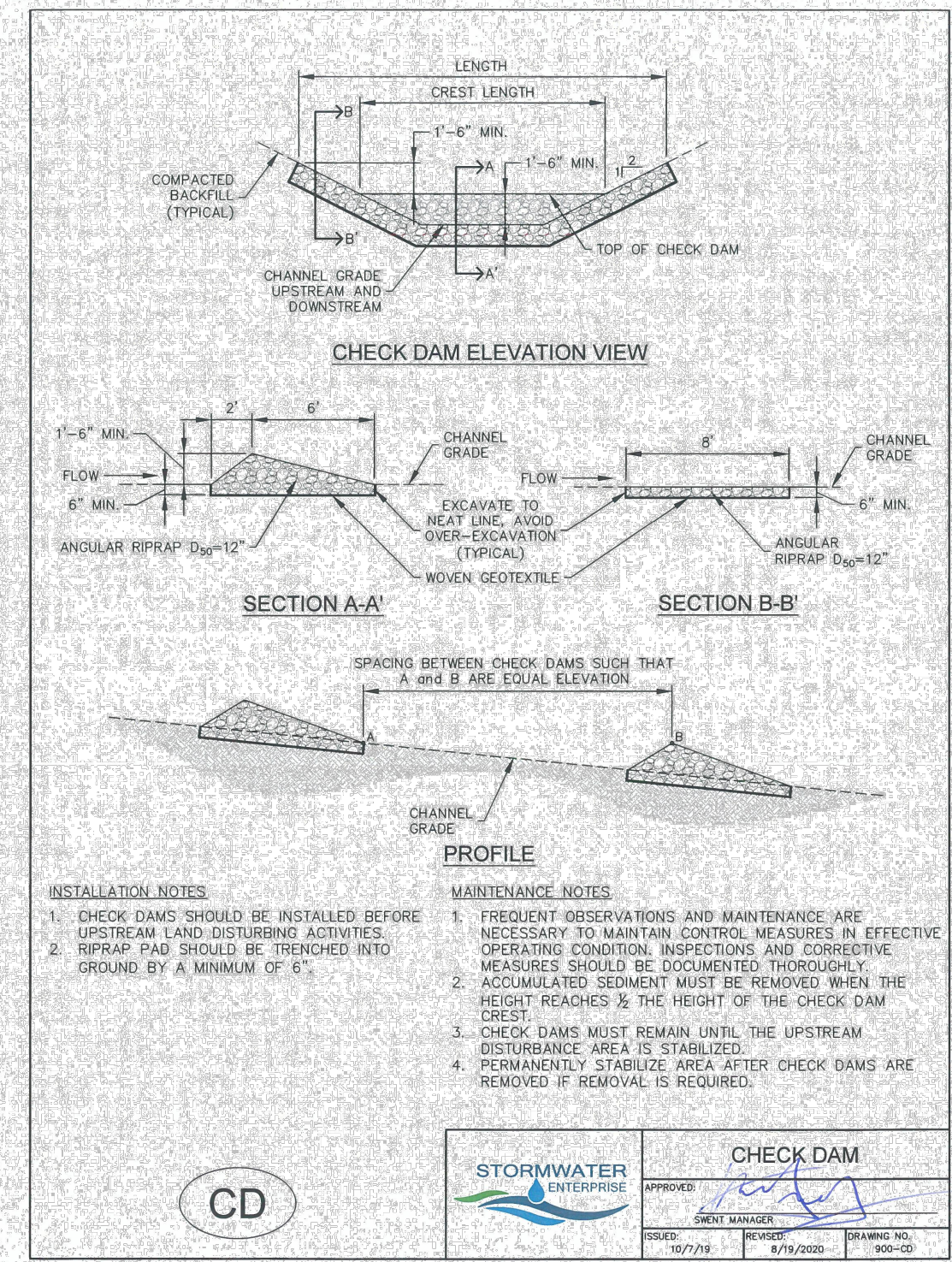
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APPROVED: CM JOB NUMBER: 2202774  
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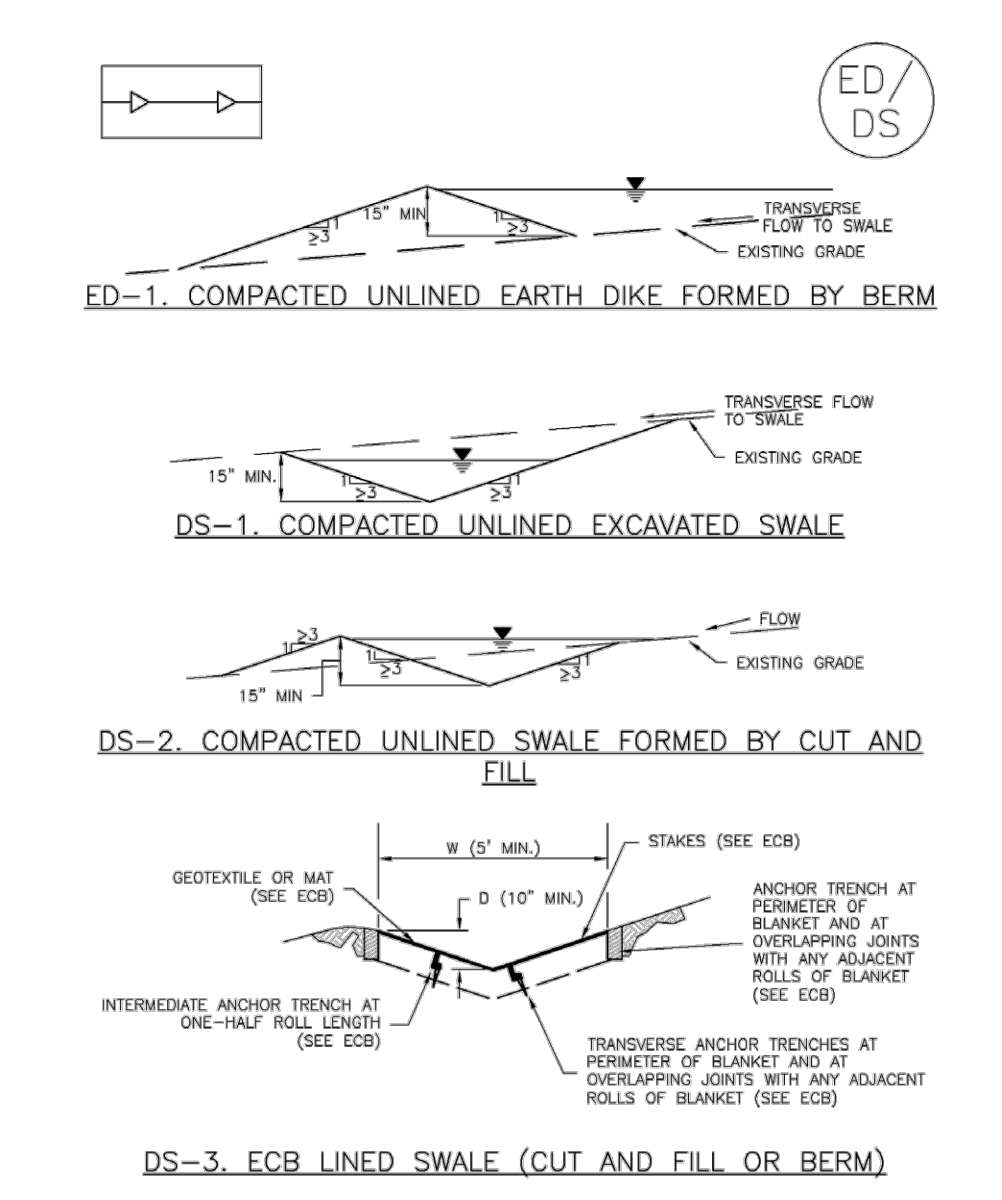
HR GREEN - COLORADO SPRINGS  
1975 RESEARCH PARKWAY SUITE 230  
COLORADO SPRINGS, CO 80920  
PHONE: 719.384.2440  
FAX: 719.965.0044

MEADOW LAKE INDUSTRIAL FILING NO. 1  
MEADOWLAKE DEVELOPMENTS, LLC  
EL PASO COUNTY, CO

CONSTRUCTION DOCUMENTS  
GEC - INTERIM-FINAL PLAN  
SHEET GEC 3



### Earth Dikes and Drainage Swales (ED/DS) EC-10



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 ED/DS-3

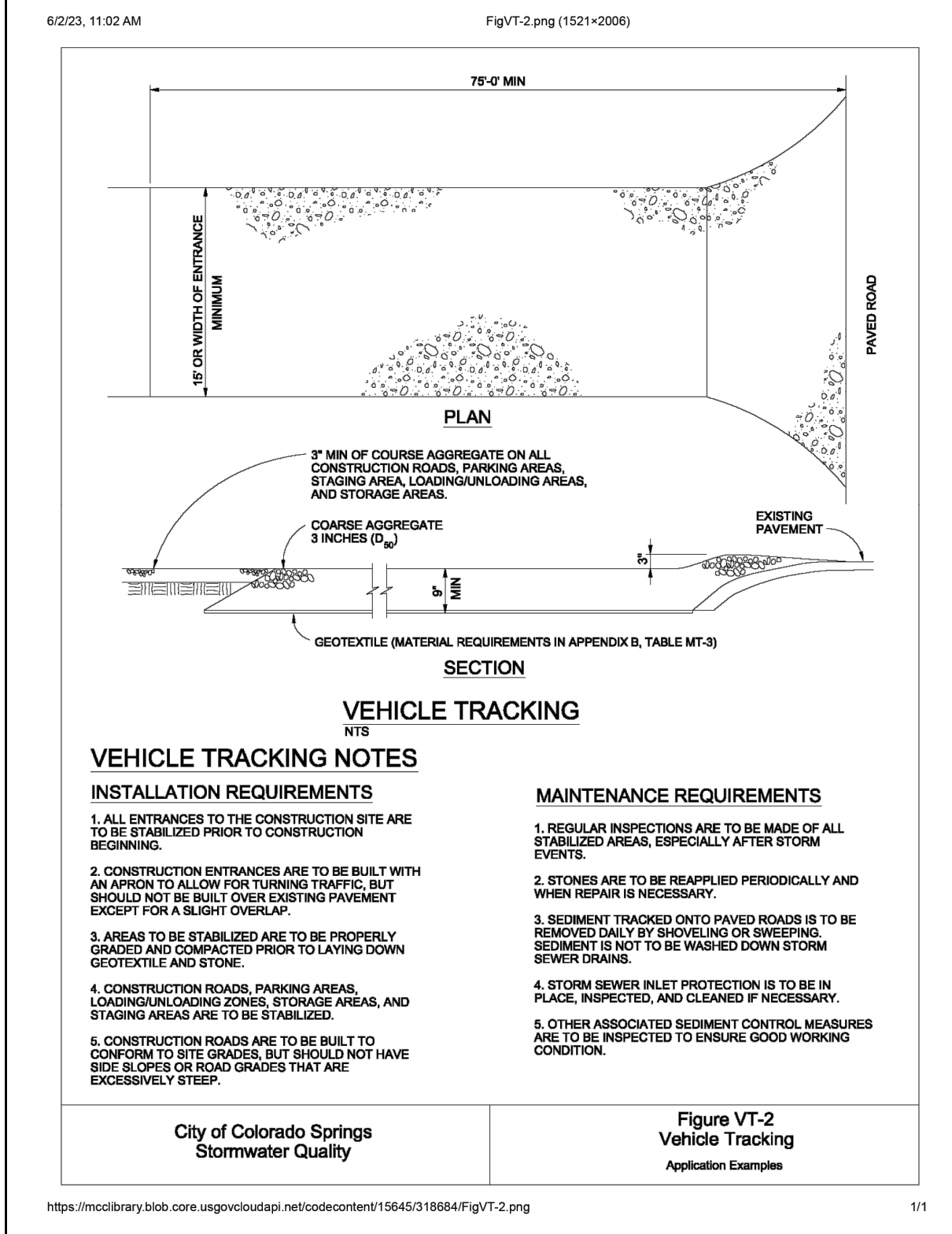
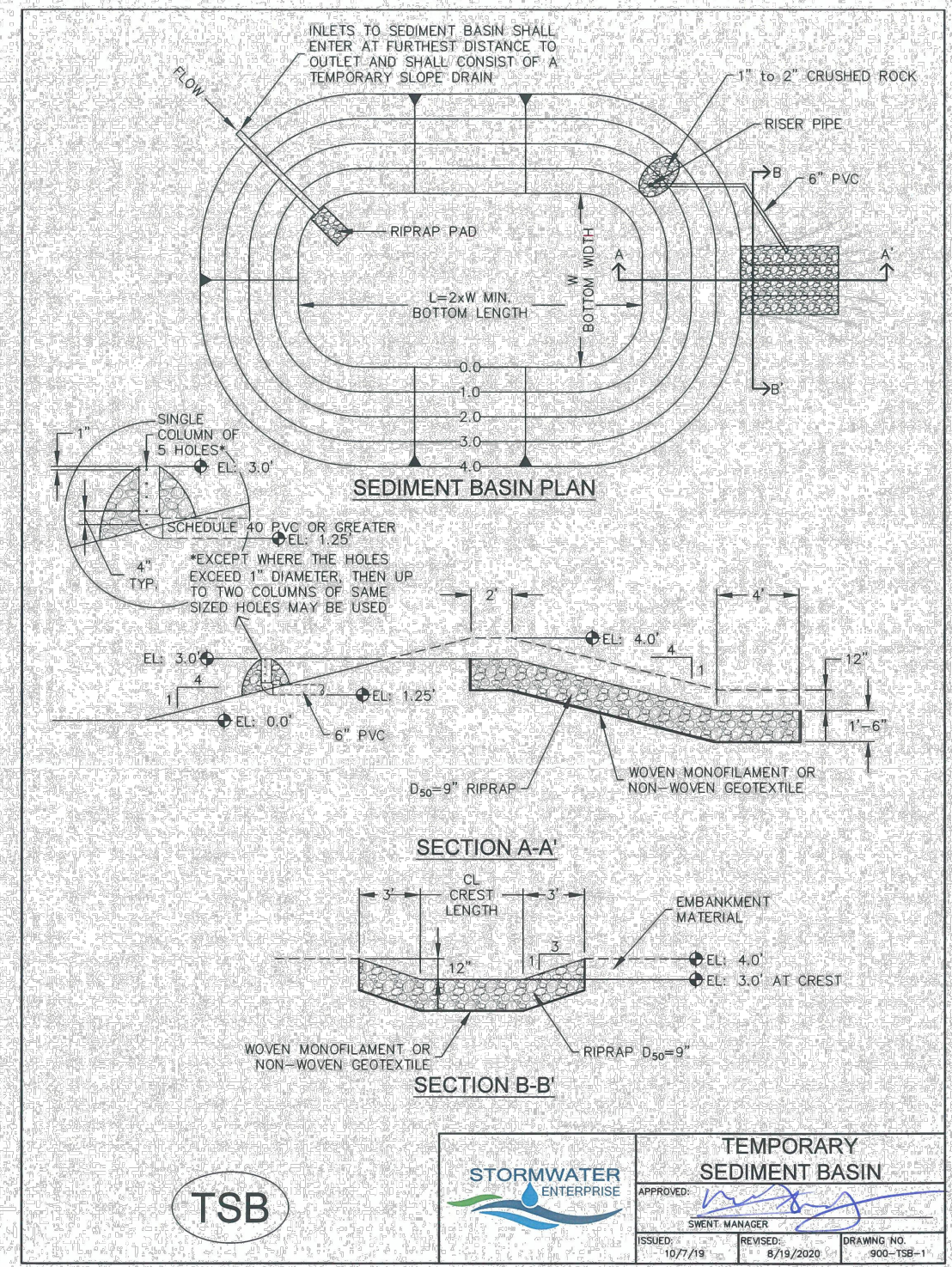
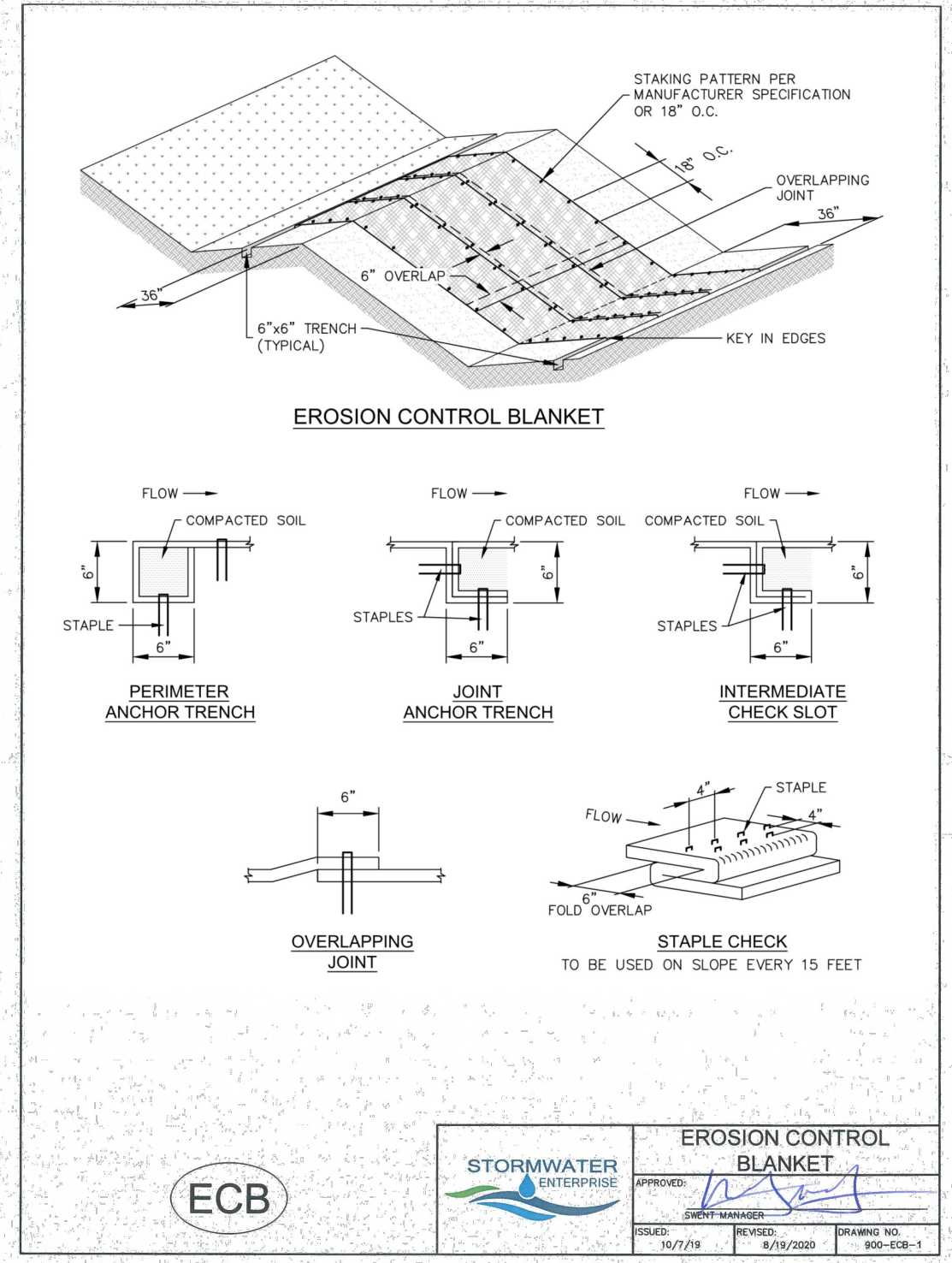


Figure VT-2 Vehicle Tracking



UPSTREAM DRAINAGE AREA (AC)	BASIN BOTTOM WIDTH (W, FT)	SPILLWAY CREST LENGTH (CL, FT)	HOLE DIAMETER (DCL, IN)
1	12"	2'	1/2"
2	18"	3'	3/4"
3	24"	4'	1"
4	30"	5'	1 1/4"
5	36"	6'	1 1/2"
6	42"	7'	1 3/4"
7	48"	8'	2"
8	54"	9'	2 1/4"
9	60"	10'	2 1/2"
10	66"	11'	2 3/4"
11	72"	12'	3"
12	78"	13'	3 1/4"
13	84"	14'	3 1/2"
14	90"	15'	3 3/4"
15	96"	16'	4"

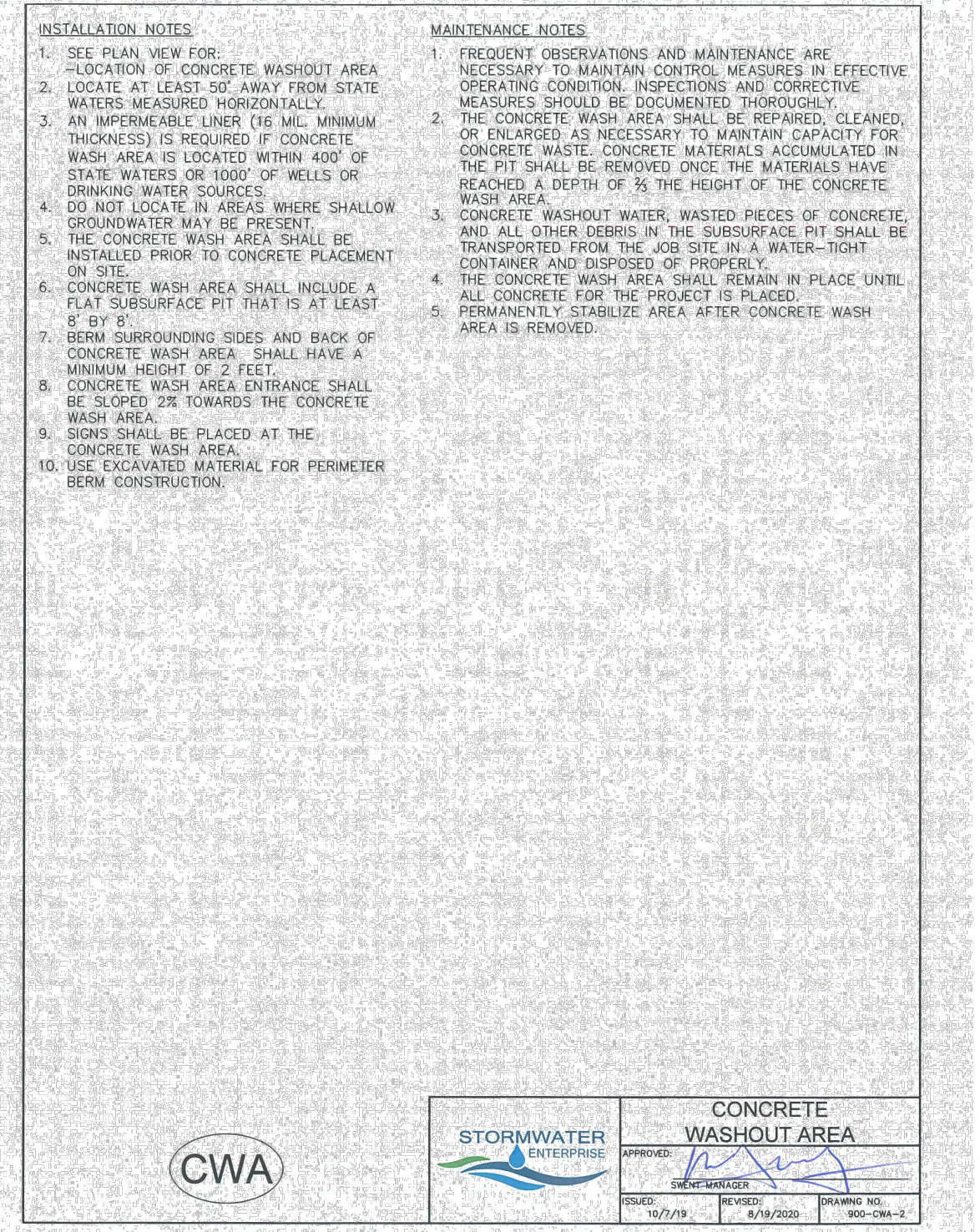
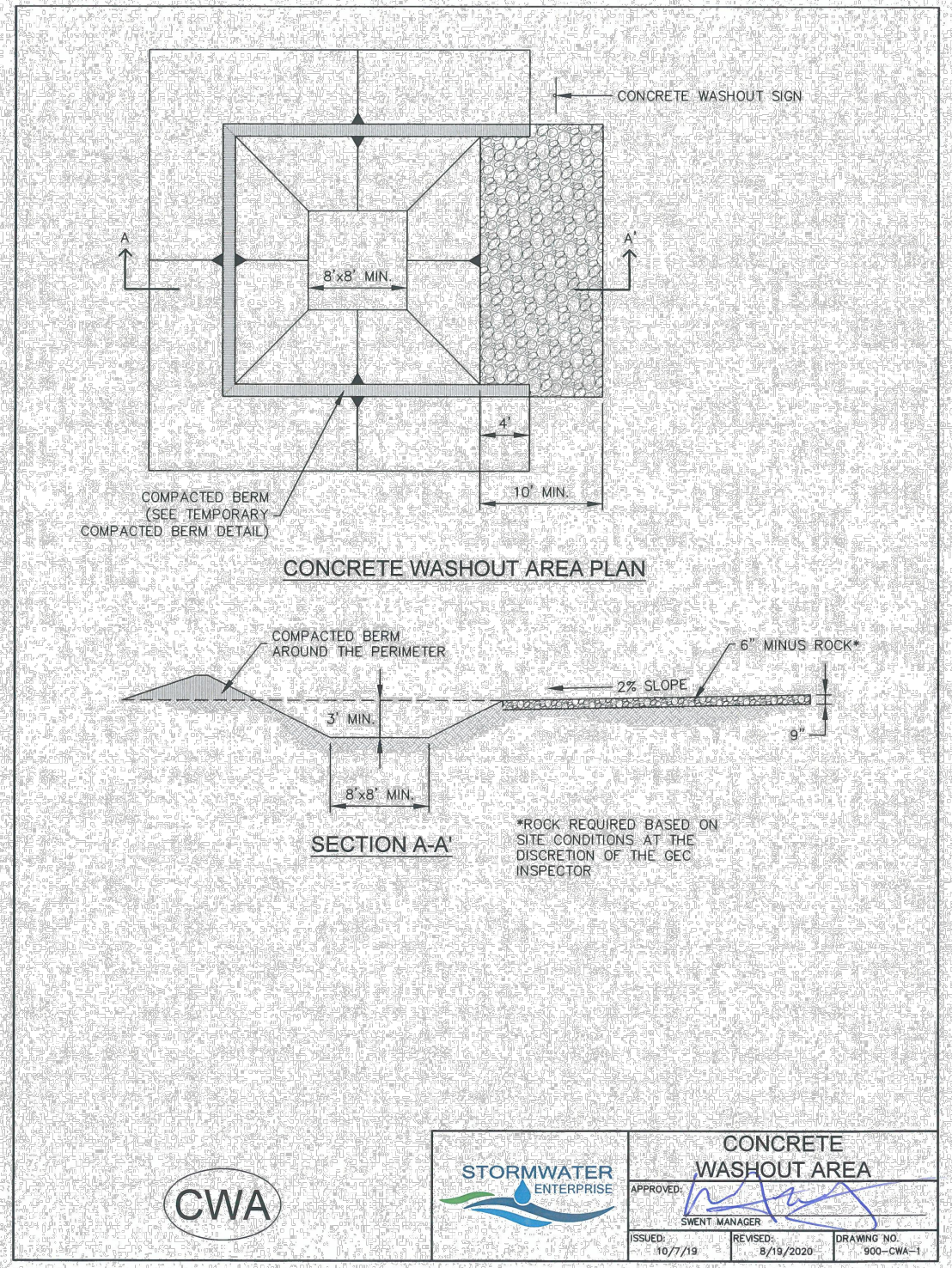
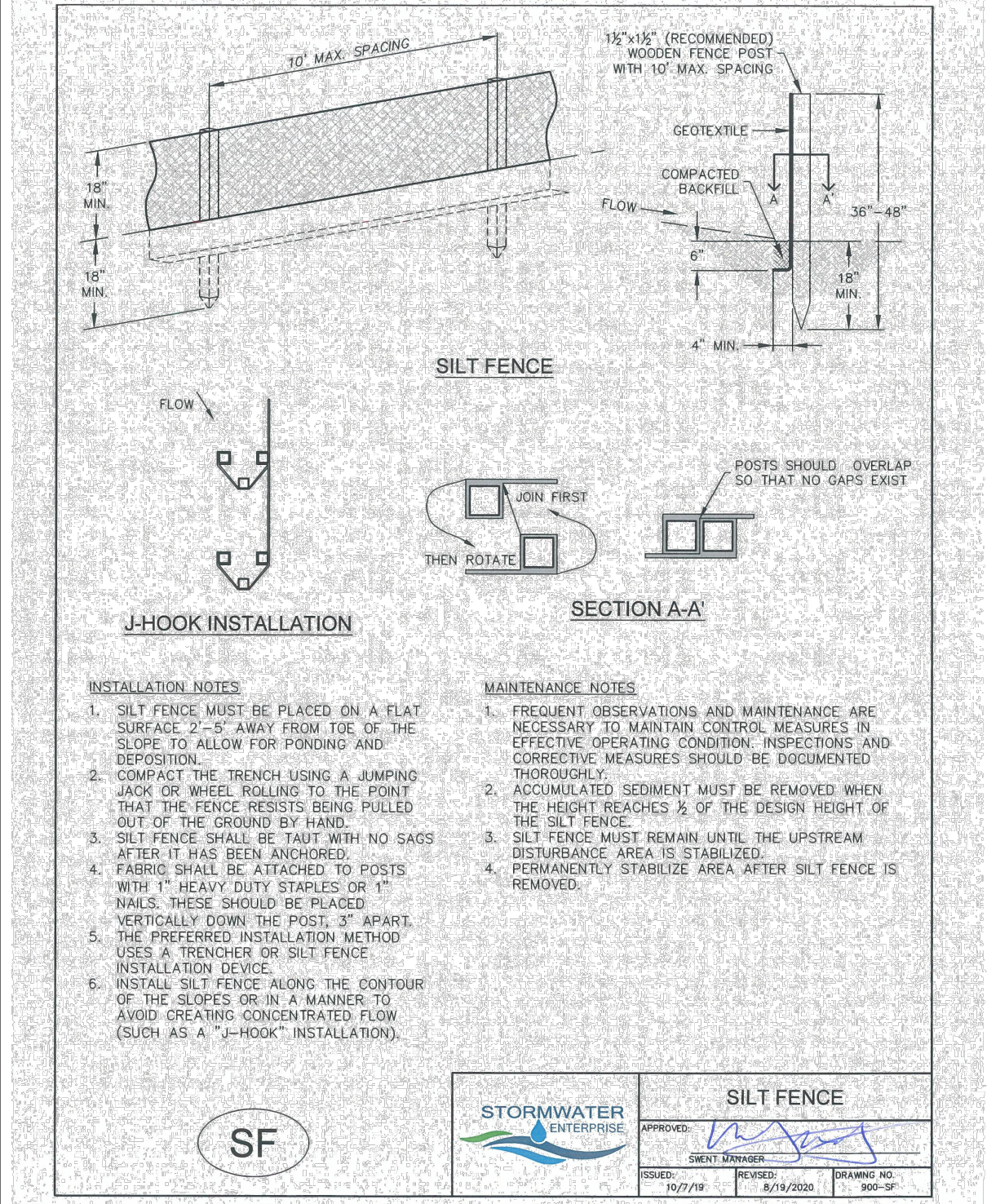
**TSB**



**TABLE ECB-1. EROSION CONTROL BLANKET MATERIAL SPECIFICATIONS**

TYPE	COCONUT CONTENT		STRAW CONTENT		RECOMMENDED NETTING
	MIN.	MAX.	MIN.	MAX.	
STRAW	100%	100%	100%	100%	DOUBLE/NATURAL
STRAW-COCONUT	30% MIN.	30% MAX.	70% MIN.	70% MAX.	DOUBLE/NATURAL
COCONUT	100%	100%	100%	100%	DOUBLE/NATURAL
EXCELOR	100%	100%	100%	100%	DOUBLE/NATURAL

**ECB**



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APPROVED: CM JOB NUMBER: 2202774 0

CAD DATE: 8/25/2023 IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.

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NO.	DATE	BY	REVISION DESCRIPTION

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**A. ROCK DAM**

**B. STRAW BALE CHECK DAM**  
(SEE STRAW BALE BARRIER INSTALLATION)

**C. SPACING CHECK DAMS**

**CHECK DAM**  
NTS

**INSTALLATION REQUIREMENTS**

1. STRAW BALES USED AS CHECK DAMS ARE TO MEET THE REQUIREMENTS STATED IN FIGURE 8B8-2.
2. THE "H" DIMENSION SHALL BE SELECTED TO PROVIDE WEIR FLOW CONVEYANCE FOR 2-YEAR FLOW OR GREATER.
3. CHECK DAMS ARE TO REMAIN IN PLACE AND OPERATIONAL UNTIL THE DRAINAGE AREA AND CHANNELS ARE PERMANENTLY STABILIZED.
4. WHEN CHECK DAMS ARE REMOVED THE CHANNEL Lining OR VEGETATION IS TO BE RESTORED.

**MAINTENANCE REQUIREMENTS**

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL CHECK DAMS, ESPECIALLY AFTER STORM EVENTS.
2. REPLACE STONE AS NECESSARY TO MAINTAIN THE CORRECT HEIGHT OF THE DAM.
3. ACCUMULATED SEDIMENT AND DEBRIS IS TO BE REMOVED FROM BEHIND THE DAMS AFTER EACH STORM OR WHEN 1/2 OF THE ORIGINAL HEIGHT OF THE DAM IS REACHED.
4. WHEN CHECK DAMS ARE REMOVED THE CHANNEL LINING OR VEGETATION IS TO BE RESTORED.

City of Colorado Springs Stormwater Quality Figure CD-1 Check Dam Construction Detail and Maintenance Requirements

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**Stabilized Staging Area (SSA) SM-6**

**SSA-1. STABILIZED STAGING AREA**

**STABILIZED STAGING AREA INSTALLATION NOTES**

1. SEE PLAN FOR:
  - LOCATION OF STAGING AREA(S).
  - CONSTRUCTION MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
2. STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
3. STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
4. THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
5. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, MS10 #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

**STABILIZED STAGING AREA MAINTENANCE NOTES**

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROMPT, NOT DEFERRED. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY IF FITTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

City of Colorado Springs Stormwater Quality Figure TS-1 Temporary Seeding Construction Detail and Maintenance Requirements

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SSA-3

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**Stabilized Staging Area (SSA) SM-6**

**STABILIZED STAGING AREA MAINTENANCE NOTES**

5. STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
6. THE STABILIZED STAGING AREA SHALL BE REMOVED AT THE END OF CONSTRUCTION. THE GRANULAR MATERIAL SHALL BE REMOVED OR, IF APPROVED BY THE LOCAL JURISDICTION, USED ON SITE, AND THE AREA COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED IN A MANNER APPROVED BY LOCAL JURISDICTION.

**NOTE: MANY JURISDICTIONS PROHIBIT THE USE OF RECYCLED CONCRETE AS GRANULAR MATERIAL FOR STABILIZED STAGING AREAS DUE TO DIFFICULTIES WITH RE-ESTABLISHMENT OF VEGETATION IN AREAS WHERE RECYCLED CONCRETE WAS PLACED.**

**NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAILS SHOULD BE USED WHEN DIFFERENCES ARE NOTED.**

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO, NOT AVAILABLE IN AUTOCAD)

City of Colorado Springs Stormwater Quality Figure SB-1 Sediment Basin Construction Detail and Maintenance Requirements

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**STOCKPILE PROTECTION PLAN**

**STOCKPILE PROTECTION ELEVATION**

**INSTALLATION NOTES**

1. INSTALL PERIMETER CONTROL AROUND STOCKPILE ON DOWNWIND SIDE.
2. PERIMETER CONTROL MUST BE SUITABLE TO SITE CONDITIONS AND INSTALLED ACCORDING TO THE RELEVANT DETAIL.
3. PERIMETER CONTROL SHALL BE PLACED AT A MINIMUM OF 5' FROM THE PERIMETER CONTROL DETAIL.

**MAINTENANCE NOTES**

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. IF PERIMETER CONTROLS MUST BE MOVED TO ACCESS STOCKPILE, REPLACE PERIMETER CONTROLS BY THE END OF THE WORK DAY.
3. ACCUMULATED SEDIMENT MUST BE REMOVED ACCORDING TO PERIMETER CONTROL DETAIL.

City of Colorado Springs Stormwater Quality Figure CD-2 Check Dam Construction Detail and Maintenance Requirements

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3

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**PORTABLE TOILET PLAN**

**ISOMETRIC**

**INSTALLATION NOTES**

1. PORTABLE TOILETS SHALL BE PLACED A MINIMUM OF 10 FEET BEHIND ALL CURBS, PERIMETER CONTROL MEASURES AND INTERIOR AREAS. SO FEET FROM STORM INLETS, AND 100' FROM WATERWAYS.
2. PORTABLE TOILETS IN THE RIGHT-OF-WAY ARE REQUIRED TO BE PLACED ON MOBILE TRAILERS AND MUST BE ANCHORED OR WEIGHTED DOWN. PORTABLE TOILETS MAY BE INSTALLED IN ACCORDANCE WITH NOTE #1 IN STAGING AREAS/PIPS.
3. PORTABLE TOILETS SHALL BE SECURELY ANCHORED TO THE GROUND USING U-SHAPED REBAR STAPLES OR OTHER EFFECTIVE ANCHORING.
4. ANCHORING SHALL BE POSITIONED ON AT LEAST TWO OPPOSING (DIAGONAL) CORNERS.
5. TOILET CONTAMINANT PANS MAY BE USED IN PLACE OF A TRAILER AT THE DISCRETION OF THE INSPECTOR. TOILET CONTAMINANT PANS MUST BE ANCHORED IN PLACE AND MUST NOT BE USED WITHIN THE CITY BLOCK.

**MAINTENANCE NOTES**

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. PORTABLE TOILETS SHALL BE SERVICED AT THE NECESSARY INTERVALS TO ELIMINATE THE POSSIBILITY OF OVERFLOW.
3. WHEN THE PORTABLE TOILETS ARE REMOVED, ANY DISTURBED AREAS ASSOCIATED WITH THE INSTALLATION, MAINTENANCE, AND/OR REMOVAL OF THE TOILETS MUST BE PERMANENTLY STABILIZED.

City of Colorado Springs Stormwater Quality Figure CD-3 Portable Toilet Construction Detail and Maintenance Requirements

November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3

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**MULCHING NOTES**

**INSTALLATION REQUIREMENTS**

1. ALL DISTURBED AREAS MUST BE MULCHED WITHIN 31 DAYS AFTER FINAL GRADE AND SEEDING AREAS ARE TO BE MULCHED WITHIN 24 HOURS AFTER SEEDING.
2. MATERIAL USED FOR MULCH CAN BE CERTIFIED CLEAN, WEED- AND SEED-FREE LONG STEMMED FELD OR MARSH HAY, OR STRAW OF OATS, BARLEY, WHEAT, RYE, OR TRITICALE. CERTIFIED BY THE COLORADO DEPARTMENT OF AGRICULTURE WEED-FREE FORAGE CERTIFICATION PROGRAM.
3. HYDRAULIC MULCHING MATERIAL SHALL CONSIST OF VIRGIN WOOD CHIPS MANUFACTURED FROM CLEAN HWS 2" WOOD CHIPS. WOOD CHIPS CANNOT CONTAIN ANY GROWTH OR GERMINATION INHIBITORS OR BE PRODUCED FROM RECYCLED MATERIAL. GRAVEL CAN ALSO BE USED.
4. MULCH IS TO BE APPLIED EVENLY AT A RATE OF 2 TONS PER ACRE.
5. MULCH IS TO BE ANCHORED EITHER BY CRIMPING (CRIMPING MULCH FIBERS 4 INCHES INTO THE SOIL USING NETTING (USED ON SMALL AREAS WITH STEEP SLOPES), OR WITH A TACKLER.
6. HYDRAULIC MULCHING AND TACKLERS ARE NOT TO BE USED IN THE PRESENCE OF FREE SURFACE WATER.

**MAINTENANCE REQUIREMENTS**

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL MULCHED AREAS.
2. MULCH IS TO BE REPLACED IMMEDIATELY IN THOSE AREAS IT HAS BEEN REMOVED, AND IF NECESSARY THE AREA SHOULD BE RESEEDED.

City of Colorado Springs Stormwater Quality Figure MU-1 Mulching Construction Detail and Maintenance Requirements

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**RECOMMENDED ANNUAL GRASSES**

SPECIES (COMMON NAME)	GROWTH SEASON	SEEDING DATE	POUNDS OF PURE LIVE SEED (PLS) PER ACRE OF DRAINAGE AREA	PLANTING DEPTH (INCHES)
1. OATS	COOL	MARCH 16 - APRIL 30	35-50	1-2
2. SPRING WHEAT	COOL	MARCH 16 - APRIL 30	25-35	1-2
3. SPRING BARLEY	COOL	MARCH 16 - APRIL 30	25-35	1-2
4. ANNUAL PERGRASS	COOL	MARCH 16 - JUNE 30	10-15	1-2
5. MILLET	WARM	MAY 16 - JULY 15	3-15	1/2-3/4
6. SUDANGRASS	WARM	MAY 16 - JULY 15	5-10	1/2-3/4
7. BORGHUM	WARM	MAY 16 - JULY 15	5-10	1/2-3/4
8. WINTER WHEAT	COOL	SEPTEMBER 1 - 30	20-35	1-2
9. WINTER BARLEY	COOL	SEPTEMBER 1 - 30	20-35	1-2
10. WINTER RYE	COOL	SEPTEMBER 1 - 30	20-35	1-2
11. TRITICALE	COOL	SEPTEMBER 1 - 30	25-40	1-2

THIS TABLE WAS TAKEN FROM UDFCD FOR RECOMMENDED ANNUAL GRASSES FOR THE DENVER METROPOLITAN AREA. THIS TABLE MAY BE USED UNLESS A SITE-SPECIFIC SEED IS REQUESTED AND APPROVED.

**TABLES TS-1**

**TEMPORARY SEEDING NOTES**

**INSTALLATION REQUIREMENTS**

1. DISTURBED AREAS ARE TO BE SEEDED WITHIN 31 DAYS AFTER CONSTRUCTION ACTIVITY OR GRADING ENDS IF SEASON ALLOWS.
2. IF NECESSARY, SOIL IS TO BE CONDITIONED FOR PLANT GROWTH BY APPLYING TOPSOIL, FERTILIZER, OR LIME.
3. SOIL IS TO BE FLOO IMMEDIATELY PRIOR TO APPLYING SEEDS. COMPACT SOILS ESPECIALLY NEED TO BE LOOSENED.
4. SEEDING DEPTH IS TO BE 4 INCHES FOR SLOPES FLATTER THAN 2:1, AND 1 INCH FOR SLOPES STEEPER THAN 2:1.
5. ANNUAL GRASSES LISTED IN TABLE TS-1 ARE TO BE USED FOR TEMPORARY SEEDING. SEED MIXES ARE NOT TO CONTAIN ANY WOOD-VIRED SEEDS INCLUDING RUSSIAN OR CANADIAN THRISTLE, KNOWNWEEED, PURPLE LOOSESTRIFE, EUROPEAN BINDERWEEED, JOHNSON GRASS, AND LEAFY SPURGE.
6. TABLE TS-1 ALSO PROVIDES REQUIREMENTS FOR SEEDING RATES, SEEDING DATES, AND PLANTING DEPTHS FOR THE APPROVED TYPES OF ANNUAL GRASSES.
7. SEEDING IS TO BE APPLIED USING MECHANICAL TYPE DRILLS EXCEPT WHERE SLOPES ARE STEEP OR ACCESS IS LIMITED THEN HYDRAULIC SEEDING MAY BE USED.
8. ALL SEEDING AREAS ARE TO BE MULCHED (SEE FACTSHEET ON MULCHING).
9. IF HYDRAULIC SEEDING IS USED THEN HYDRAULIC MULCHING SHALL BE DONE SEPARATELY TO AVOID SEEDS BECOMING ENCAPSULATED IN THE MULCH.

**MAINTENANCE REQUIREMENTS**

1. REGULAR INSPECTIONS ARE TO BE MADE OF ALL SEEDING AREAS TO ENSURE GROWTH.
2. AREAS WHERE GROWTH IS NOT OCCURRING QUICKLY OR THE MULCH HAS BEEN REMOVED SHALL BE RESEED AS SOON AS POSSIBLE AND RE-MULCHED IF NEEDED.
3. SEEDING AREAS ARE NOT TO BE DRIVEN OVER WITH CONSTRUCTION EQUIPMENT OR VEHICLES.

City of Colorado Springs Stormwater Quality Figure TS-1 Temporary Seeding Construction Detail and Maintenance Requirements

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**BASIN GEOMETRY:**  
LENGTH (L) = 2:2  
WIDTH (W) = 2:2

**REQUIRED VOLUME TO CREST**  
OF EMERGENCY SPILLWAY  
= 1000 CUBIC FEET PER  
ACRE OF DRAINAGE AREA

**INSTALLATION REQUIREMENTS**

1. SEDIMENT BASIN SHALL BE INSTALLED BEFORE ANY CLEARING AND/OR GRADING IS UNDERTAKEN.
2. THE AREA UNDER WHICH THE EMBANKMENT IS TO BE INSTALLED SHALL BE CLEARED, GRUBBED, AND STRIPPED OF ALL VEGETATION AND ROOT MAT.
3. THE OUTLET OF THE BASIN SHALL BE DESIGNED TO DRAIN 75% VOLUME IN 40 HOURS.
4. THE OUTLET IS TO BE LOCATED AT THE FURTHEST DISTANCE FROM THE INLET OF THE BASIN. IMPALES MAY BE NEEDED TO INCREASE THE FLOW LENGTH AND SETTLING TIME.
5. EMBANKMENT MATERIAL SHALL CONSIST OF SOIL WITH A MINIMUM OF 10% PASSING A #20 SIEVE. EROSION CONTROL CAN BE USED IF IT MEETS THIS REQUIREMENT.
6. EMBANKMENT IS TO BE COMPACTED TO AT LEAST 80% OF MAXIMUM DENSITY AND WITHIN 2% OF OPTIMUM MOISTURE CONTENT ACCORDING TO ASTM D 698.
7. WHEN A BASIN IS INSTALLED NEAR A RESIDENTIAL AREA FOR SAFETY REASONS A SIGN SHALL BE POSTED AND THE AREA SECURED WITH A FENCE.

**MAINTENANCE REQUIREMENTS**

1. CONTRACTOR SHALL INSPECT SEDIMENT BASINS AFTER EACH RAINFALL AT LEAST DAILY DURING PERIODS OF PROLONGED RAINFALL, AND WEEKLY DURING PERIODS OF NO RAINFALL.
2. SEDIMENT BASINS SHALL BE CLEARED OUT BEFORE SEDIMENT HAS FILLED HALF THE VOLUME OF THE BASIN.
3. SEDIMENT BASINS SHALL REMAIN OPERATIONAL AND PROPERLY MAINTAINED UNTIL THE SITE AREA IS PERMANENTLY STABILIZED WITH ADEQUATE VEGETATIVE COVER AND/OR OTHER PERMANENT STRUCTURE AS APPROVED BY THE CITY.

City of Colorado Springs Stormwater Quality Figure SB-1 Sediment Basin Construction Detail and Maintenance Requirements

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**Curb Inlet Protection**

**TABLE SB-1**

Required Area per Row (ft²)	Depth at Outlet (ft)							
	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5
2	18.04	7.71	5.10	3.78	2.96	2.41	2.02	1.73
4	4.51	2.31	1.53	1.13	0.88	0.72	0.61	0.52
6	3.01	1.54	1.02	0.75	0.59	0.48	0.40	0.35
8	2.26	1.16	0.77	0.57	0.44	0.36	0.29	0.27
10	1.78	0.90	0.59	0.42	0.33	0.27	0.22	0.20
12	1.42	0.72	0.47	0.34	0.27	0.22	0.18	0.16
14	1.14	0.59	0.39	0.28	0.22	0.18	0.14	0.13
16	0.93	0.48	0.31	0.22	0.17	0.14	0.11	0.10
18	0.79	0.41	0.26	0.19	0.14	0.11	0.08	0.08
20	0.69	0.35	0.22	0.16	0.12	0.10	0.08	0.07
25	0.49	0.25	0.16	0.11	0.08	0.07	0.06	0.05
30	0.38	0.19	0.12	0.08	0.06	0.05	0.04	0.04
35	0.31	0.15	0.10	0.07	0.05	0.04	0.03	0.03
40	0.26	0.12	0.08	0.06	0.04	0.03	0.02	0.02
45	0.22	0.10	0.06	0.04	0.03	0.02	0.02	0.02
50	0.19	0.08	0.05	0.03	0.02	0.02	0.01	0.01

**TABLE SB-2**

Orchard Perforation Sizing Hole Diameter (in)	Hole Diameter (in)	Area per Row (ft²)		
		n = 1	n = 2	n = 3
60	60	0.06	0.10	0.15
14	0.396	0.05	0.10	0.15
9/16	0.5625	0.08	0.15	0.23
3/8	0.375	0.11	0.22	0.33
7/16	0.438	0.15	0.30	0.45
1/2	0.500	0.20	0.39	0.59
9/8	0.625	0.28	0.53	0.79
5/8	0.625	0.31	0.61	0.92
11/16	0.688	0.37	0.74	1.11
3/4	0.750	0.44	0.88	1.33
7/8	0.875	0.60	1.20	1.80
1	1.000	0.78	1.57	2.36
1 1/8	1.125	0.98	1.99	2.98
1 1/4	1.250	1.23	2.45	3.68
1 3/8	1.375	1.48	2.97	4.45
1 1/2	1.500	1.77	3.53	5.30
1 5/8	1.625	2.07	4.15	6.22
1 3/4	1.750	2.41	4.81	7.22
1 7/8	1.875	2.76	5.52	8.28
2	2.000	3.14	6.28	9.42

City of Colorado Springs Stormwater Quality Figure SB-2 Outlet Sizing Application Technique and Maintenance Requirements

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**CURB INLET PROTECTION PLAN**

**SECTION A-A'**

**CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION**

**INSTALLATION NOTES**

1. SEE ROCK SOCK DETAIL FOR INSTALLATION REQUIREMENTS.
2. PLACEMENT OF THE ROCK SOCK SHALL BE APPROXIMATELY 40 DEGREES FROM THE CURB.
3. ROCK SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5' APART.
4. AT LEAST TWO CURB ROCK SOCKS IN SERIES ARE REQUIRED UPSTREAM OF CURB-GARDEN INLETS.
5. ADDITIONAL ROCK SOCKS MAY BE REQUIRED AT GEC INSPECTOR'S DISCRETION.

**MAINTENANCE NOTES**

1. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
2. ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 2/3 OF THE DESIGN DEPTH OF THE INLET BARRIER.
3. ROCK SOCKS MUST REMAIN UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED.
4. PERMANENTLY STABILIZE AREA BEHIND INLET AFTER ROCK SOCKS ARE REMOVED WHEN REMOVAL IS APPROPRIATE.

City of Colorado Springs Stormwater Quality Figure IP-1 On-Grade Inlet Protection Application Technique and Maintenance Requirements

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If a TSB is proposed please specify on the plans - see comments on the GEC Planview.

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HRGreen - COLORADO SPRINGS  
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**CURB INLET PROTECTION PLAN**

**SECTION A-A'**

**CURB ROCK SOCKS UPSTREAM OF INLET PROTECTION**

**INSTALLATION NOTES:**

- SEE ROCK SOCK DETAIL FOR INSTALLATION REQUIREMENTS.
- PLACEMENT OF THE ROCK SOCK SHALL BE APPROXIMATELY 40 DEGREES FROM THE CURB.
- ROCK SOCKS ARE TO BE FLUSH WITH THE CURB AND SPACED A MINIMUM OF 5' APART. AT LEAST TWO CURB ROCK SOCKS IN SERIES ARE REQUIRED UPSTREAM OF ON-GRADE INLETS.
- ADDITIONAL ROCK SOCKS MAY BE REQUIRED AT GEC INSPECTOR'S DISCRETION.

**MAINTENANCE NOTES:**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 3/4 OF THE DESIGN DEPTH OF THE INLET BARRIER.
- ROCK SOCKS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
- PERMANENTLY STABILIZE AREA BEHIND INLET AFTER ROCK SOCKS ARE REMOVED WHEN REMOVAL IS APPROPRIATE.

**ON-GRADE INLET PROTECTION**

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DESIGN NO: 2202774

DRAWING NO: 900-P-1

**ROCK SOCK SUMP INLET PROTECTION PLAN**

**SECTION A-A'**

**INSTALLATION NOTES:**

- SEE ROCK SOCK DETAIL FOR INSTALLATION REQUIREMENTS.
- SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS IN PREVIOUS AREAS.
- INSTALL PER SEDIMENT CONTROL LOG DETAIL.
- CONTROL MEASURES MUST BE WRAPPED AROUND INLET AS TIGHTLY AS POSSIBLE.

**MAINTENANCE NOTES:**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 3/4 OF THE DESIGN DEPTH OF THE INLET BARRIER.
- ROCK SOCKS MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
- PERMANENTLY STABILIZE AREA AROUND INLET AFTER ROCK SOCKS ARE REMOVED WHEN REMOVAL IS APPROPRIATE.

**SUMP INLET PROTECTION**

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DATE: 8/25/23

DESIGN NO: 2202774

DRAWING NO: 900-P-2

**SILT FENCE SUMP INLET PROTECTION PLAN**

**SECTION A-A'**

**INSTALLATION NOTES:**

- SEE SILT FENCE DETAIL FOR INSTALLATION REQUIREMENTS.
- POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF THREE FEET.
- SILT FENCE FABRIC SHOULD HAVE A FLOW RATE IN EXCESS OF 30 GALLONS PER MINUTE PER SQUARE YARD SO AS TO ALLOW SOME WATER FLOW AND NOT DAM THE WATER. STANDARD, LOW-FLOW SILT FENCE FABRIC WILL NOT BE ALLOWED.

**MAINTENANCE NOTES:**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 3/4 OF THE DESIGN DEPTH OF THE INLET BARRIER.
- SILT FENCE MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
- PERMANENTLY STABILIZE AREA AROUND INLET AFTER SILT FENCE IS REMOVED WHEN REMOVAL IS APPROPRIATE.

**SUMP INLET PROTECTION**

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DATE: 8/25/23

DESIGN NO: 2202774

DRAWING NO: 900-P-3

**STRAW BALE SUMP INLET PROTECTION PLAN**

**SECTION A-A'**

**INSTALLATION NOTES:**

- BALES SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH THE ENDS OF THE BALES TIGHTLY ABUTTING ONE ANOTHER.
- STRAW BALES SHALL CONSIST OF CERTIFIED, WEED FREE STRAW OR HAY. LOCAL JURISDICTIONS MAY REQUIRE PROOF THAT BALES ARE WEED FREE.
- STRAW BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF STRAW OR HAY AND WEIGH NOT LESS THAN 35 POUNDS.
- STRAW BALE DIMENSIONS SHALL BE APPROXIMATELY 36"X18"X18".
- A UNIFORM ANCHOR TRENCH SHALL BE EXCAVATED TO A DEPTH OF 4". STRAW BALES SHALL BE PLACED SO THAT THE BINDING TIME IS ENCOMPASSING THE VERTICAL SIDES OF THE BALES.
- TWO (2) WOODEN STAKES SHALL BE USED TO HOLD EACH BALE IN PLACE. WOODEN STAKES SHALL BE 2"x2"x24" (MIN.) WOODEN STAKES SHALL BE DRIVEN A MINIMUM OF 6" INTO THE GROUND.

**MAINTENANCE NOTES:**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT MUST BE REMOVED WHEN THE HEIGHT REACHES 3/4 OF THE DESIGN DEPTH OF THE INLET BARRIER.
- STRAW BALES MUST REMAIN UNTIL THE UPSTREAM DISTURBANCE AREA IS STABILIZED.
- PERMANENTLY STABILIZE AREA AROUND INLET AFTER STRAW BALES ARE REMOVED WHEN REMOVAL IS APPROPRIATE.
- STRAW BALES SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, ROTTEN OR DAMAGED BEYOND REPAIR.

**SUMP INLET PROTECTION**

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DATE: 8/25/23

DESIGN NO: 2202774

DRAWING NO: 900-P-4

**CULVERT INLET PROTECTION PLAN**

**SECTION A-A'**

**SECTION B-B'**

**INSTALLATION NOTES:**

- SEE ROCK SOCK DETAIL.

**MAINTENANCE NOTES:**

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- ACCUMULATED SEDIMENT UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 3/4 HEIGHT OF THE ROCK SOCK.
- CULVERT INLET PROTECTION SHALL REMAIN UNTIL THE UPSTREAM AREA IS PERMANENTLY STABILIZED.

**CULVERT INLET PROTECTION**

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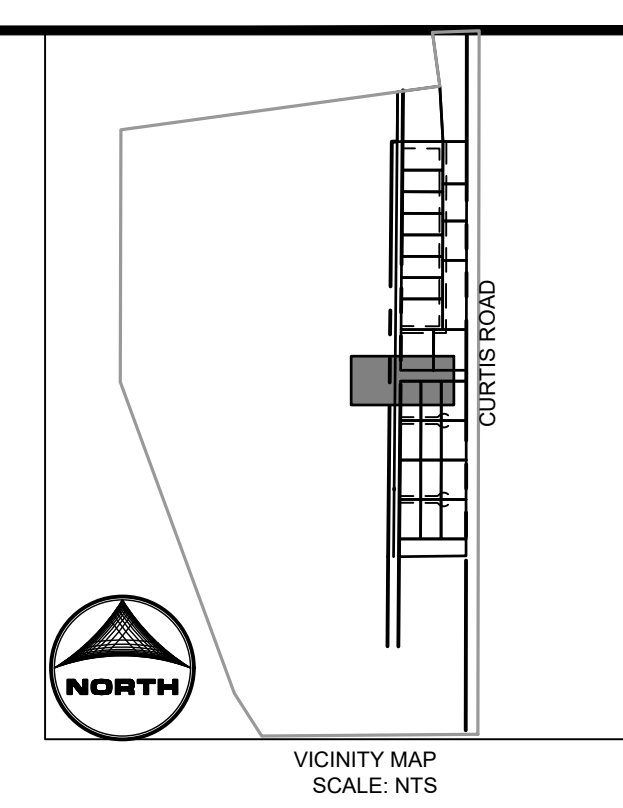
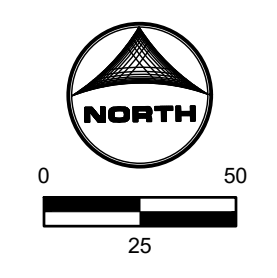
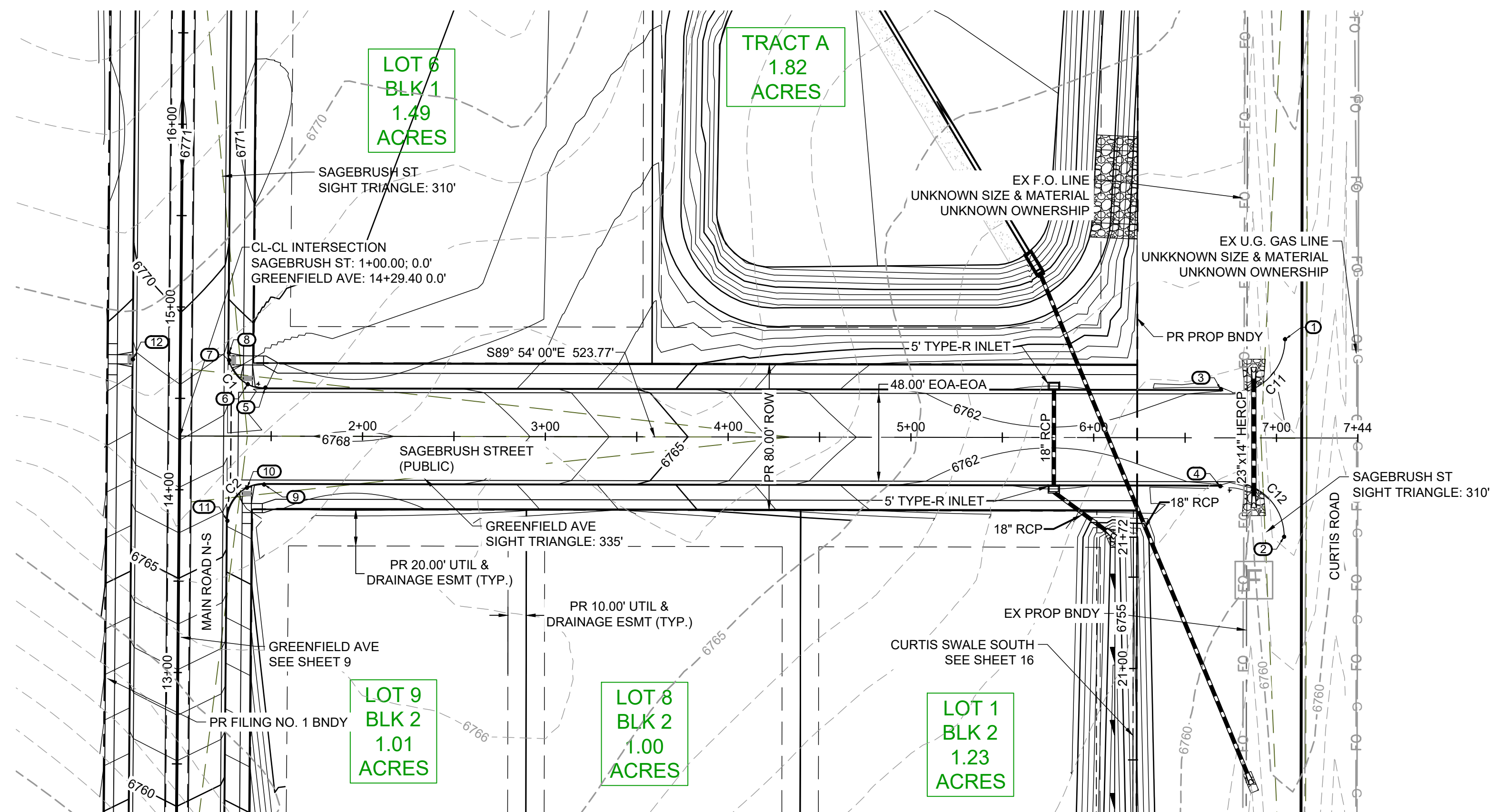
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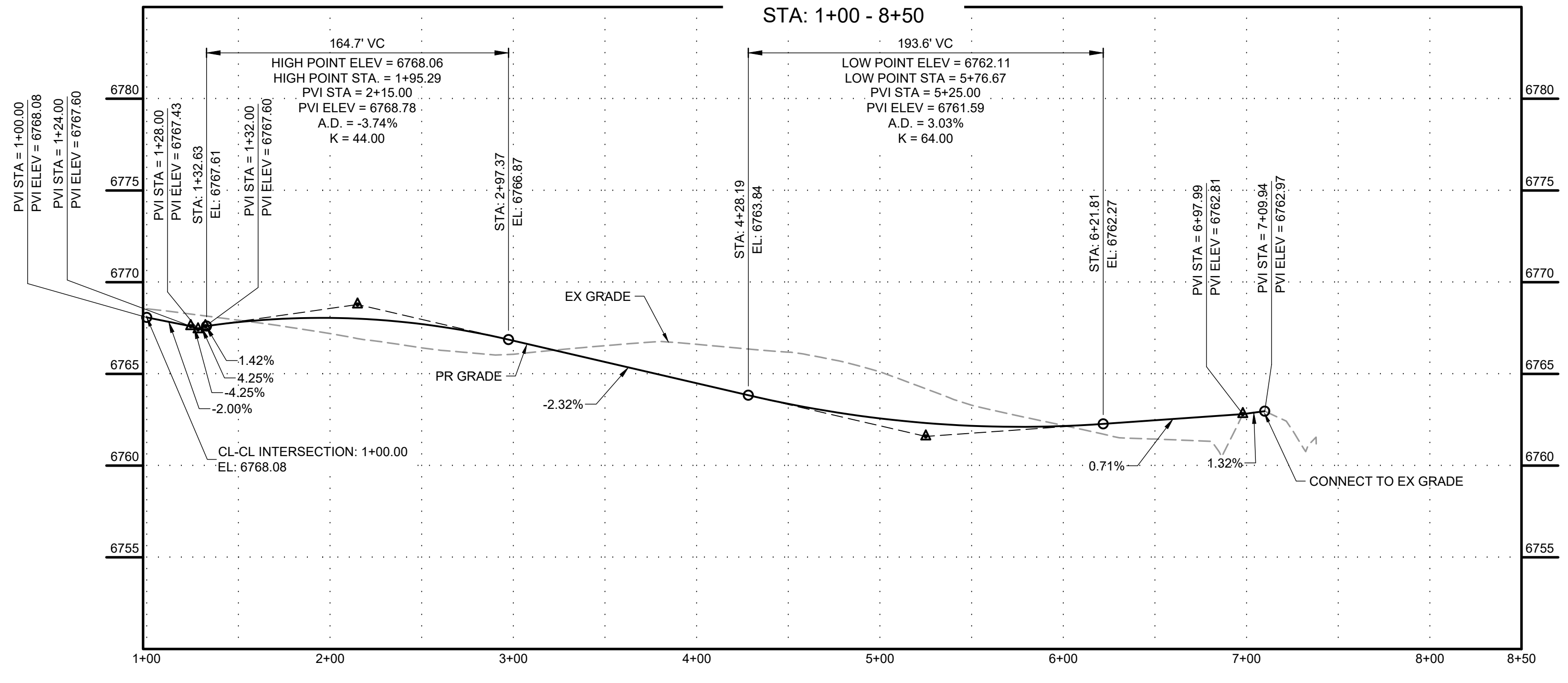
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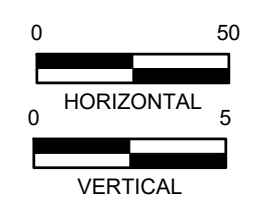


SAGEBRUSH STREET  
STA: 1+00 - 8+50



Curve Table				
Curve #	Length	Radius	Delta	Centerline/Flowline
C1	32.34	20.50	90°23'28"	Flowline
C2	32.06	20.50	89°36'32"	Flowline

POINT TABLE				
No.	DESC.	ALIGNMENT	STATION & OFFSET	FL EL.
1	MATCH EX ±	SAGEBRUSH ST	7+04.60 (-53.96' L)	6763.61
2	MATCH EX ±	SAGEBRUSH ST	7+04.32 (54.14' R)	6762.09
3	BEGIN TYPE 2 C&G	SAGEBRUSH ST	6+69.60 (-26.50' L)	6762.46
4	BEGIN TYPE 2 C&G	SAGEBRUSH ST	6+69.33 (26.50' R)	6762.46
5	PCR	SAGEBRUSH ST	1+46.82 (-26.50' L)	6768.00
6	HC RAMP MP	SAGEBRUSH ST	1+37.19 (-28.40' L)	6768.44
7	HC RAMP MP	SAGEBRUSH ST	1+26.93 (-41.51' L)	6769.29
8	PCR	SAGEBRUSH ST	1+26.84 (-45.52' L)	6769.34
9	PCR	SAGEBRUSH ST	1+46.18 (26.50' R)	6767.12
10	HC RAMP MP	SAGEBRUSH ST	1+36.81 (28.27' R)	6767.15
11	PCR	SAGEBRUSH ST	1+26.18 (46.36' R)	6766.13
12	HC RAMP MP	GREENFIELD AVE	14+71.09 (-26.00' L)	6768.73



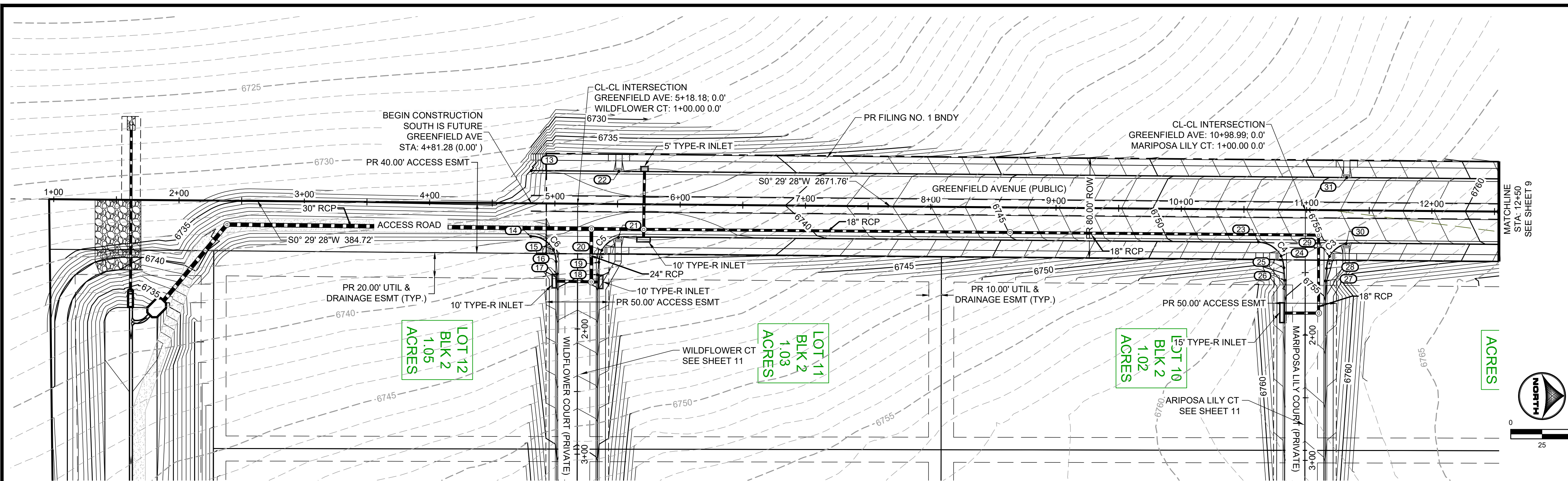
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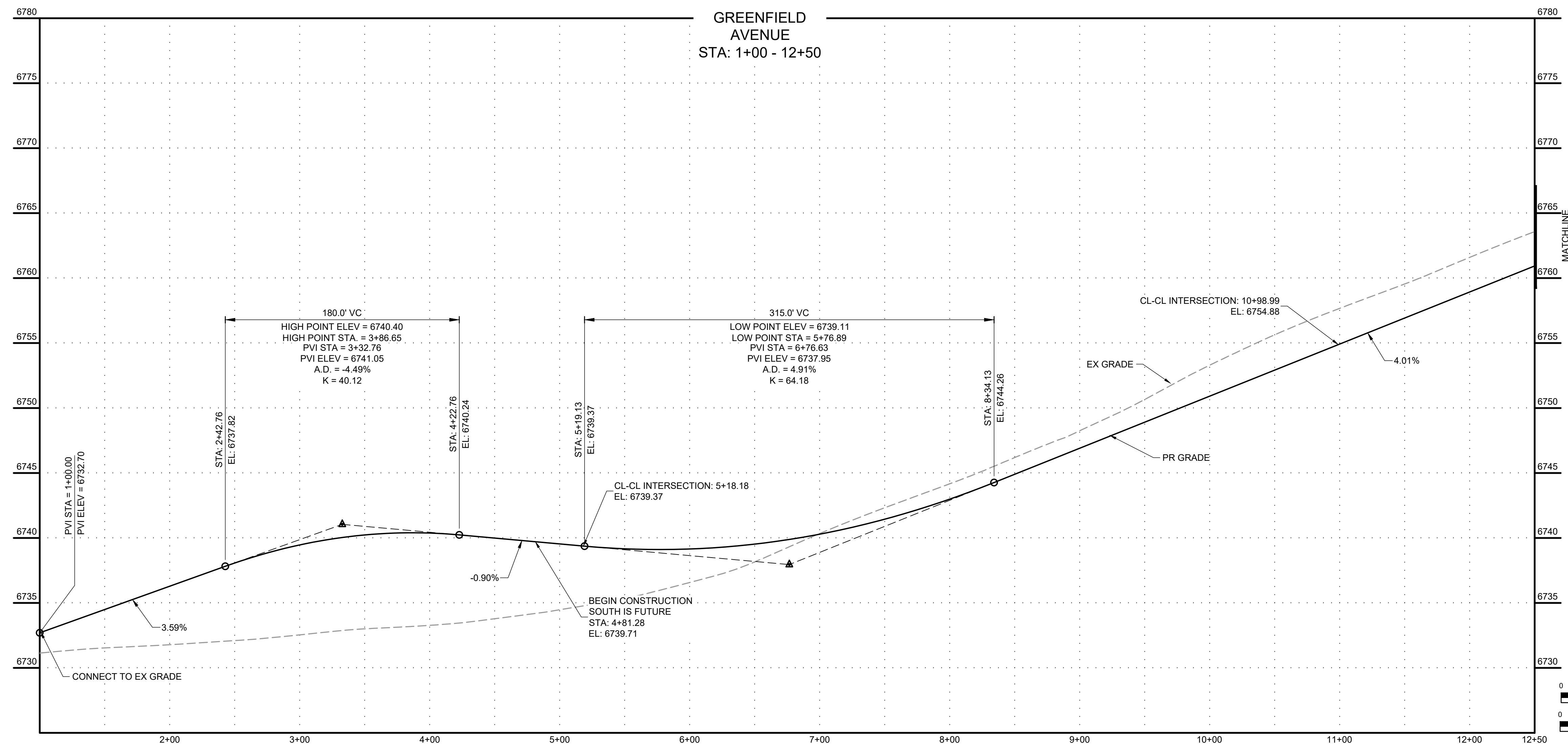


**Curve Table**

Curve #	Length	Radius	Delta	Centerline/Flowline
C3	32.34	20.50	90°23'28"	Flowline
C4	32.06	20.50	89°36'32"	Flowline
C5	32.34	20.50	90°23'28"	Flowline
C6	32.06	20.50	89°36'32"	Flowline

**POINT TABLE**

No.	DESC.	ALIGNMENT	STATION & OFFSET	FL. EL.
13	BEGIN TYPE A C&G	GREENFIELD AVE	4+80.99 (-26.00' L)	6735.18
14	BEGIN TYPE A C&G	GREENFIELD AVE	4+80.99 (26.50' R)	6738.18
15	HC RAMP MP	GREENFIELD AVE	4+99.16 (37.00' R)	6738.82
16	END TYPE A C&G	GREENFIELD AVE	5+01.49 (46.36' R)	6739.38
17	END TYPE C C&G	WILDFLOWER CT	1+56.21 (16.17' R)	6739.51
18	END TYPE C C&G	WILDFLOWER CT	1+56.72 (-16.17' L)	6739.53
19	END TYPE A C&G	GREENFIELD AVE	5+35.49 (46.64' R)	6739.40
20	HC RAMP MP	GREENFIELD AVE	5+37.83 (37.00' R)	6739.26
21	HC RAMP MP	GREENFIELD AVE	5+50.87 (26.65' R)	6739.02
22	HC RAMP MP	GREENFIELD AVE	5+50.87 (-26.00' L)	6738.52
23	PCR	GREENFIELD AVE	10+61.80 (25.92' R)	6752.75
24	HC RAMP MP	GREENFIELD AVE	10+79.97 (37.00' R)	6754.12
25	END TYPE A C&G	GREENFIELD AVE	10+82.31 (46.36' R)	6754.41
26	END TYPE C C&G	MARIPOSA LILY CT	1+56.21 (16.17' R)	6754.99
27	END TYPE C C&G	MARIPOSA LILY CT	1+56.72 (-16.17' L)	6754.63
28	END TYPE A C&G	GREENFIELD AVE	11+16.31 (46.64' R)	6754.68
29	HC RAMP MP	GREENFIELD AVE	11+18.64 (37.00' R)	6754.77
30	HC RAMP MP	GREENFIELD AVE	11+31.81 (26.62' R)	6756.05
31	HC RAMP MP	GREENFIELD AVE	11+31.81 (-26.00' L)	6755.55



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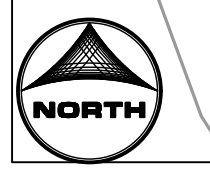
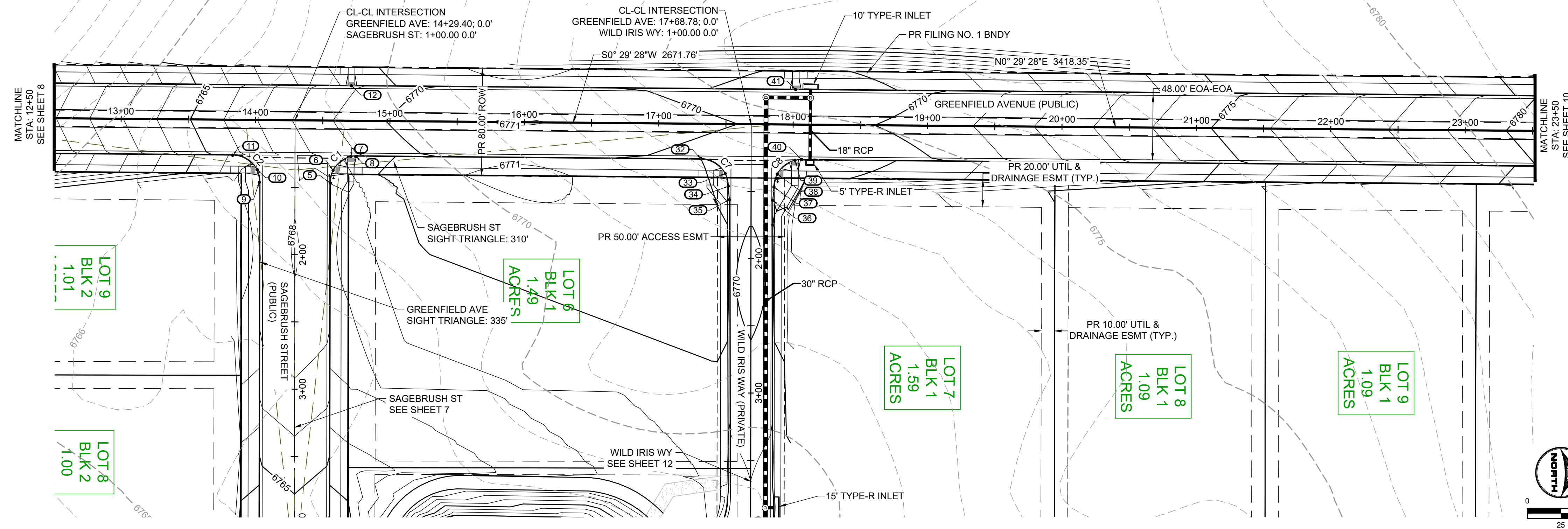
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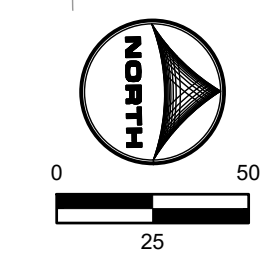
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 EL PASO COUNTY, CO

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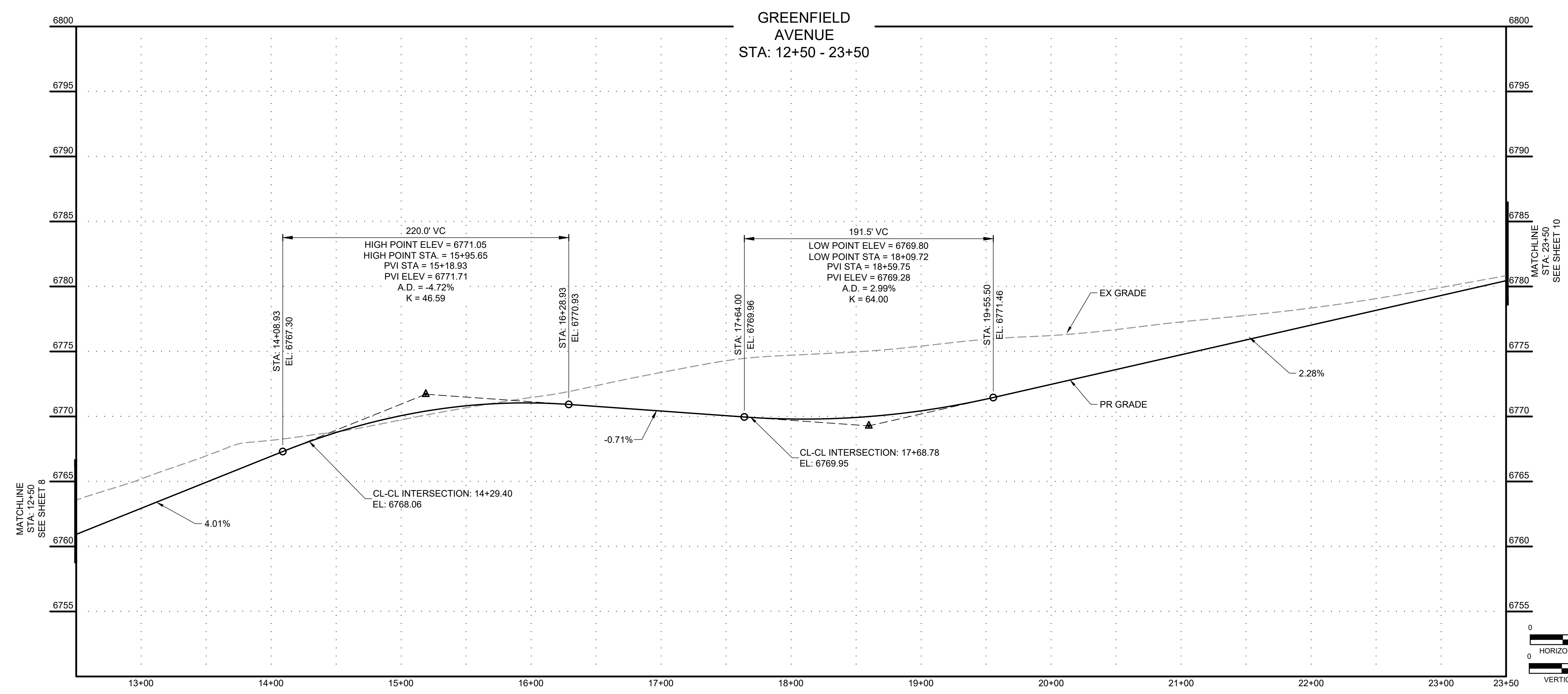




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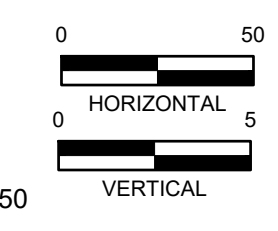


**GREENFIELD AVENUE**  
STA: 12+50 - 23+50



Curve Table				
Curve #	Length	Radius	Delta	Centerline/Flowline
C1	32.34	20.50	90°23'28"	Flowline
C2	32.06	20.50	89°36'32"	Flowline
C7	32.06	20.50	89°36'32"	Flowline
C8	32.34	20.50	90°23'28"	Flowline

POINT TABLE				
No.	DESC.	ALIGNMENT	STATION & OFFSET	FL. EL.
5	PCR	SAGEBRUSH ST	1+46.82 (-26.50' L)	6768.00
6	HC RAMP MP	SAGEBRUSH ST	1+37.19 (-28.40' L)	6768.44
7	HC RAMP MP	SAGEBRUSH ST	1+26.93 (-41.51' L)	6769.24
8	PCR	SAGEBRUSH ST	1+26.84 (-45.52' L)	6769.34
9	PCR	SAGEBRUSH ST	1+46.18 (26.50' R)	6767.12
10	HC RAMP MP	SAGEBRUSH ST	1+36.81 (28.27' R)	6767.15
11	PCR	SAGEBRUSH ST	1+26.18 (46.36' R)	6766.13
12	HC RAMP MP	GREENFIELD AVE	14+71.09 (-26.00' L)	6768.73
13	PCR	GREENFIELD AVE	17+31.60 (26.00' R)	6769.55
33	HC RAMP MP	GREENFIELD AVE	17+49.77 (37.00' R)	6769.61
34	END TYPE A C&G	GREENFIELD AVE	17+52.10 (46.36' R)	6769.63
35	END TYPE C C&G	GREENFIELD AVE	17+53.00 (56.32' R)	6769.66
37	BEGIN TYPE A C&G	GREENFIELD AVE	17+86.10 (46.64' R)	6769.40
38	HC RAMP MP	WILDFLOWER CT	1+45.67 (-1269.98' L)	6769.33
39	HC RAMP MP	WILDFLOWER CT	1+35.38 (-1283.22' L)	6769.19
40	PCR	WILDFLOWER CT	1+34.80 (-1288.22' L)	6769.15



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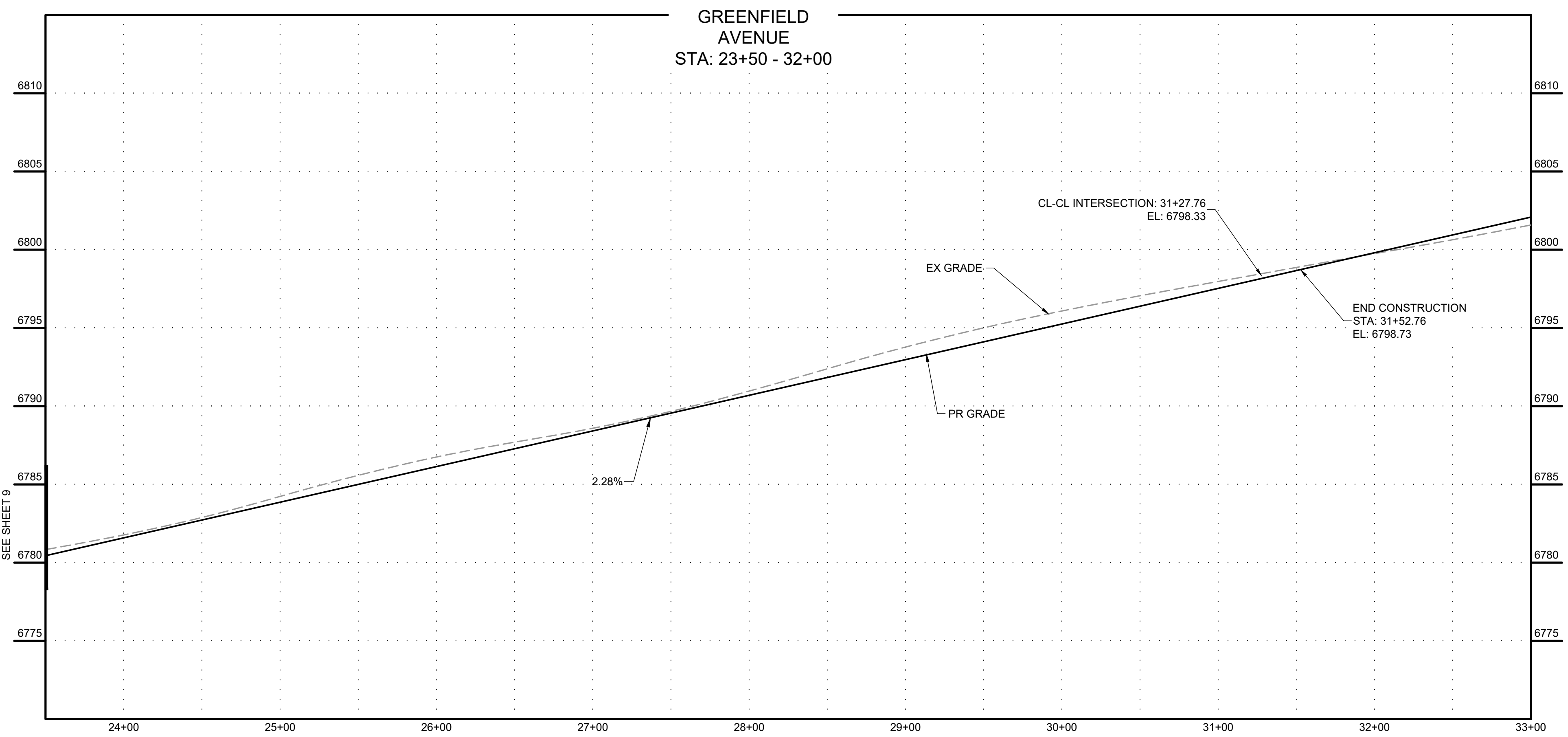
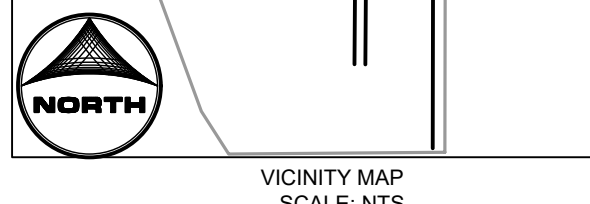
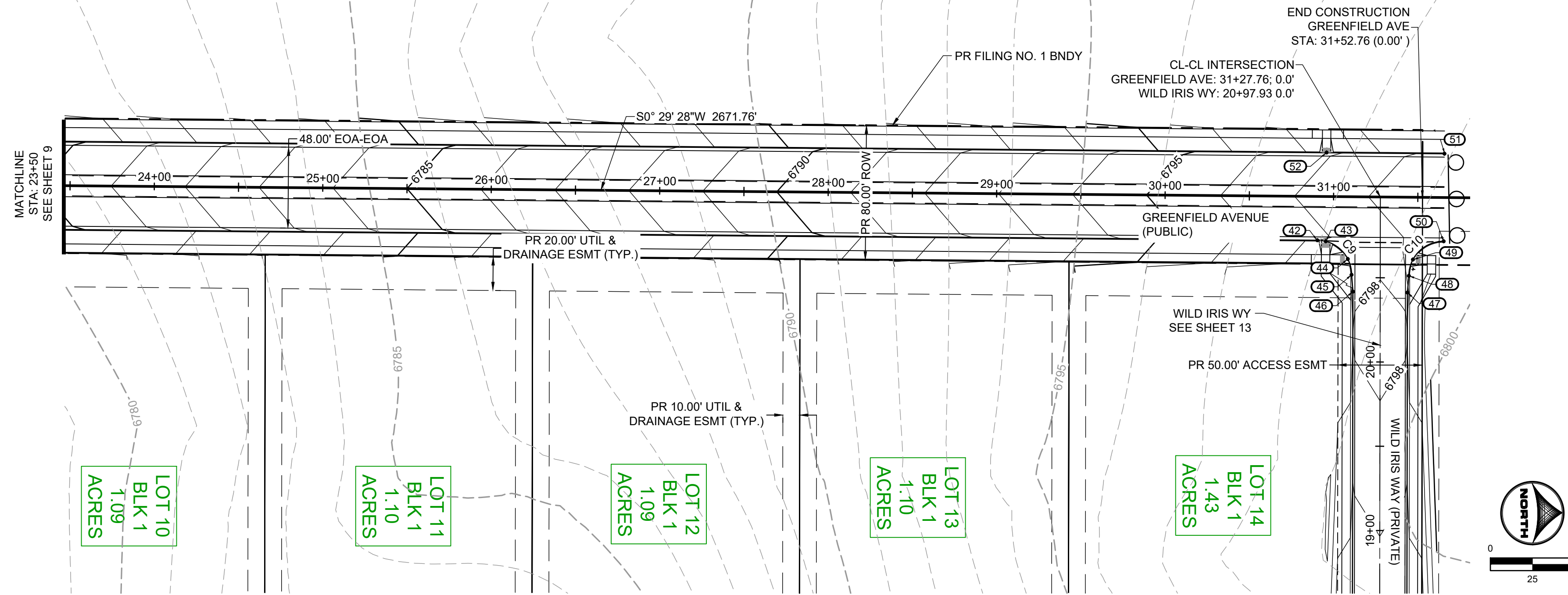
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Curve #	Length	Radius	Delta	Centerline/Flowline
C9	32.06	20.50	89°36'32"	Flowline
C10	32.34	20.50	90°23'28"	Flowline

No.	DESC.	ALIGNMENT	STATION & OFFSET	FL EL.
42	PCR	GREENFIELD AVE	30+90.57 (26.00' R)	6796.67
43	HC RAMP MP	GREENFIELD AVE	30+95.57 (26.62' R)	6797.13
44	HC RAMP MP	GREENFIELD AVE	31+08.74 (37.00' R)	6797.44
45	END TYPE A C&G	GREENFIELD AVE	31+11.07 (46.36' R)	6797.69
46	BEGIN TYPE C C&G	WILD IRIS WY	20+41.72 (-16.17' L)	6797.72
47	BEGIN TYPE C C&G	WILD IRIS WY	20+41.21 (16.17' R)	6797.73
48	END TYPE A C&G	GREENFIELD AVE	31+45.07 (46.64' R)	6798.11
49	HC RAMP MP	GREENFIELD AVE	31+47.41 (37.00' R)	6798.15
50	END TYPE A C&G	GREENFIELD AVE	31+65.57 (26.00' R)	6798.37
51	END TYPE A C&G	GREENFIELD AVE	31+65.57 (-26.00' L)	6798.93
52	HC RAMP MP	GREENFIELD AVE	30+95.64 (-26.05' L)	6797.00

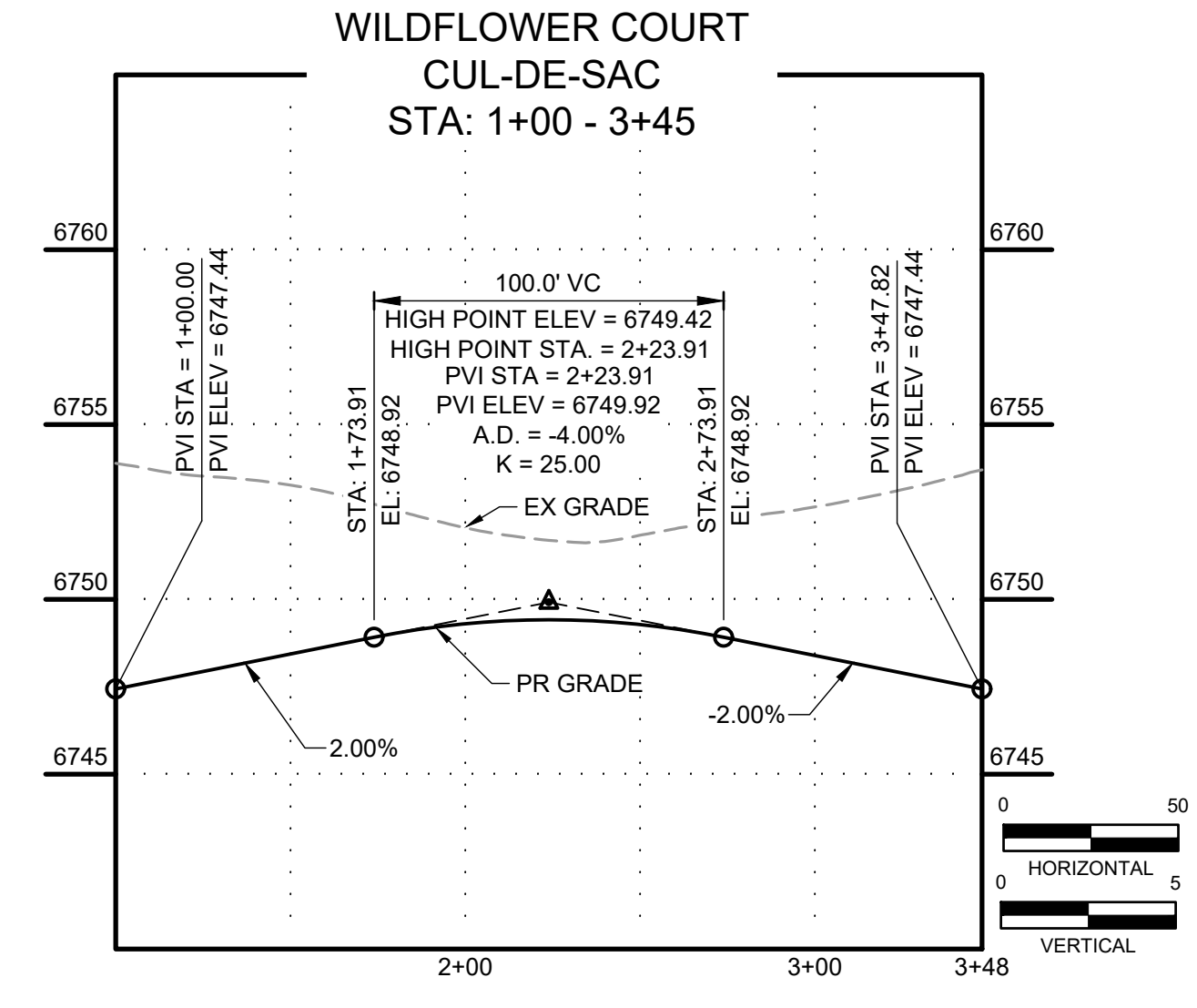
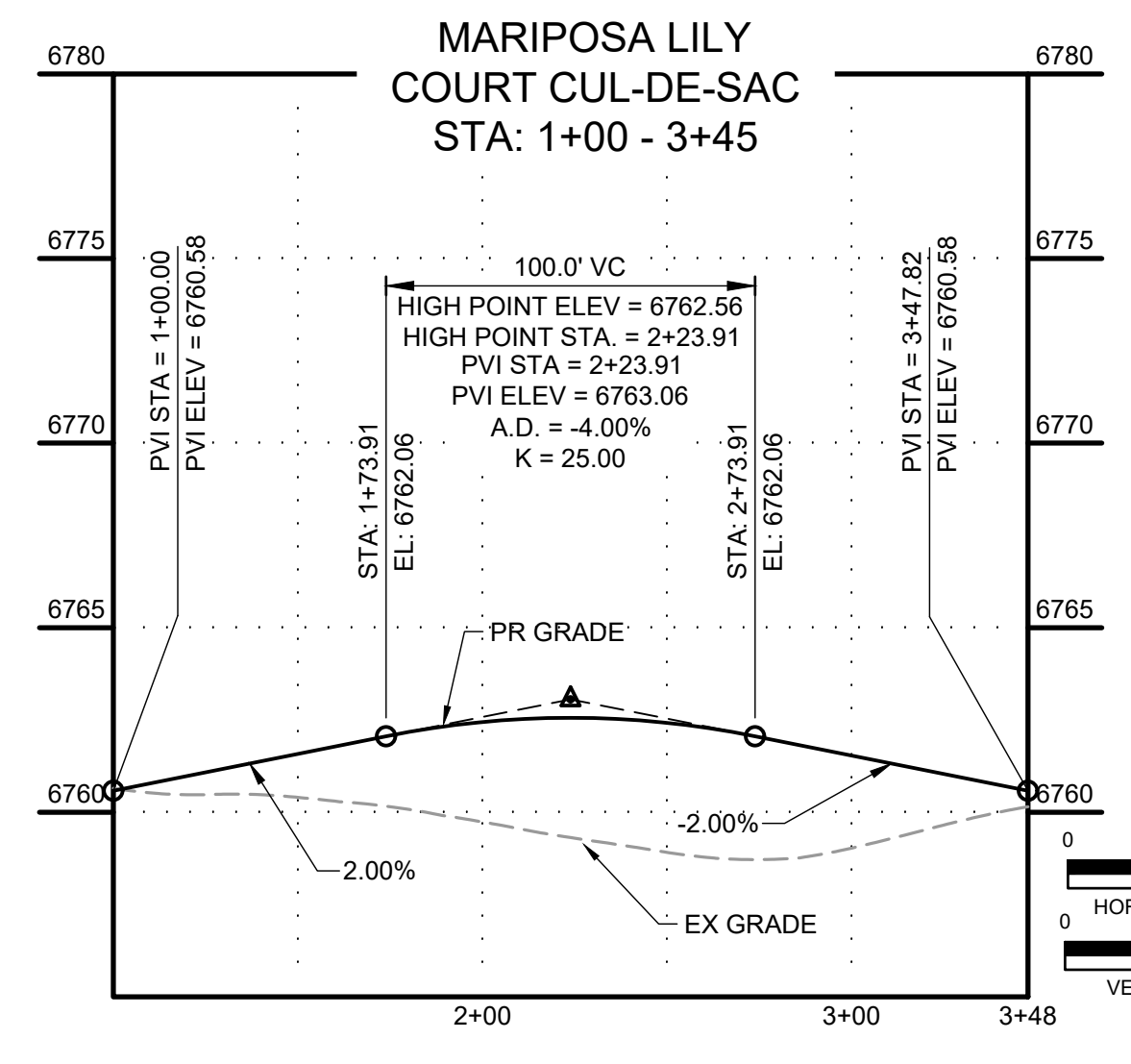
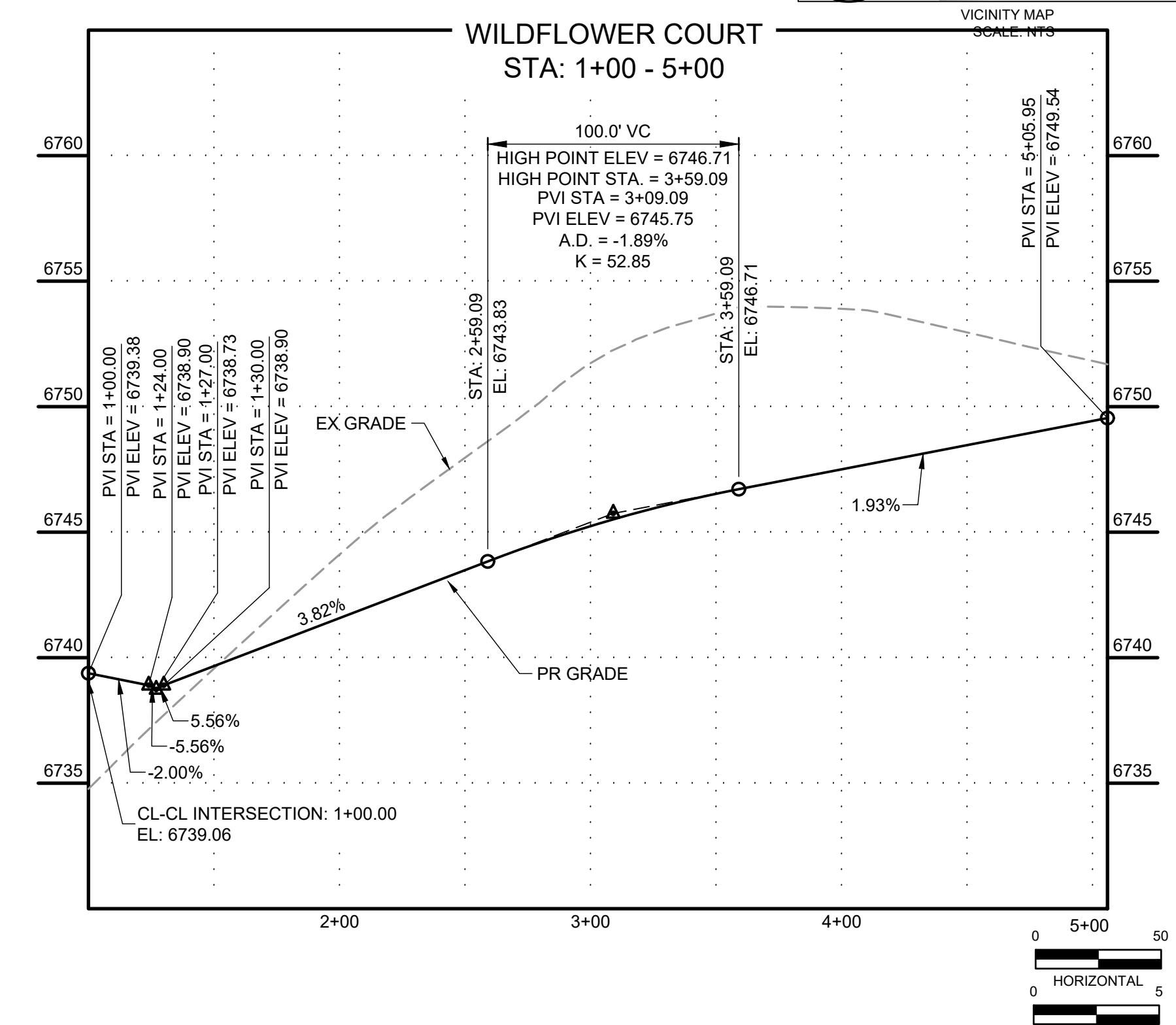
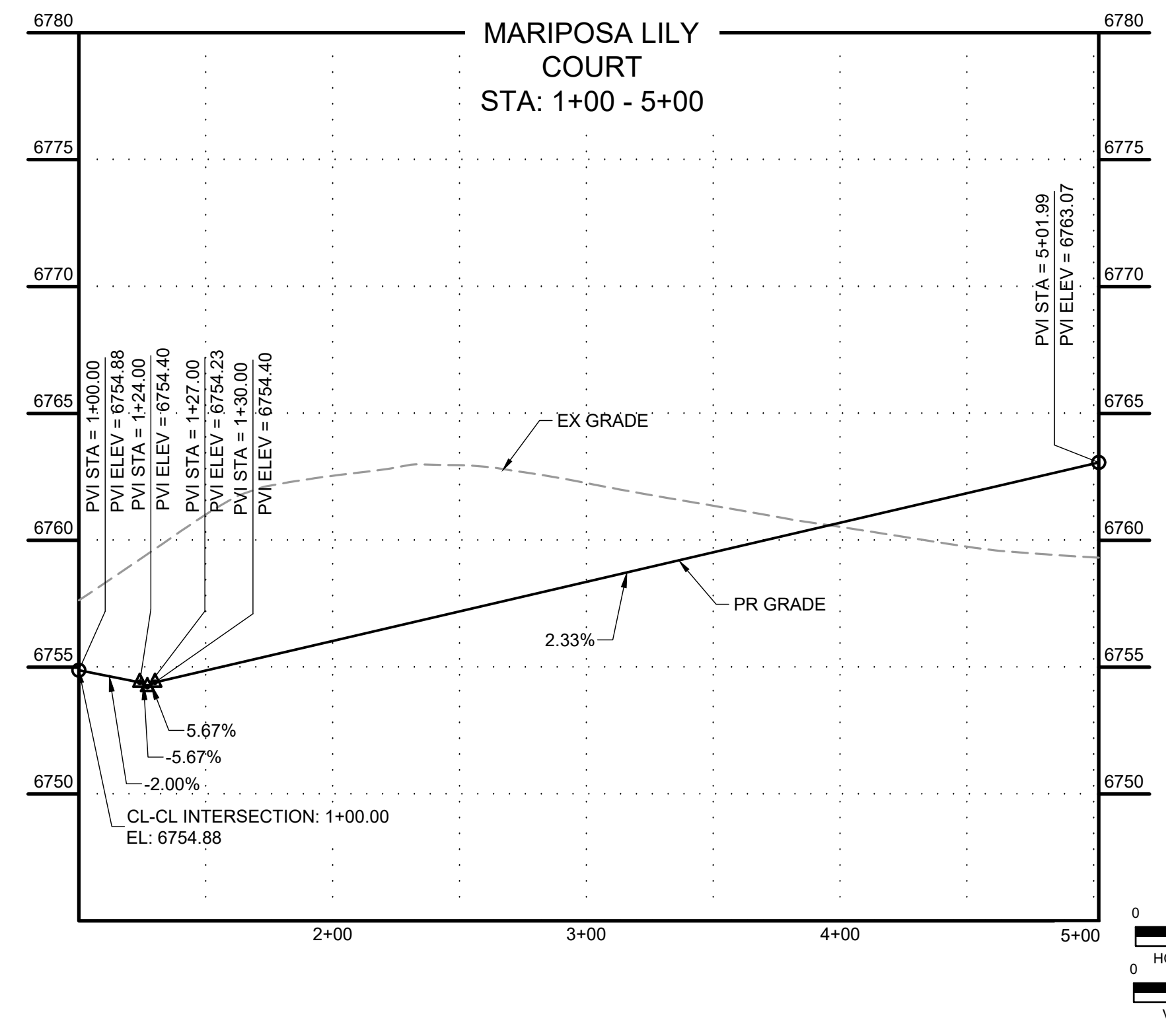
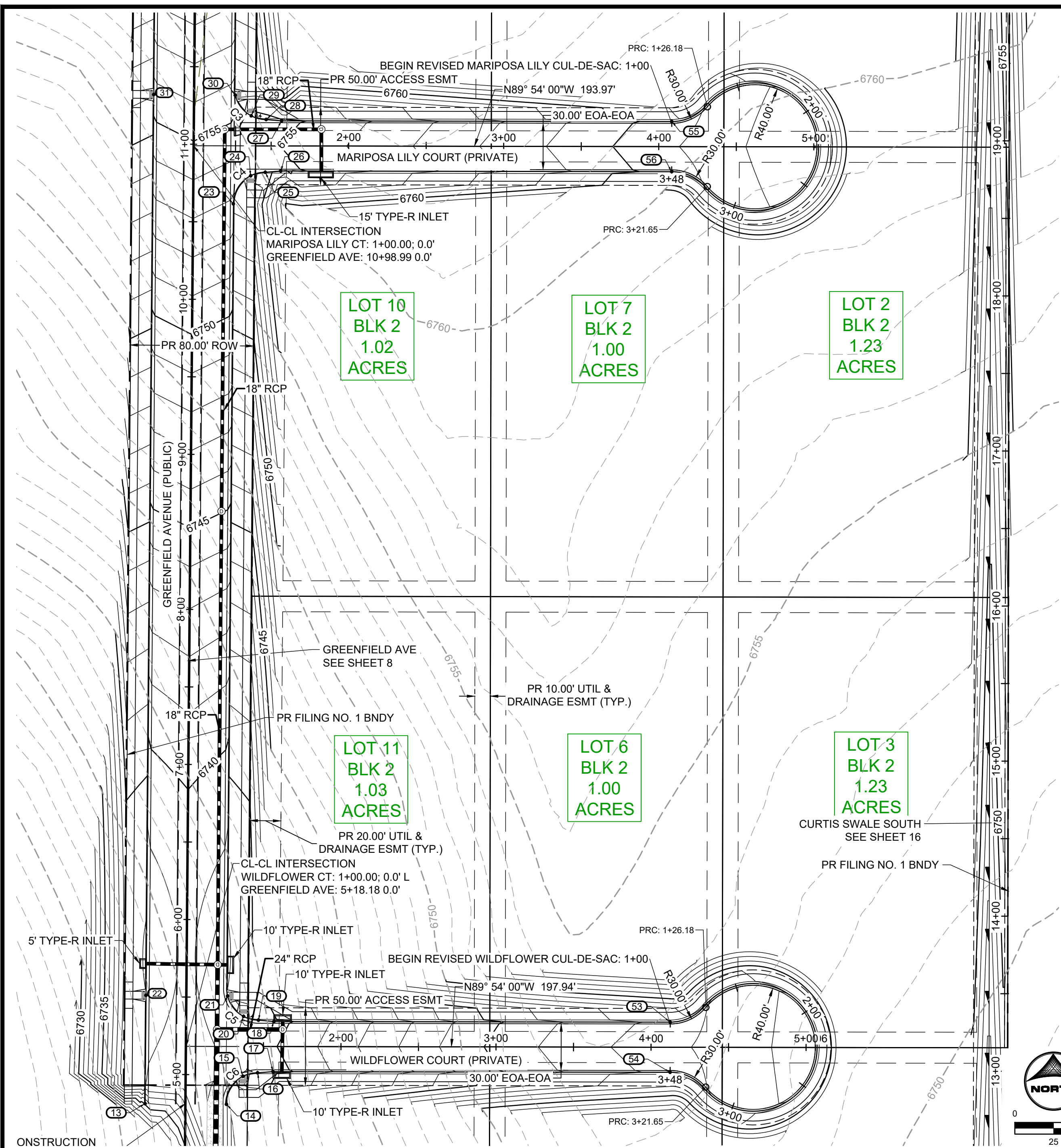
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C4	32.06	20.50	89°36'32"	Flowline
C5	32.34	20.50	90°23'28"	Flowline
C6	32.06	20.50	89°36'32"	Flowline

No.	DESC.	ALIGNMENT	STATION & OFFSET	FL EL.
13	BEGIN TYPE A C&G	GREENFIELD AVE	4+80.99 (-26.00' L)	6735.18
14	BEGIN TYPE A C&G	GREENFIELD AVE	4+80.99 (26.50' R)	6738.18
15	HC RAMP MP	GREENFIELD AVE	4+99.16 (37.00' R)	6738.82
16	END TYPE A C&G	GREENFIELD AVE	5+01.49 (46.36' R)	6739.38
17	END TYPE C C&G	WILDFLOWER CT	1+56.21 (16.17' R)	6739.51
18	END TYPE C C&G	WILDFLOWER CT	1+56.72 (-16.17' L)	6739.53
19	END TYPE A C&G	GREENFIELD AVE	5+35.49 (46.64' R)	6739.40
20	HC RAMP MP	GREENFIELD AVE	5+37.83 (37.00' R)	6739.26
21	HC RAMP MP	GREENFIELD AVE	5+50.87 (26.65' R)	6739.02
22	HC RAMP MP	GREENFIELD AVE	5+50.87 (-26.00' L)	6738.52
23	PCR	GREENFIELD AVE	10+61.80 (25.92' R)	6752.75
24	HC RAMP MP	GREENFIELD AVE	10+79.97 (37.00' R)	6754.12
25	END TYPE A C&G	GREENFIELD AVE	10+82.31 (46.36' R)	6754.41
26	END TYPE C C&G	MARIPOSA LILY CT	1+56.21 (16.17' R)	6754.99
27	END TYPE C C&G	MARIPOSA LILY CT	1+56.72 (-16.17' L)	6754.63
28	END TYPE A C&G	GREENFIELD AVE	11+16.31 (46.64' R)	6754.68
29	HC RAMP MP	GREENFIELD AVE	11+18.64 (37.00' R)	6754.77
30	HC RAMP MP	GREENFIELD AVE	11+31.81 (26.62' R)	6756.05

No.	DESC.	ALIGNMENT	STATION & OFFSET	FL EL.
31	HC RAMP MP	GREENFIELD AVE	11+31.81 (-26.00' L)	6755.55
53	PCR	WILDFLOWER CT	4+12.33 (-16.17' L)	6747.35
54	PCR	WILDFLOWER CT	4+12.33 (16.17' R)	6747.35
55	PCR	WILDFLOWER CT	4+12.33 (-596.97' L)	6760.49
56	PCR	WILDFLOWER CT	4+12.33 (-564.63' L)	6760.49

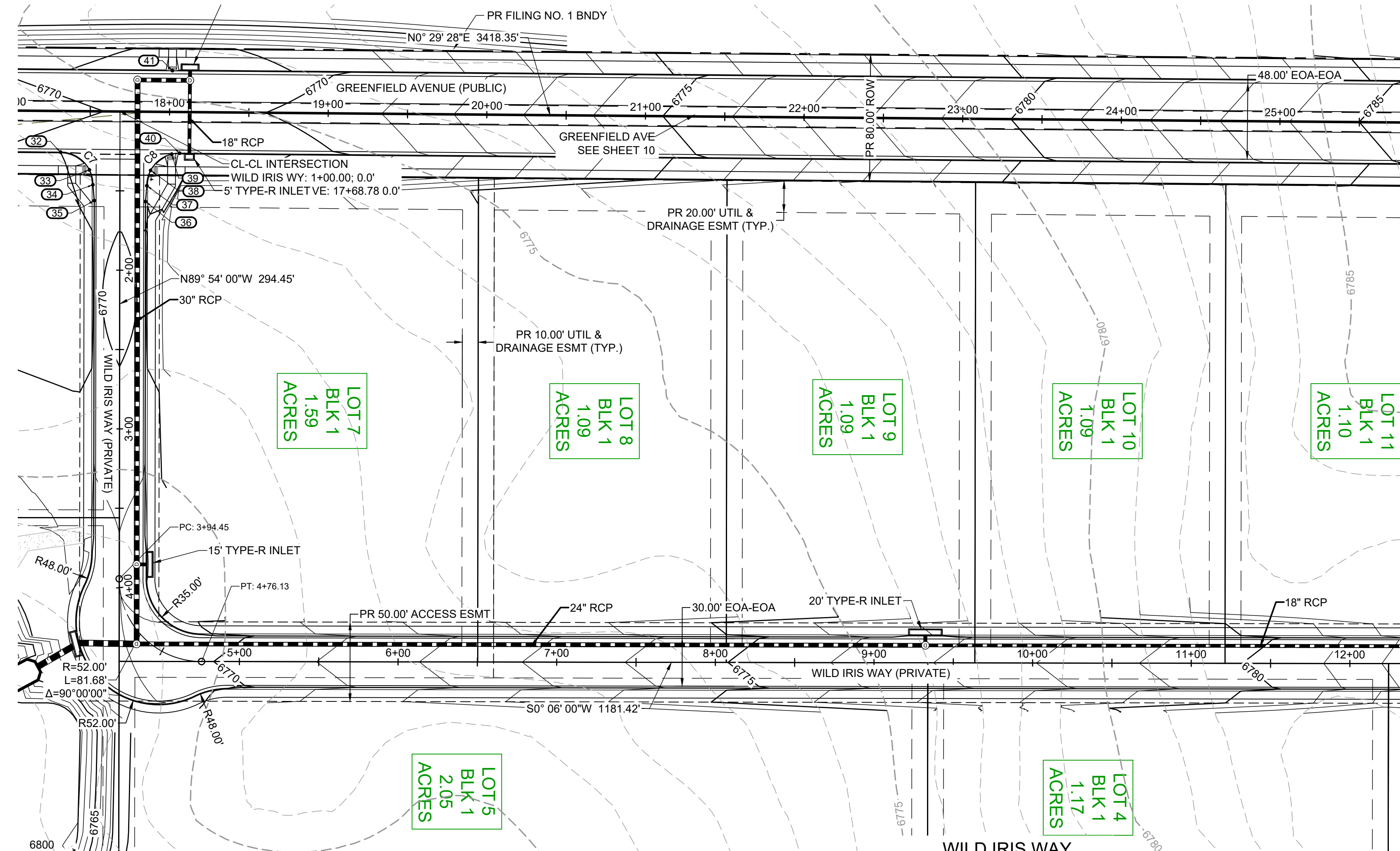
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 COLORADO SPRINGS, CO 80920  
 PHONE: 719.394.2440  
 FAX: 713.965.0044

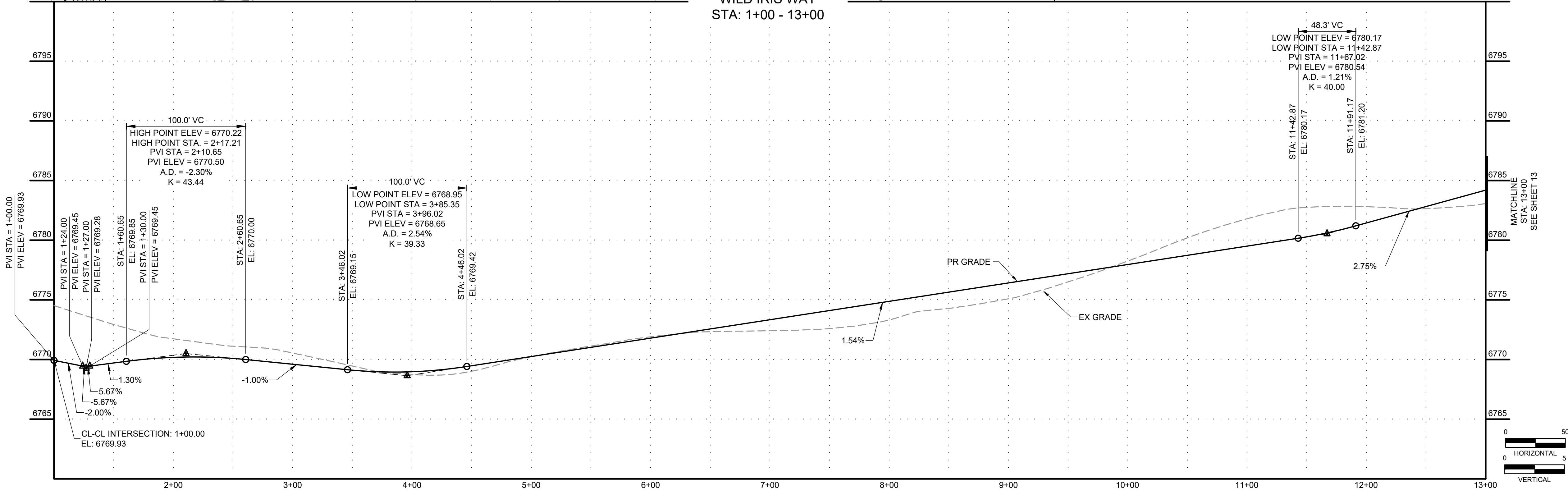
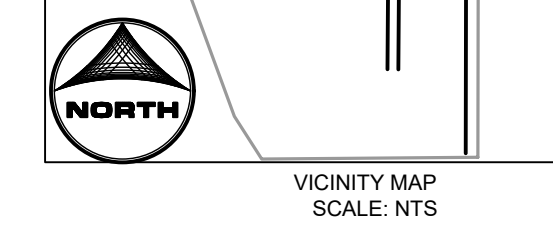
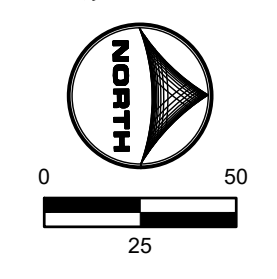
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 EL PASO COUNTY, CO

CONSTRUCTION DOCUMENTS  
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Curve Table				
Curve #	Length	Radius	Delta	Centerline/Flowline
C7	32.06	20.50	89°36'32"	Flowline
C8	32.34	20.50	90°23'28"	Flowline

POINT TABLE				
No.	DESC.	ALIGNMENT	STATION & OFFSET	FL EL.
32	PCR	GREENFIELD AVE	17+31.60 (26.00' R)	6769.55
33	HC RAMP MP	GREENFIELD AVE	17+49.77 (37.00' R)	6769.61
34	END TYPE A C&G	GREENFIELD AVE	17+52.10 (46.36' R)	6769.63
35	END TYPE C C&G	GREENFIELD AVE	17+53.00 (56.32' R)	6769.66
36	END TYPE C C&G	GREENFIELD AVE	17+85.34 (56.61' R)	6769.48
37	BEGIN TYPE A C&G	GREENFIELD AVE	17+86.10 (46.64' R)	6769.40
38	HC RAMP MP	WILDFLOWER CT	1+45.67 (-1269.98' L)	6769.33
39	HC RAMP MP	WILDFLOWER CT	1+35.38 (-1283.22' L)	6769.19
40	PCR	WILDFLOWER CT	1+34.80 (-1288.22' L)	6769.15
41	HC RAMP MP	GREENFIELD AVE	18+01.60 (-26.00' L)	6769.16



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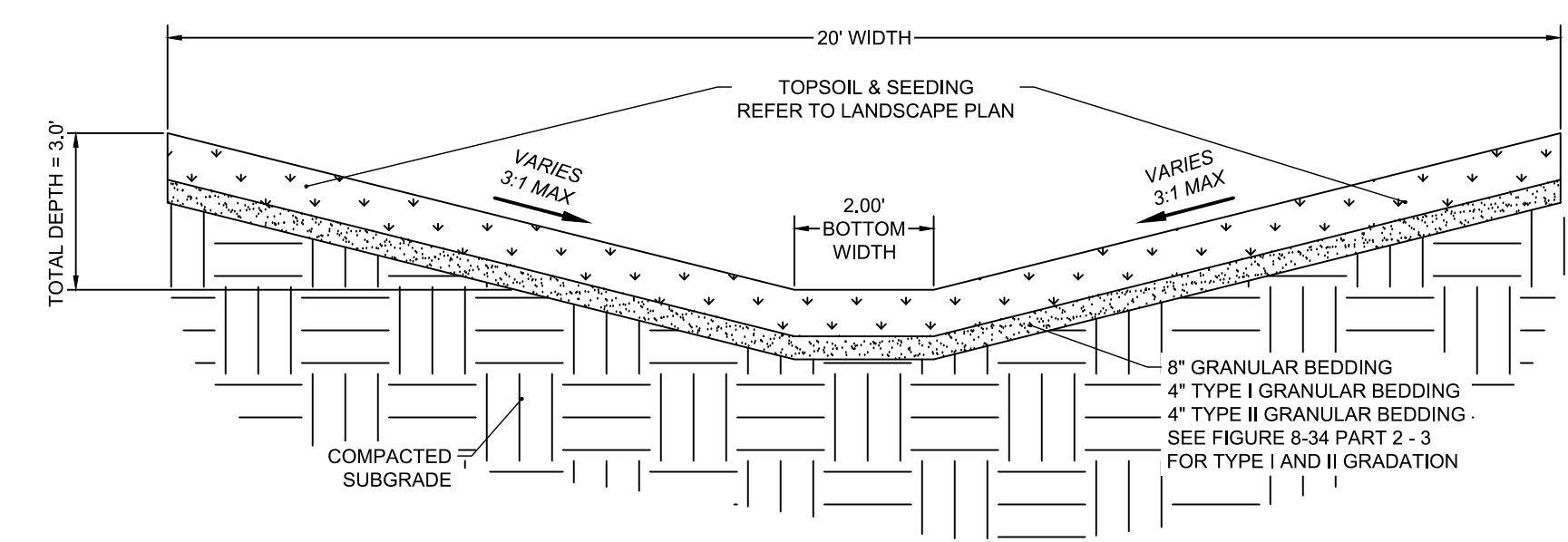
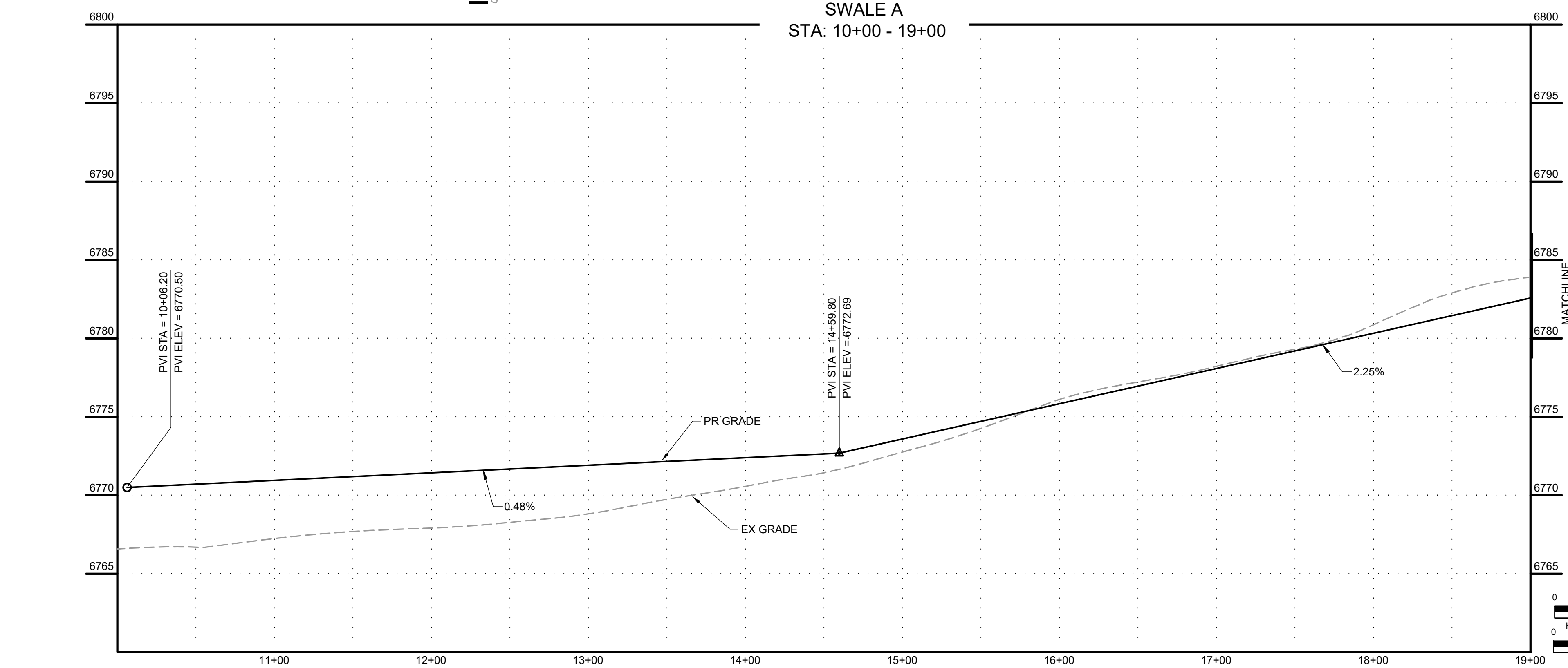
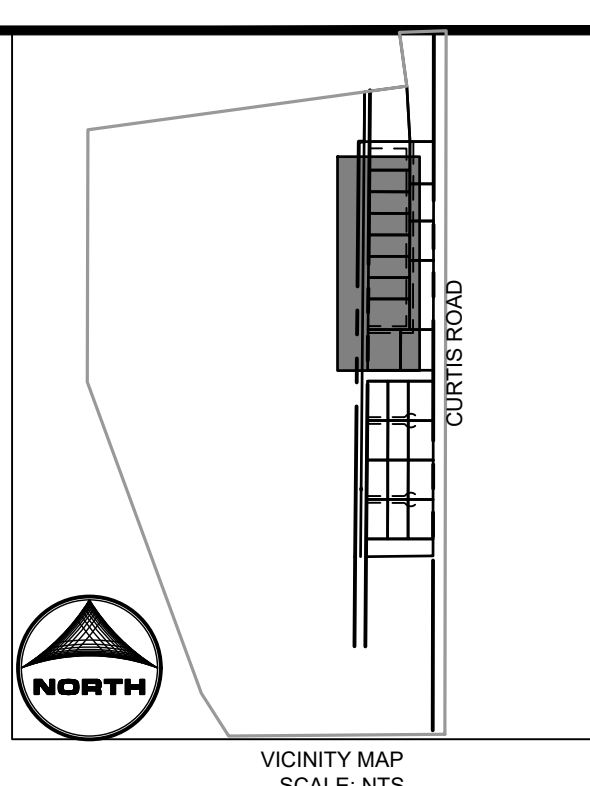
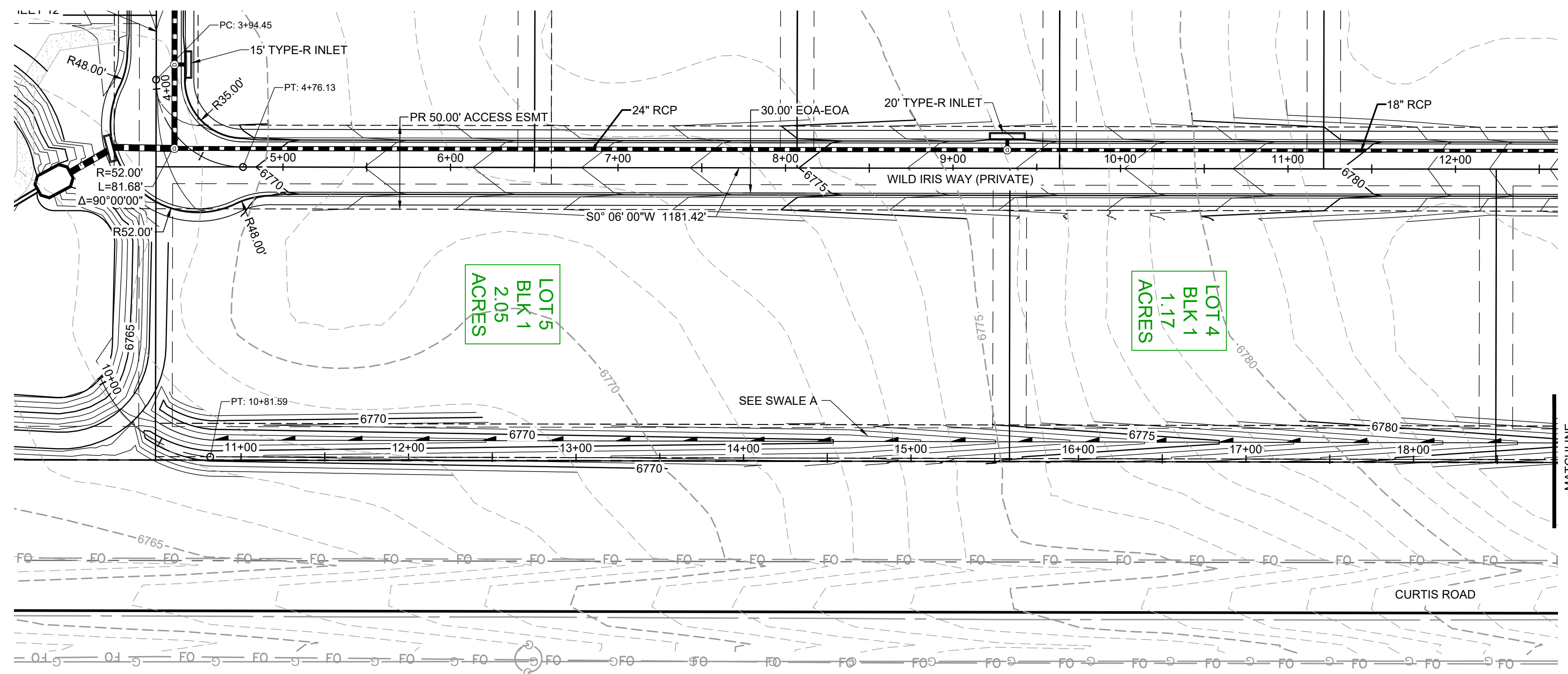
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SWALE - TYPICAL SECTION  
SCALE: 1" = 2'

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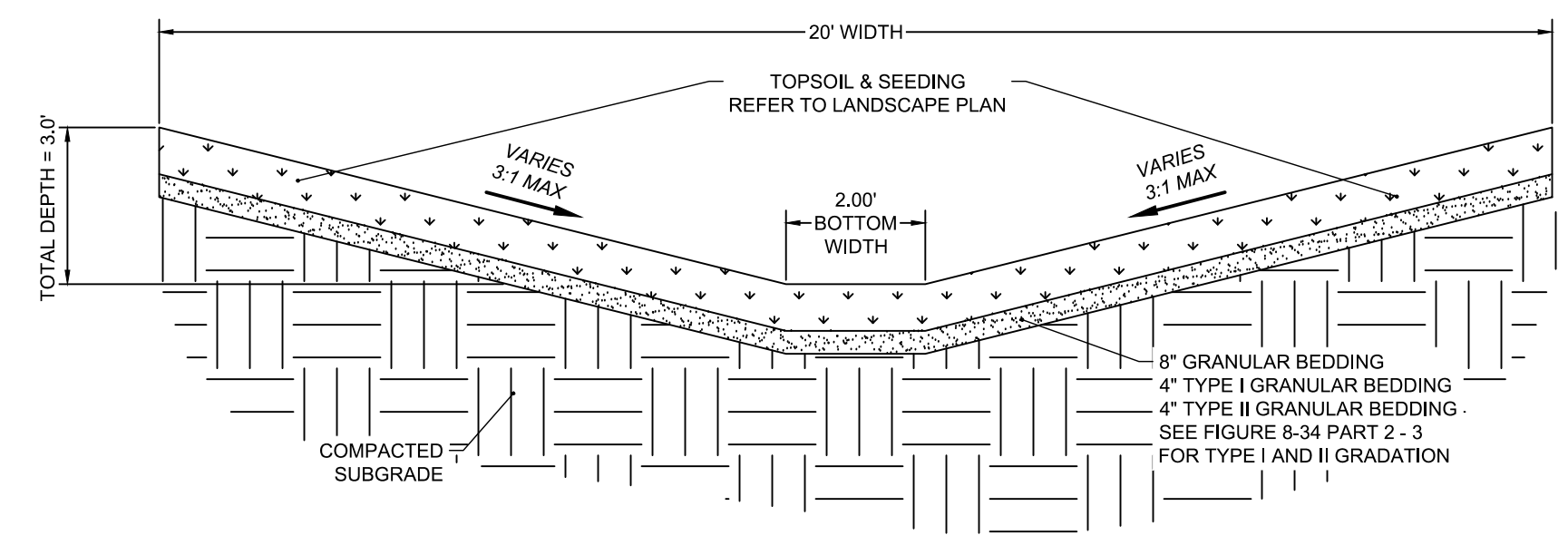
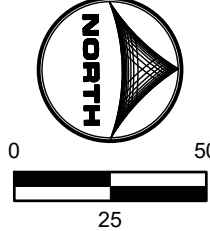
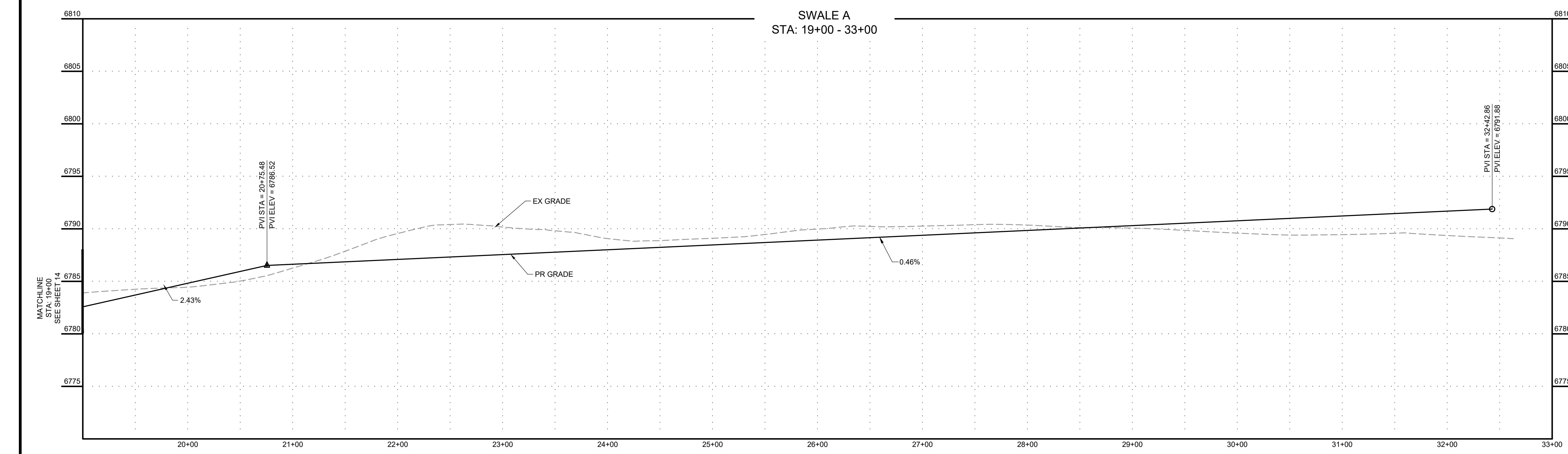
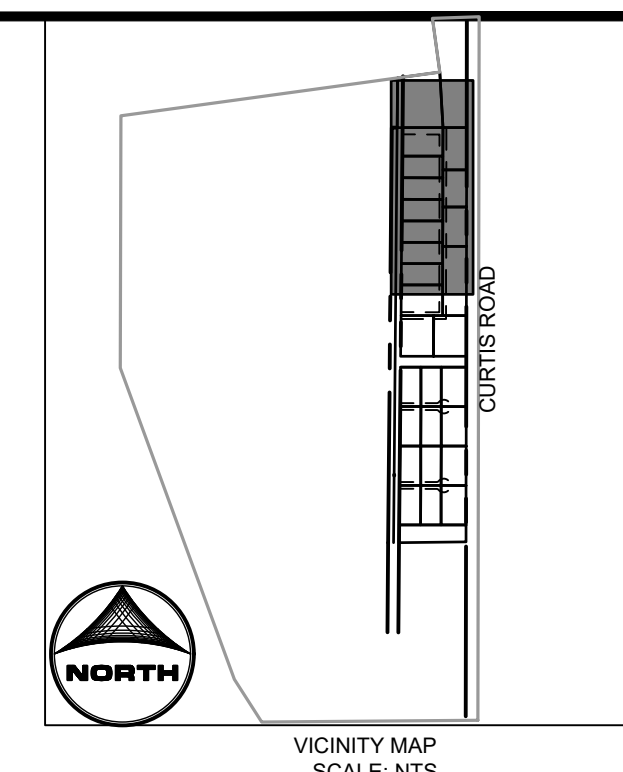
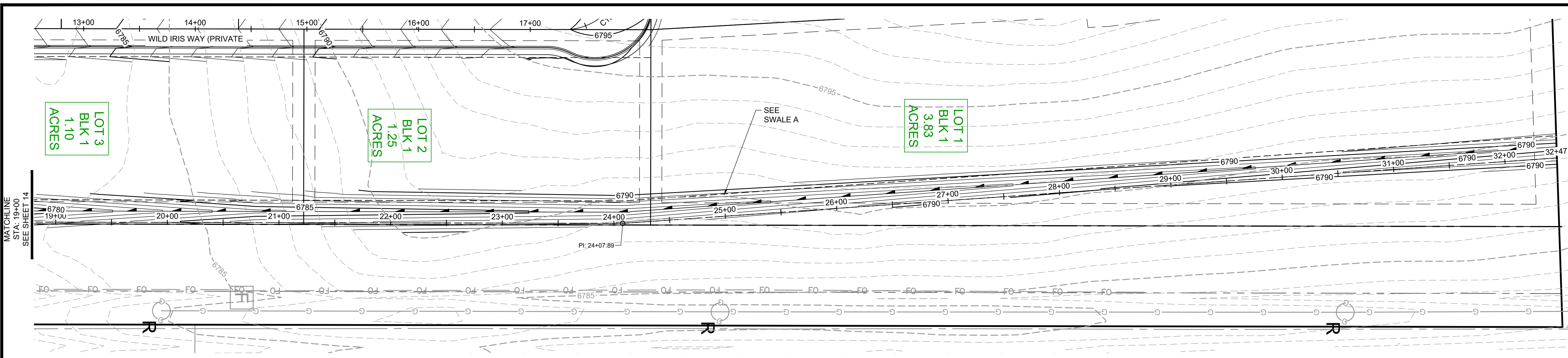
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SWALE - TYPICAL SECTION  
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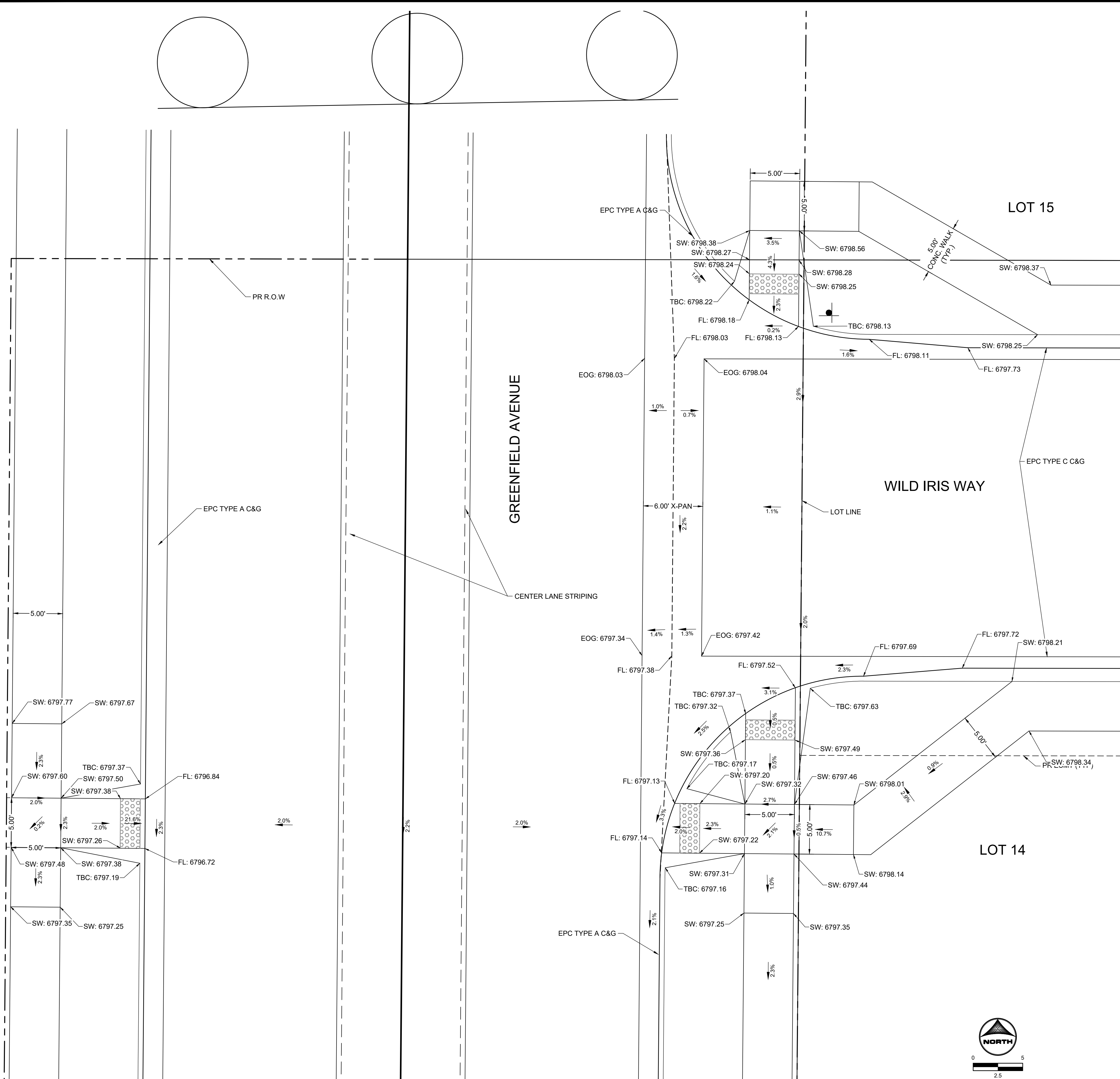
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 SWALE PLAN & PROFILE

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HR GREEN Xrefs: x:\row-2774; x:\dgn-2774; x:\dwg-2774; x:\p1-2774; Key\_Map\_Channel\_section



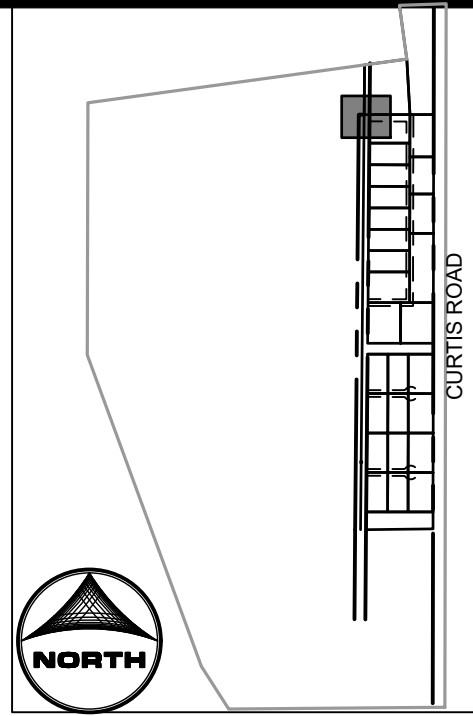




IN PROGRESS



VICINITY MAP  
SCALE: NTS



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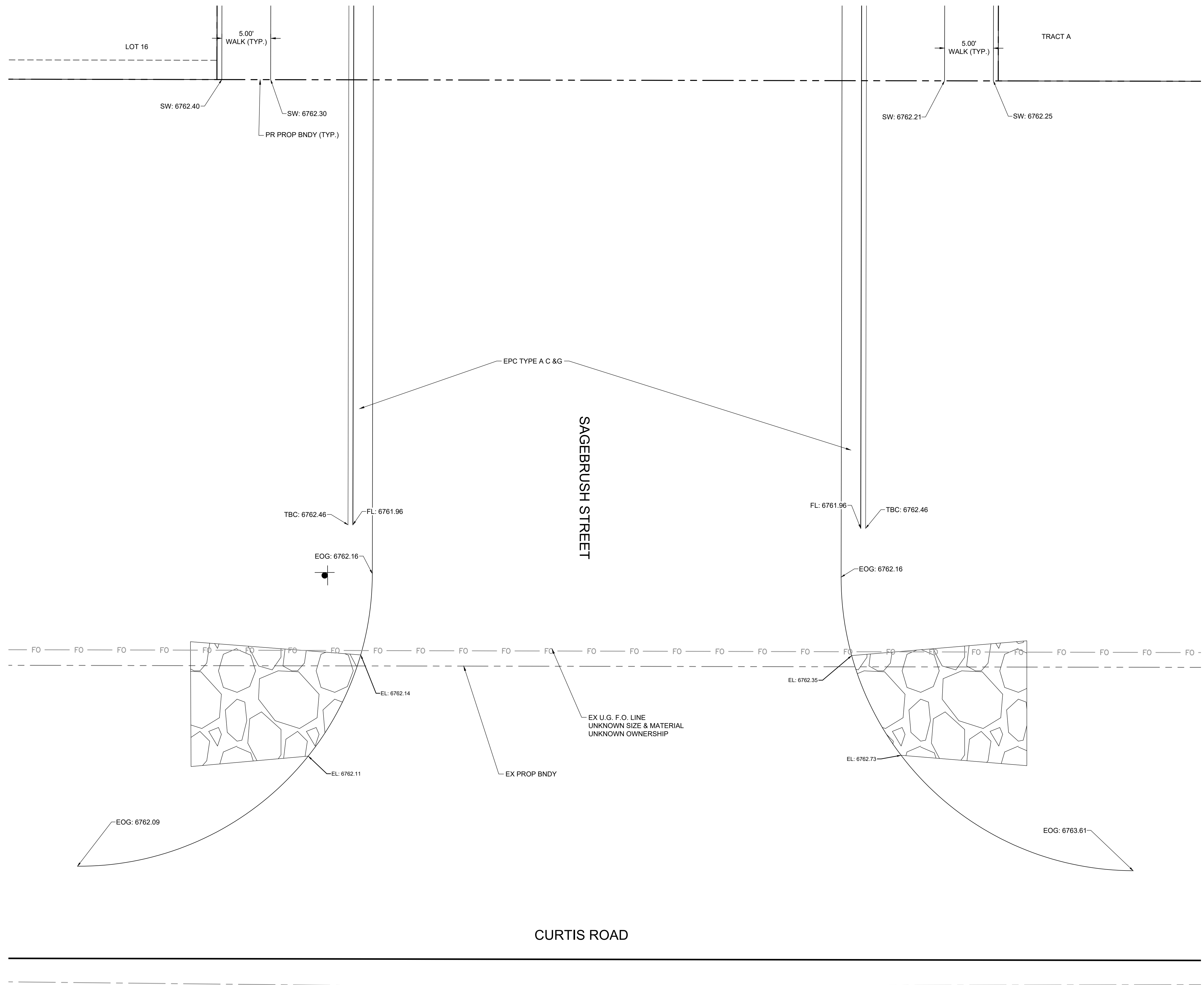
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CONSTRUCTION DOCUMENTS  
 INTERSECTION GRADING

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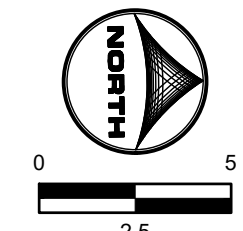
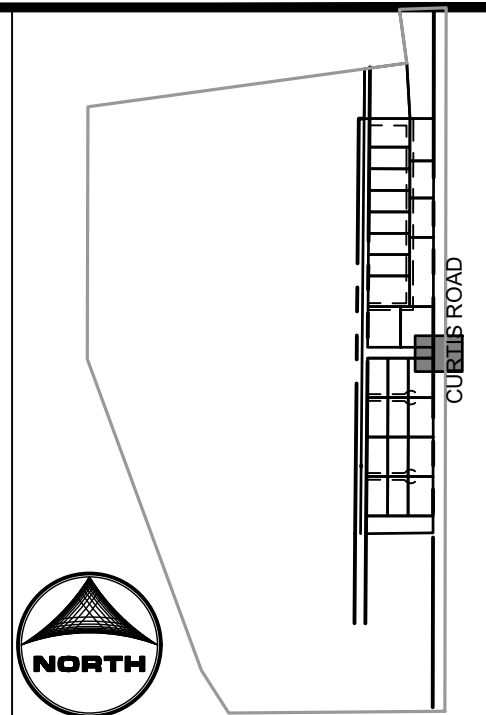




IN PROGRESS



VICINITY MAP SCALE: NTS



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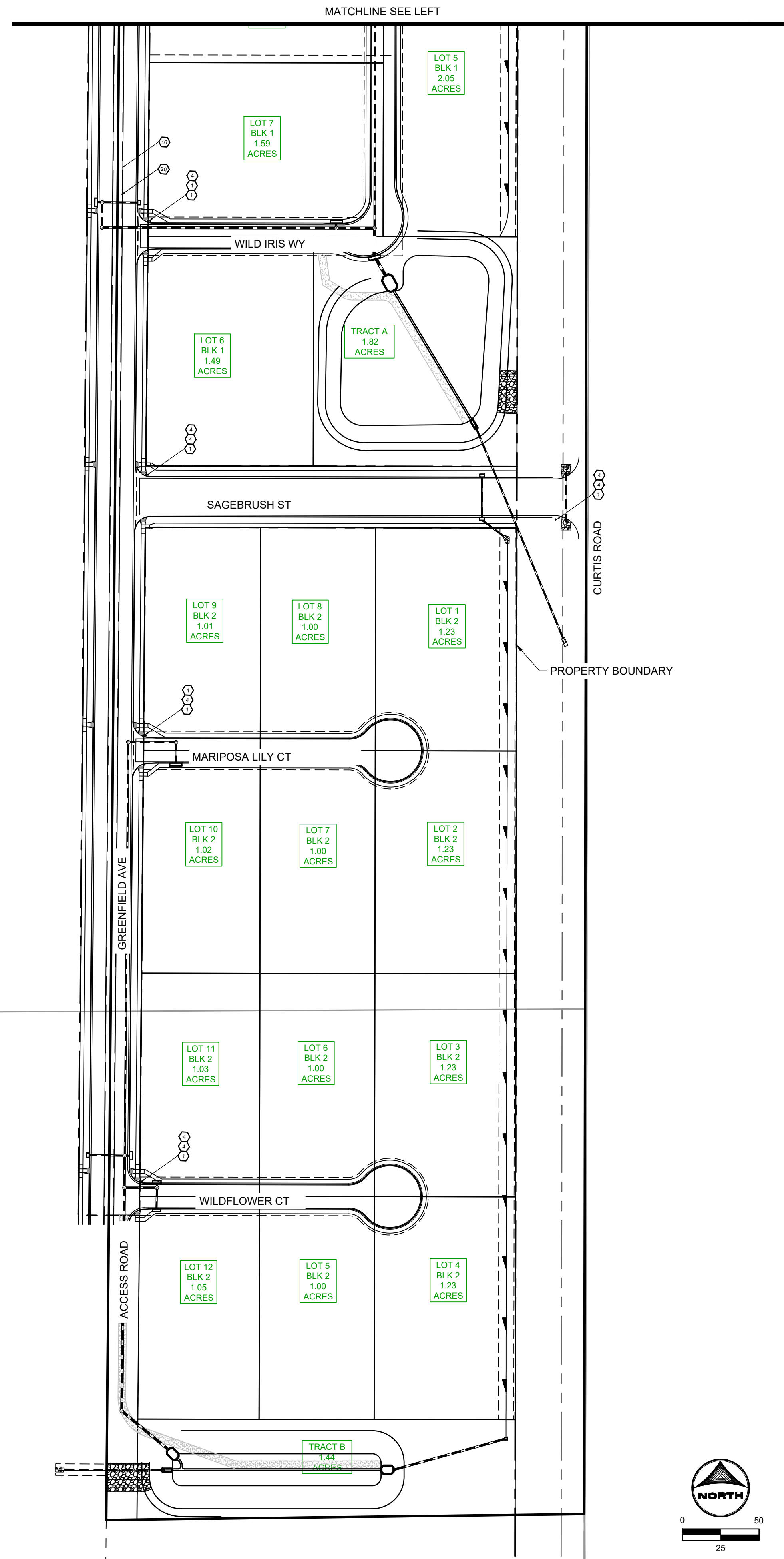
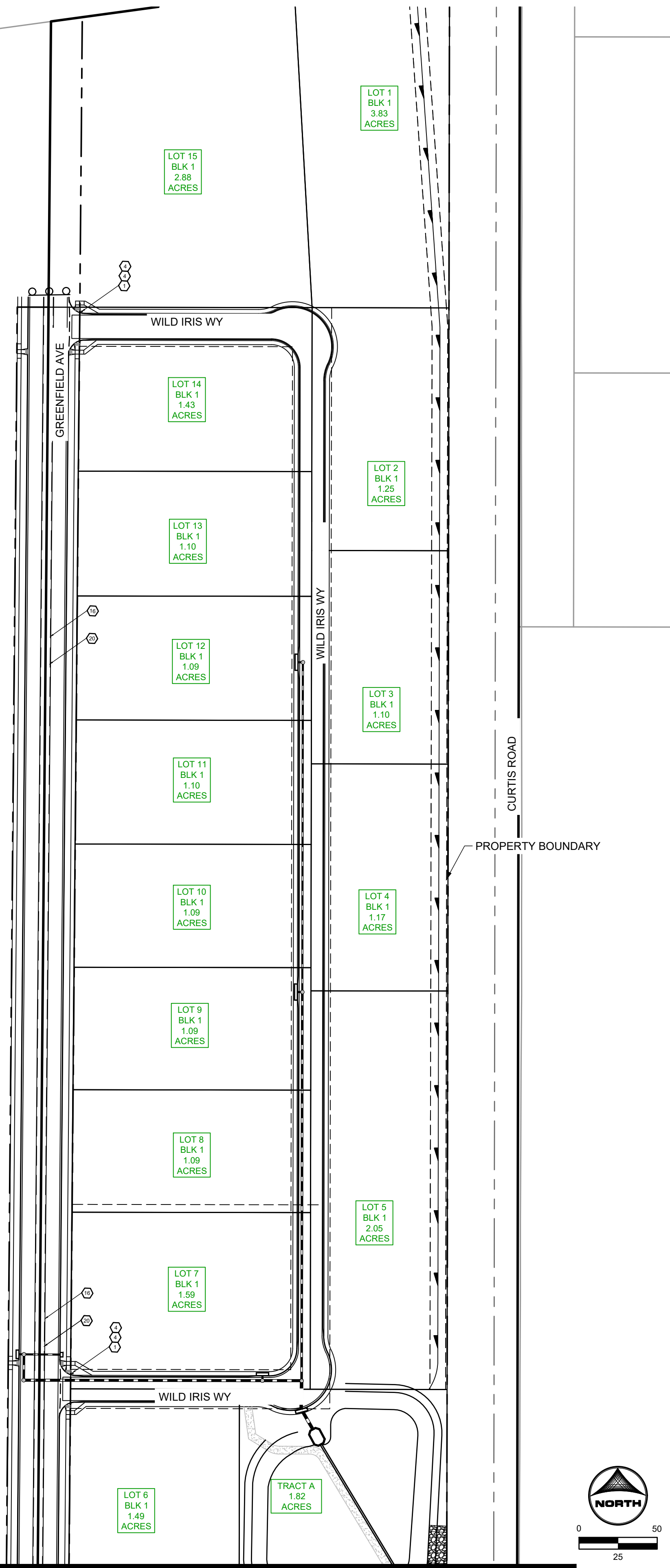
CONSTRUCTION DOCUMENTS  
 INTERSECTION GRADING

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**SIGNAGE LEGEND:**

**SIGNAGE LEGEND:**

- 1 STOP
- 2 R-1 SINGLE LANE 30"x30"  
MULTI LANE 36"x36"
- 3A NO PARKING FIRE LANE
- 3B NO PARKING FIRE LANE
- 4 ROAD NAME GREEN
- 5 ROAD NAME WITH OUTLET PATCH GREEN
- 6 NO PARKING BIKE LANE R7-9 12"x18"
- 7 SPEED LIMIT 1.7 R2-1 24"x30"
- 8 BEGIN RIGHT TURN LANE YIELD TO BIKES R4-4 30"x30"
- 9 LEFT LANE MUST TURN LEFT R3-7L 30"x30"
- 10 RIGHT LANE MUST TURN RIGHT R3-7r 30"x30"
- 11 STRAIGHT ARROW PAVEMENT MARKING (SOLID WHITE, 40" WIDE, 6')
- 12 TURN ARROW PAVEMENT MARKINGS (SOLID WHITE, 40" WIDE, 6')
- 13 SOLID WHITE STRIPE, 8" WIDE
- 14 SOLID YELLOW STRIPE, 4" WIDE
- 15 STOP LINE (SOLID WHITE, 2x8')
- 16 SOLID DOUBLE YELLOW CENTERLINE, 4" WIDE
- 17 STRIPED ISLAND SOLID DOUBLE YELLOW SURROUND
- 18 BROKEN YELLOW LINES, 4" WIDE, 3' SEGMENTS WITH 12' GAPS
- 19 BIKE LANE SYMBOL (SOLID WHITE, 40" WIDE, 6')
- 20 TYPE III BARRICADE (TEMPORARY)

VICINITY MAP

**CONSTRUCTION NOTES:**

- WHERE CONSTRUCTION DETAILS AND SPECIFICATIONS ARE NOTED ON THESE PLANS USE EL PASO COUNTY STANDARD SPECIFICATIONS FOR DESIGN AND CONSTRUCTION.
- ALL SIGNING AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION.
- PAVEMENT MARKING IS THERMOPLASTIC WITH COLOR DESIGNATED IN KEY NOTES.
- ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN ACCORDANCE WITH "THE STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" ADOPTED BY THE FEDERAL HIGHWAY ADMINISTRATION.
- STREET NAME SIGNS ARE 7" BLANK AND 4" FONT IF SPEED LIMIT IS 25 MPH, AND ARE 9" BLANK AND 6" FONT IF SPEED LIMIT IS 30 MPH AND ABOVE

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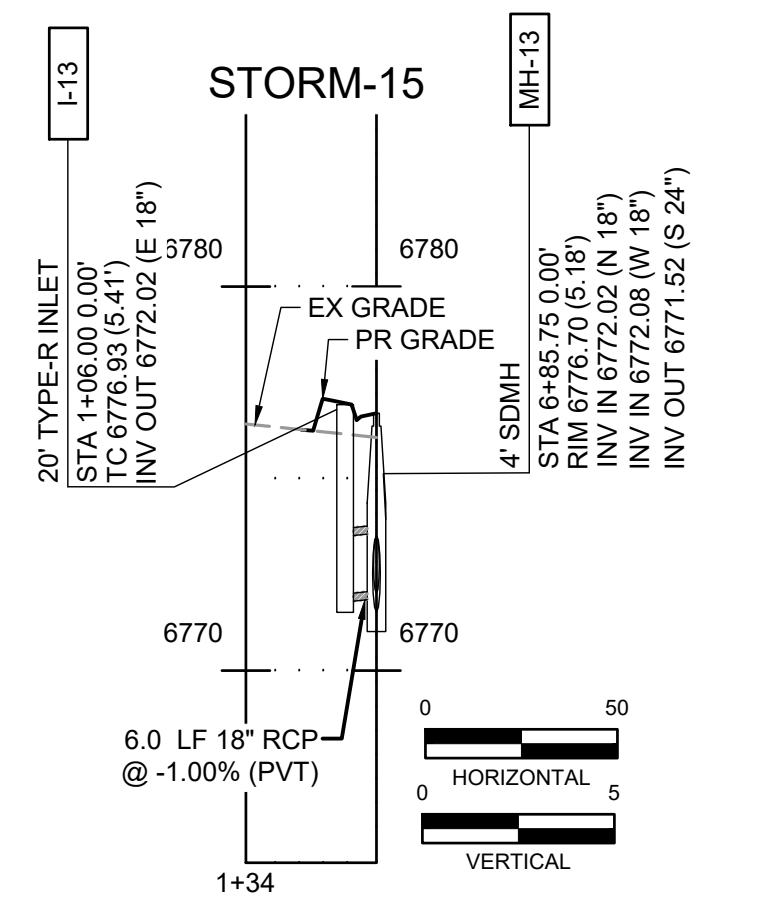
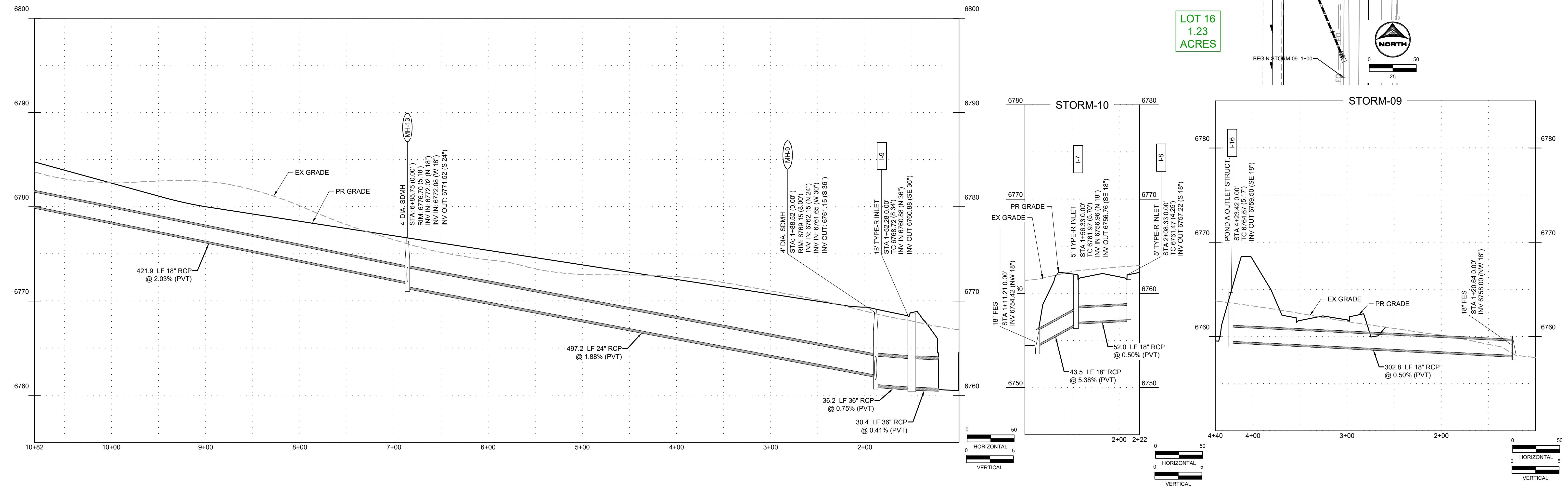
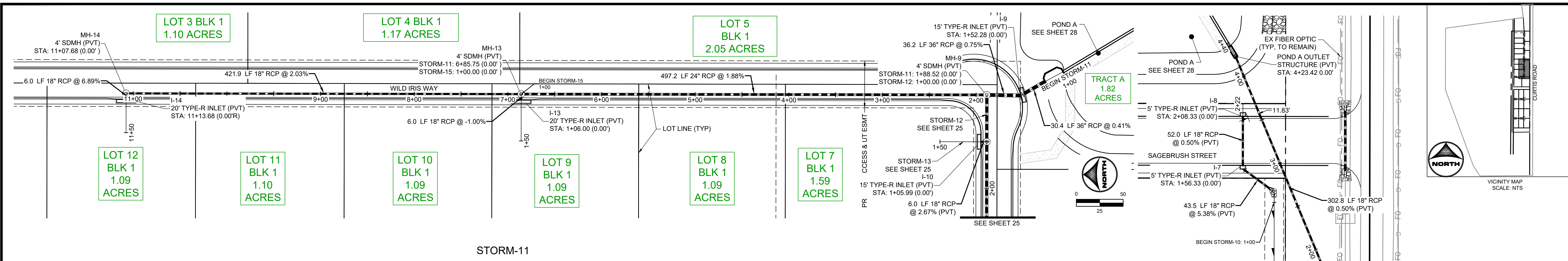
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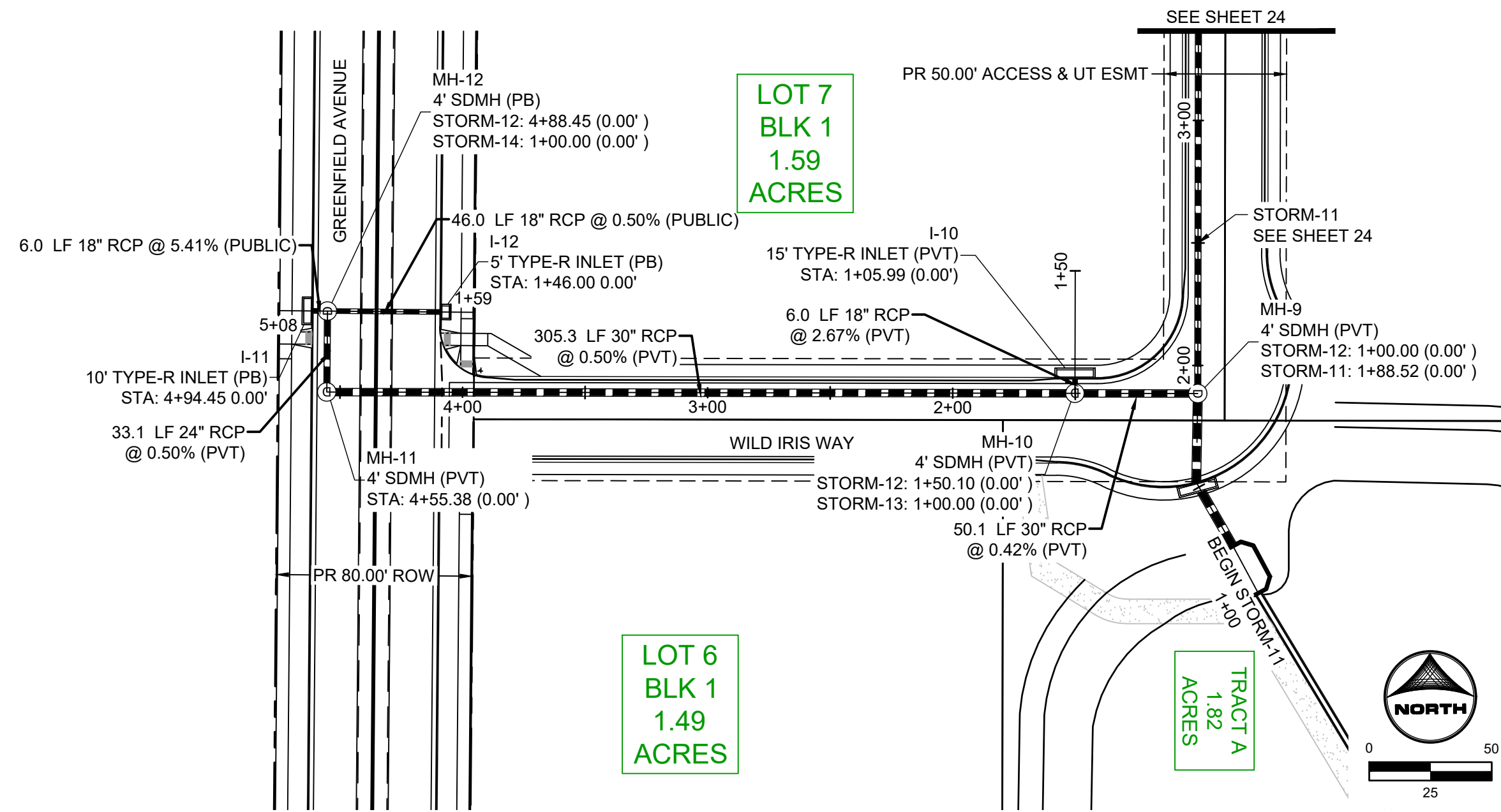
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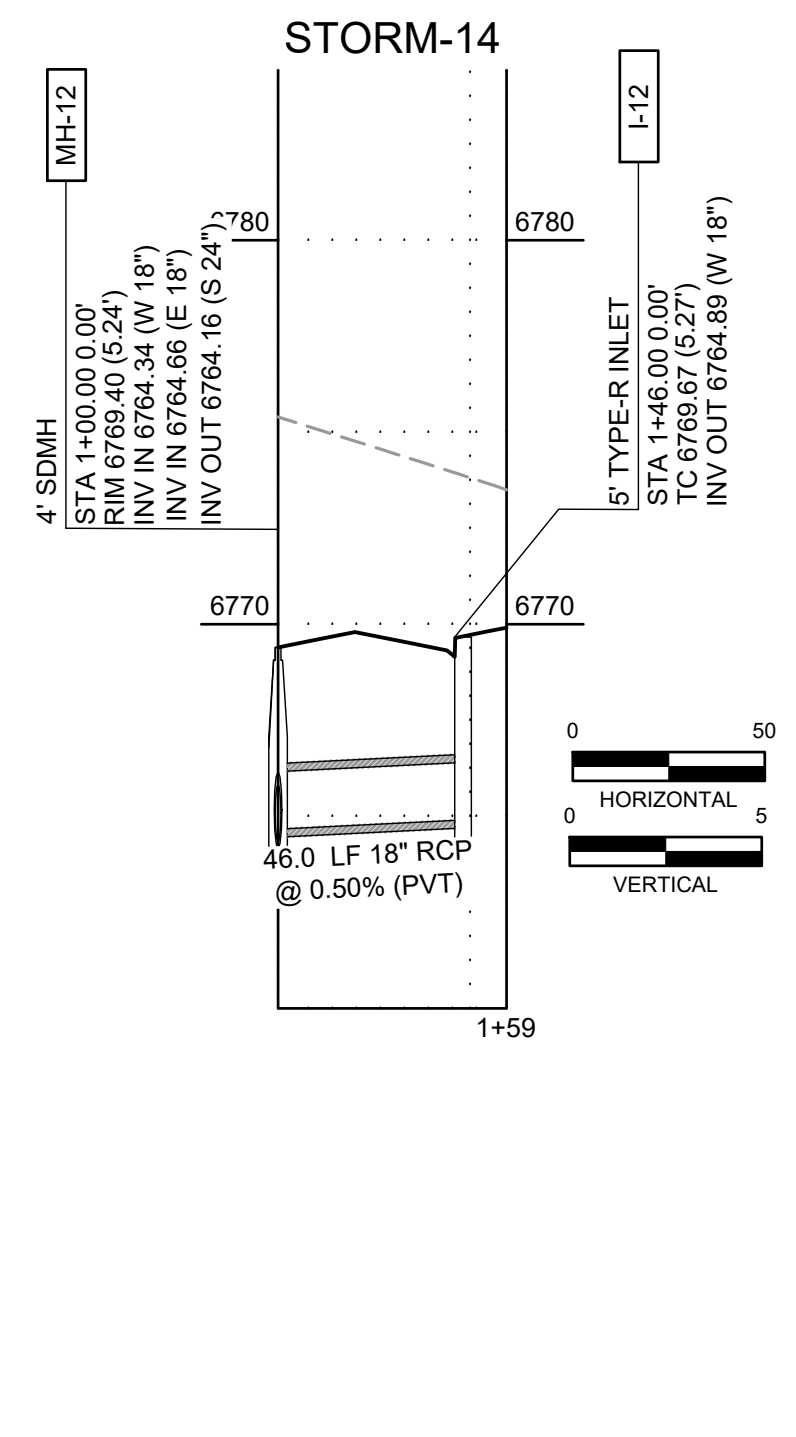
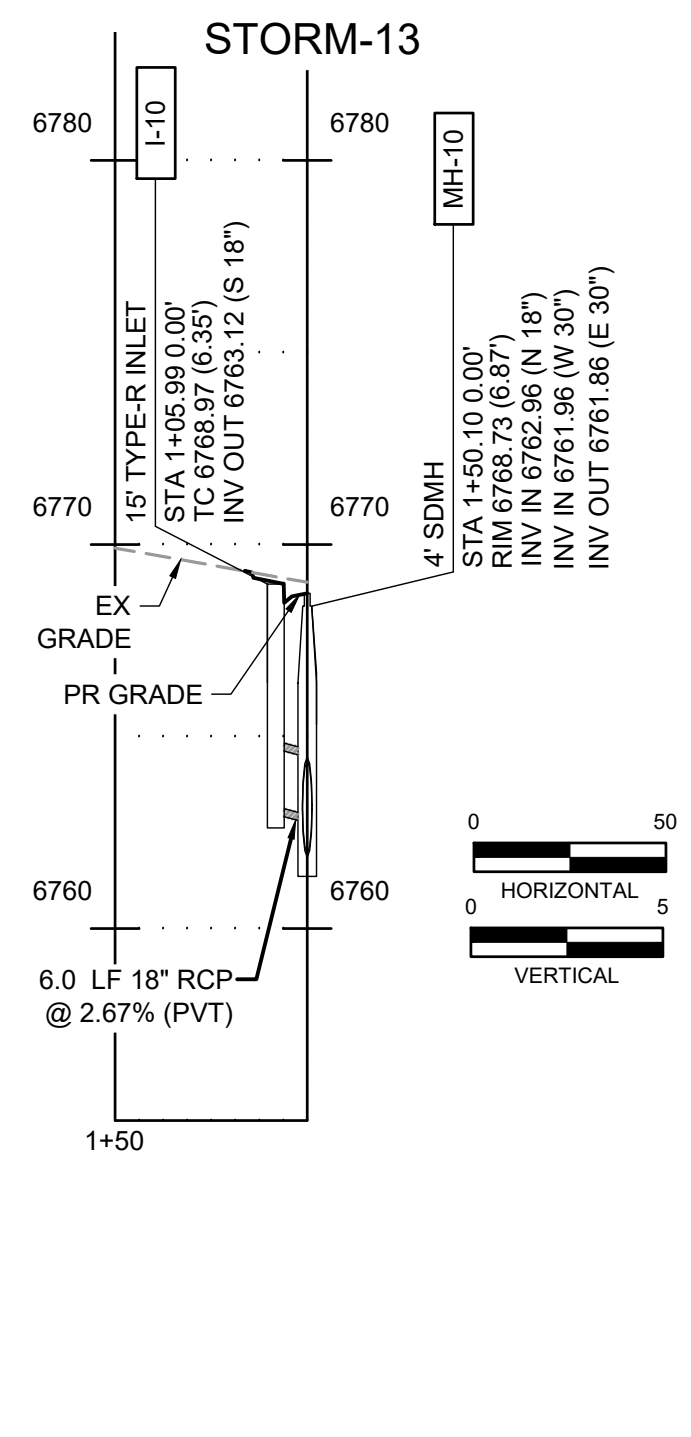
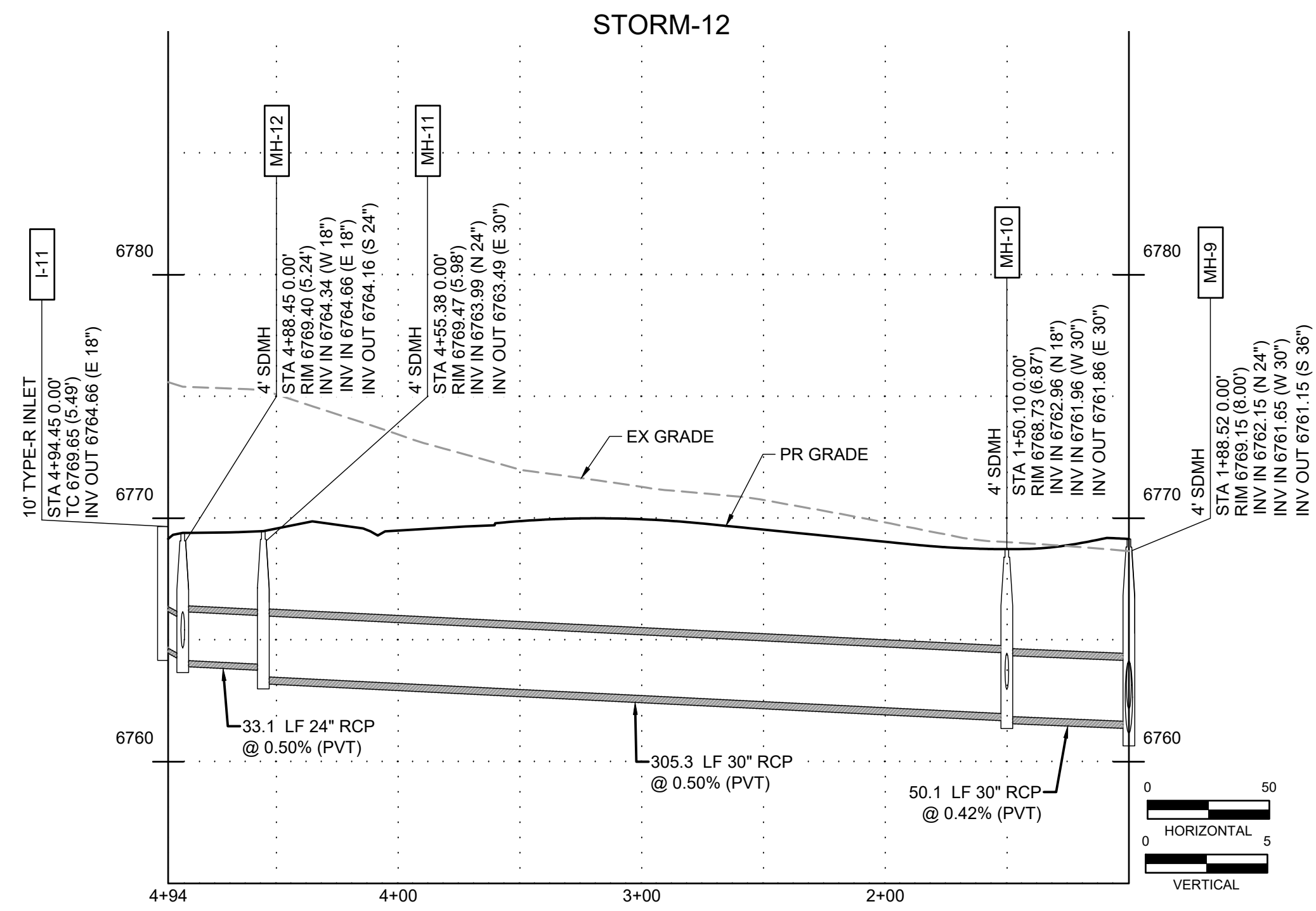
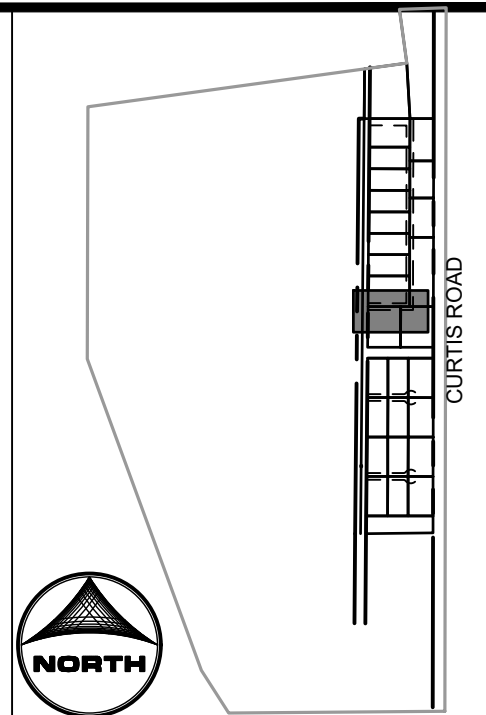
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 24






VICINITY MAP  
SCALE: NTS



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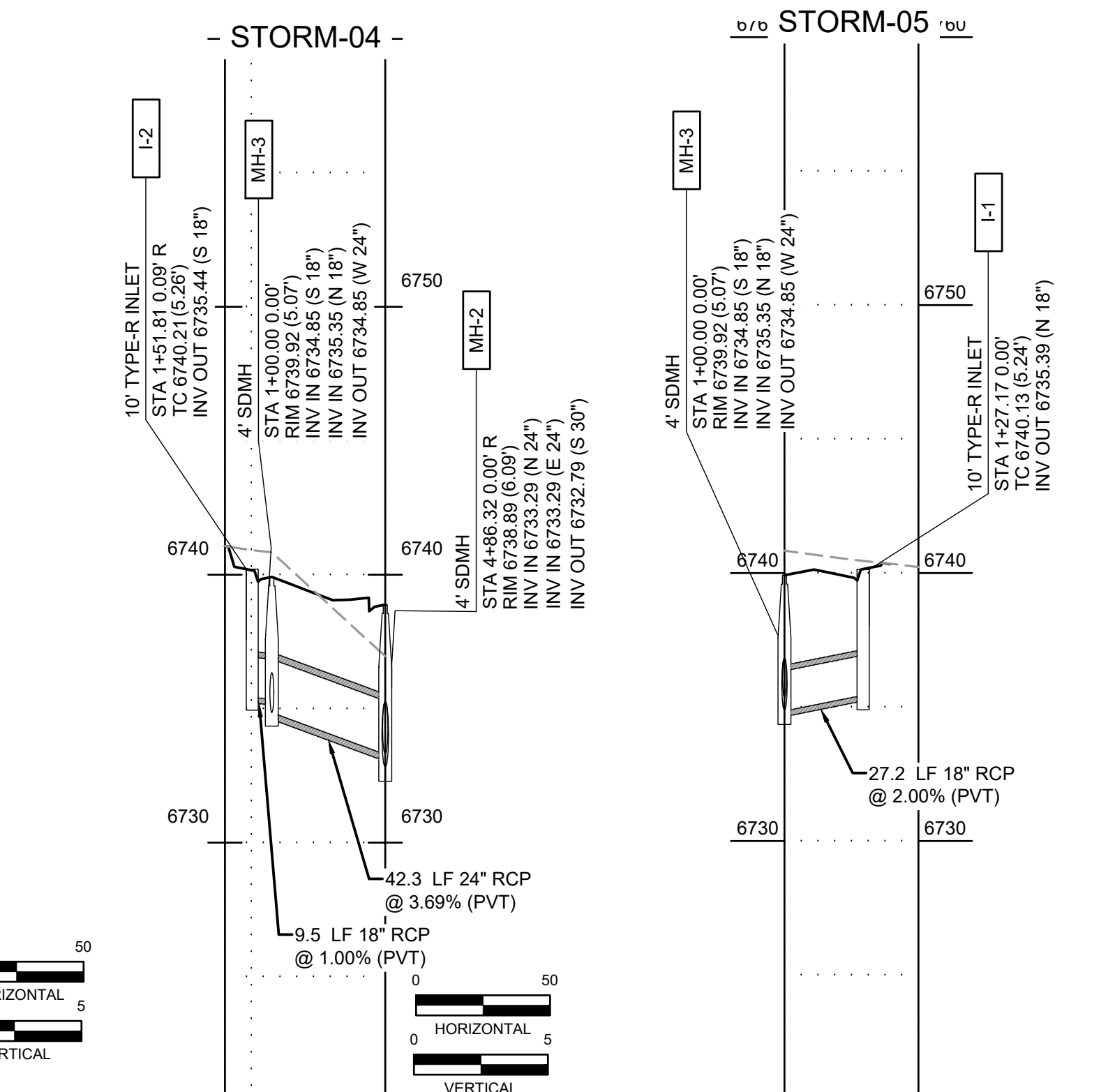
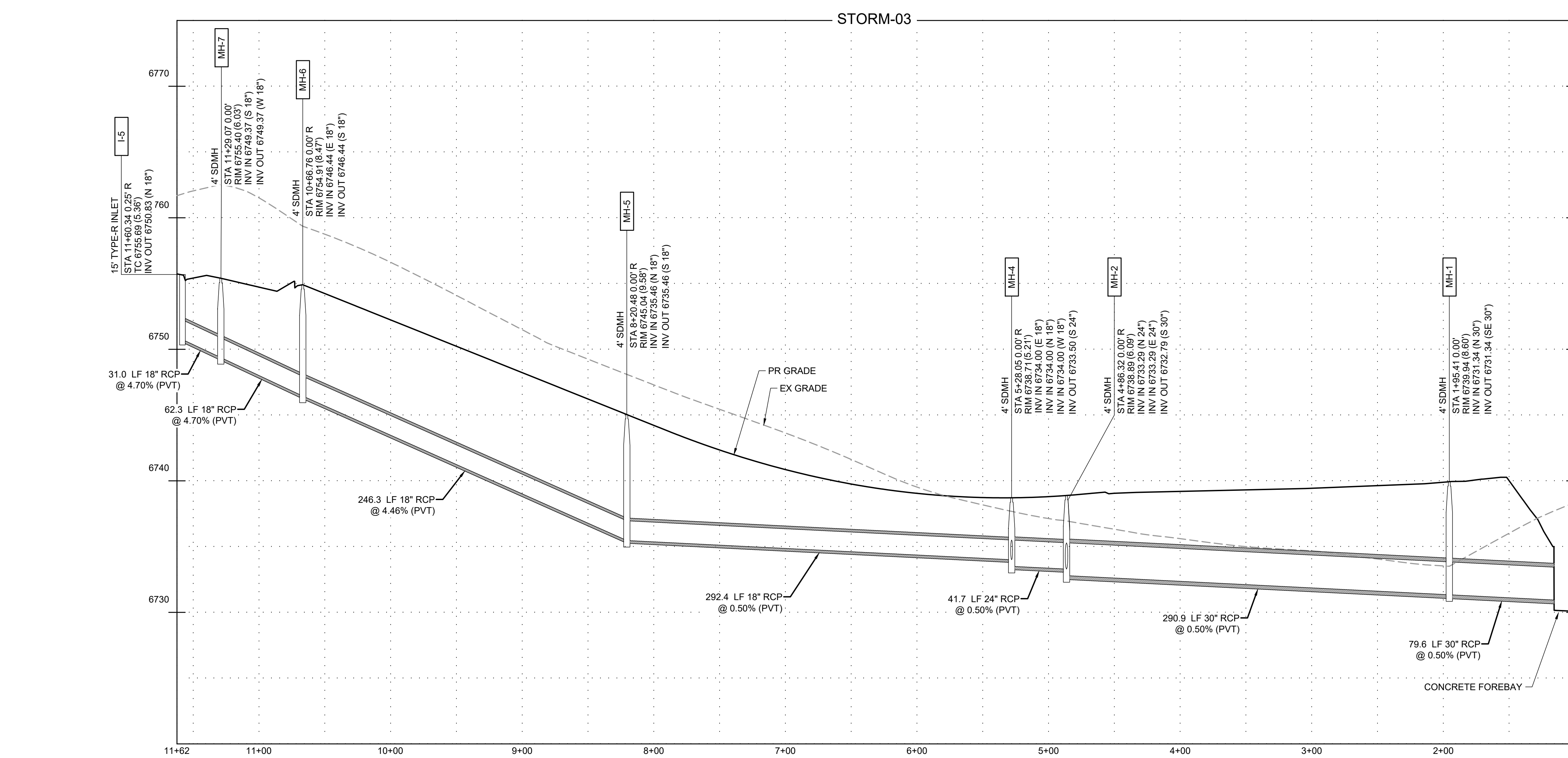
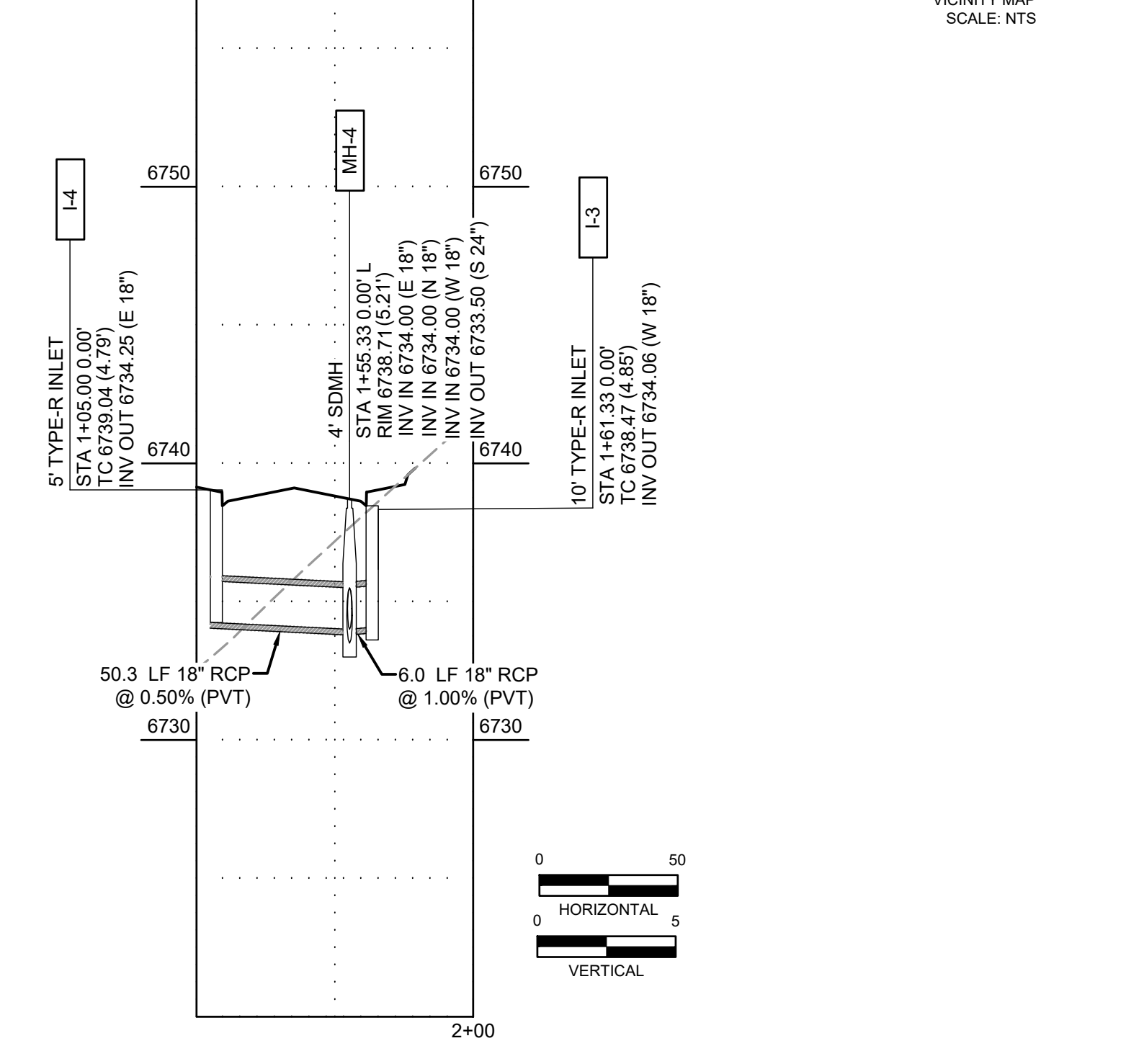
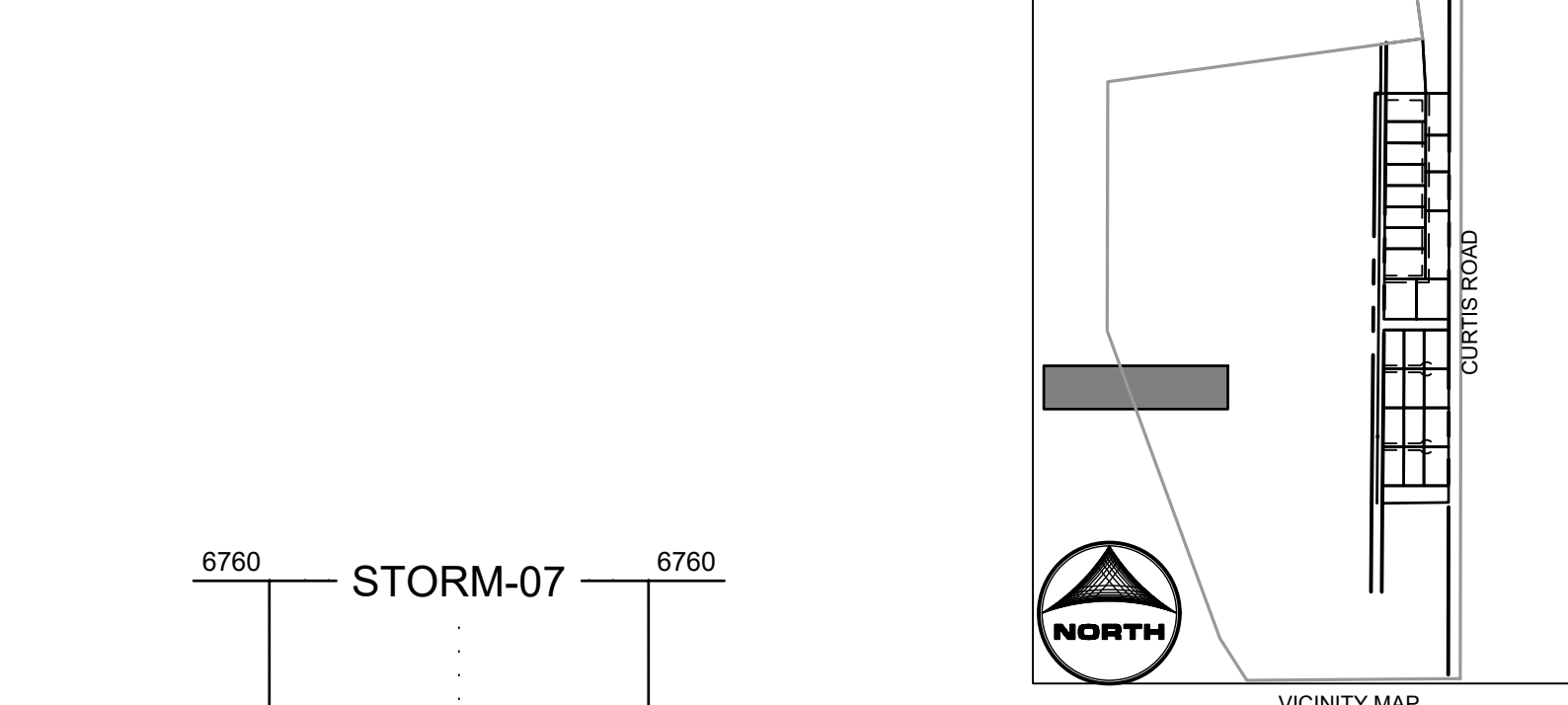
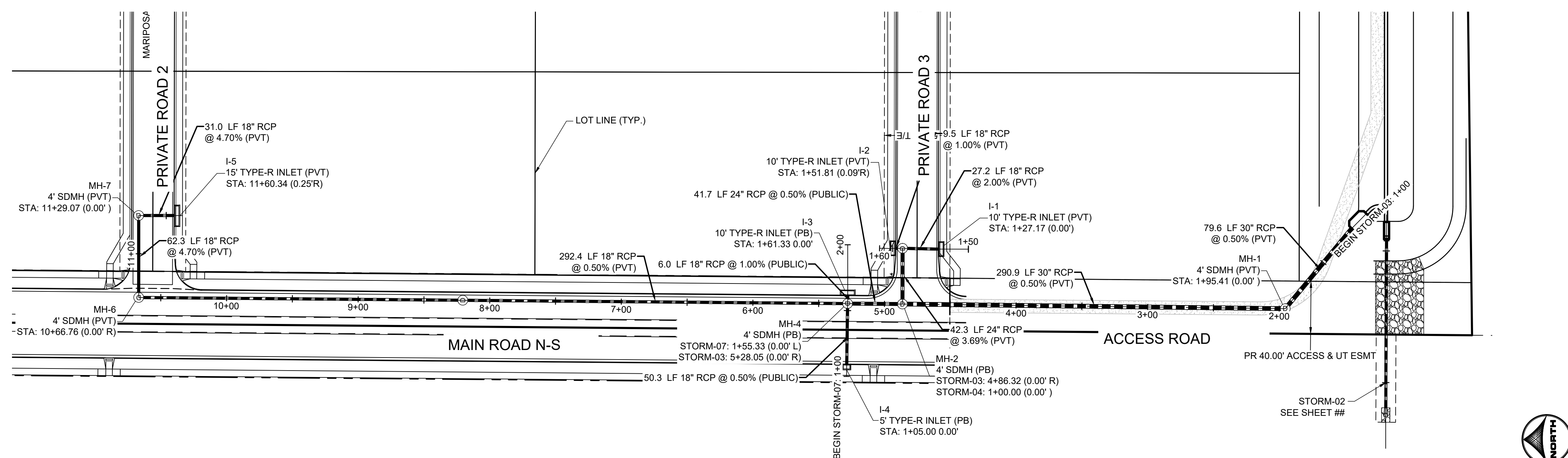
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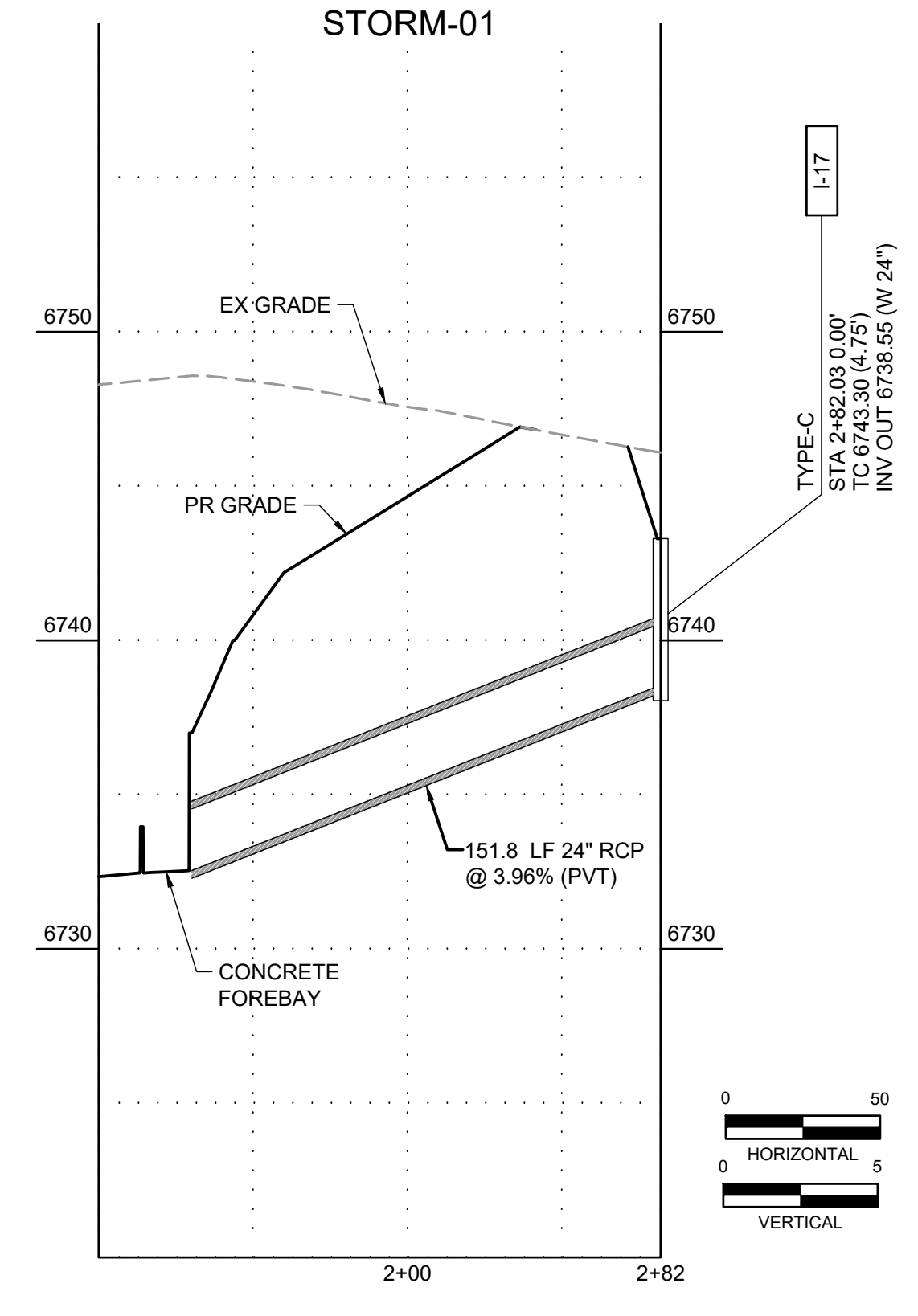
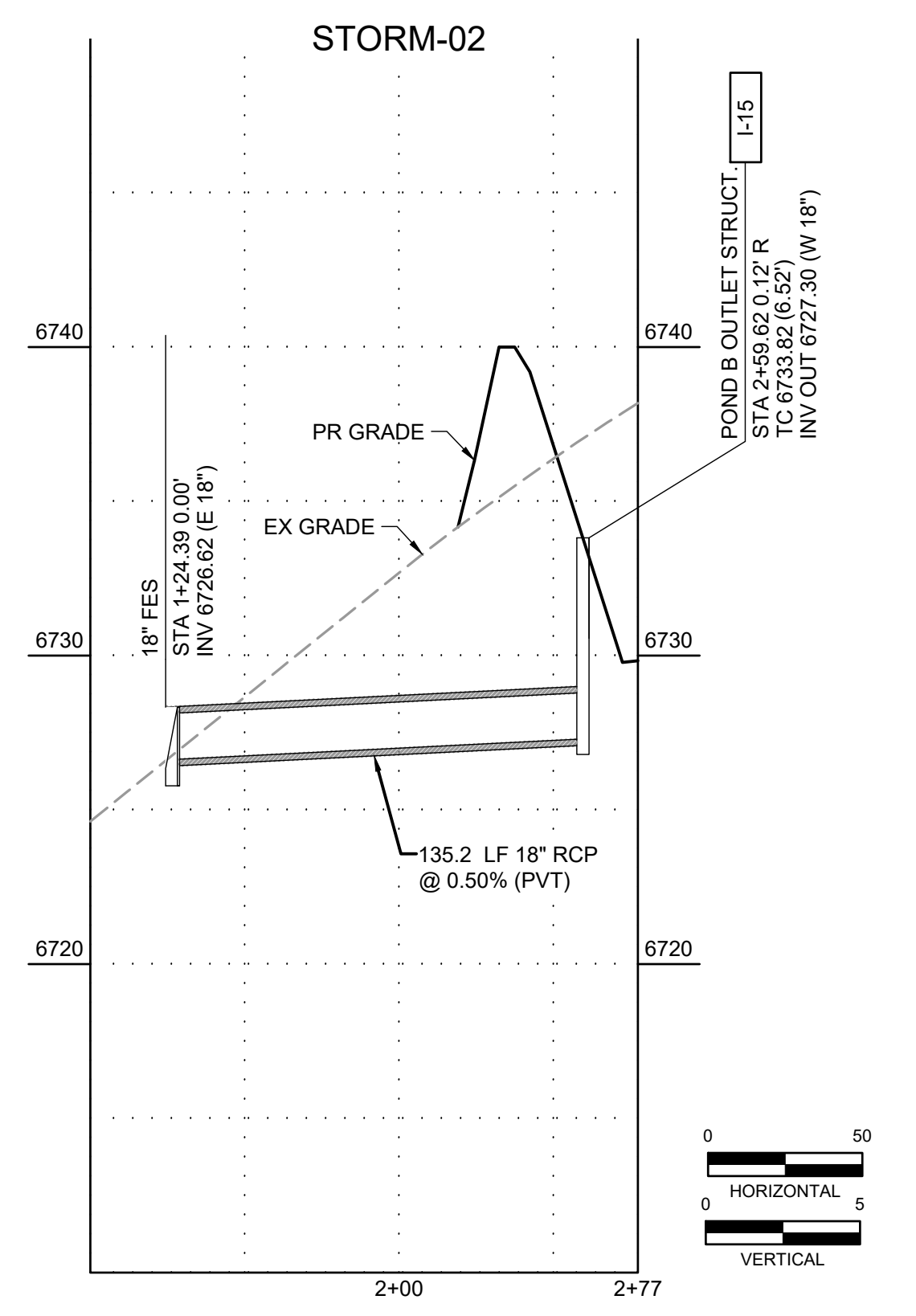
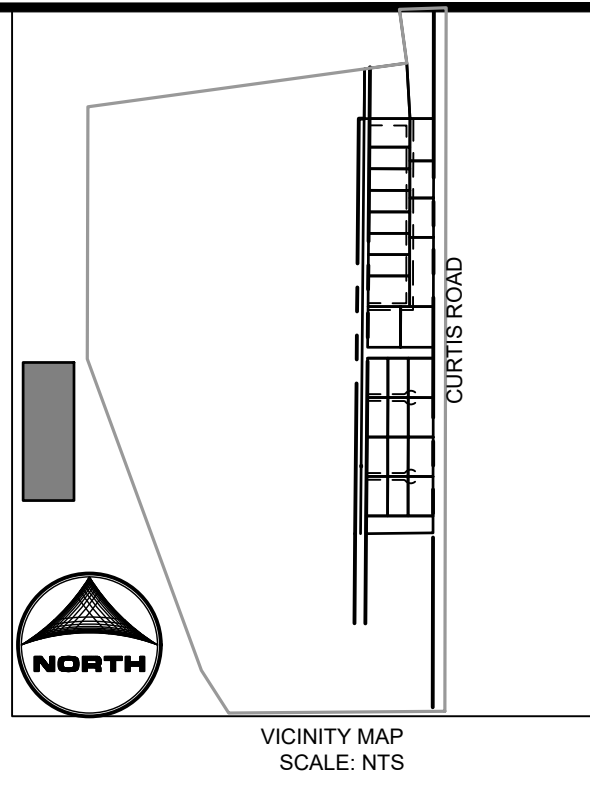
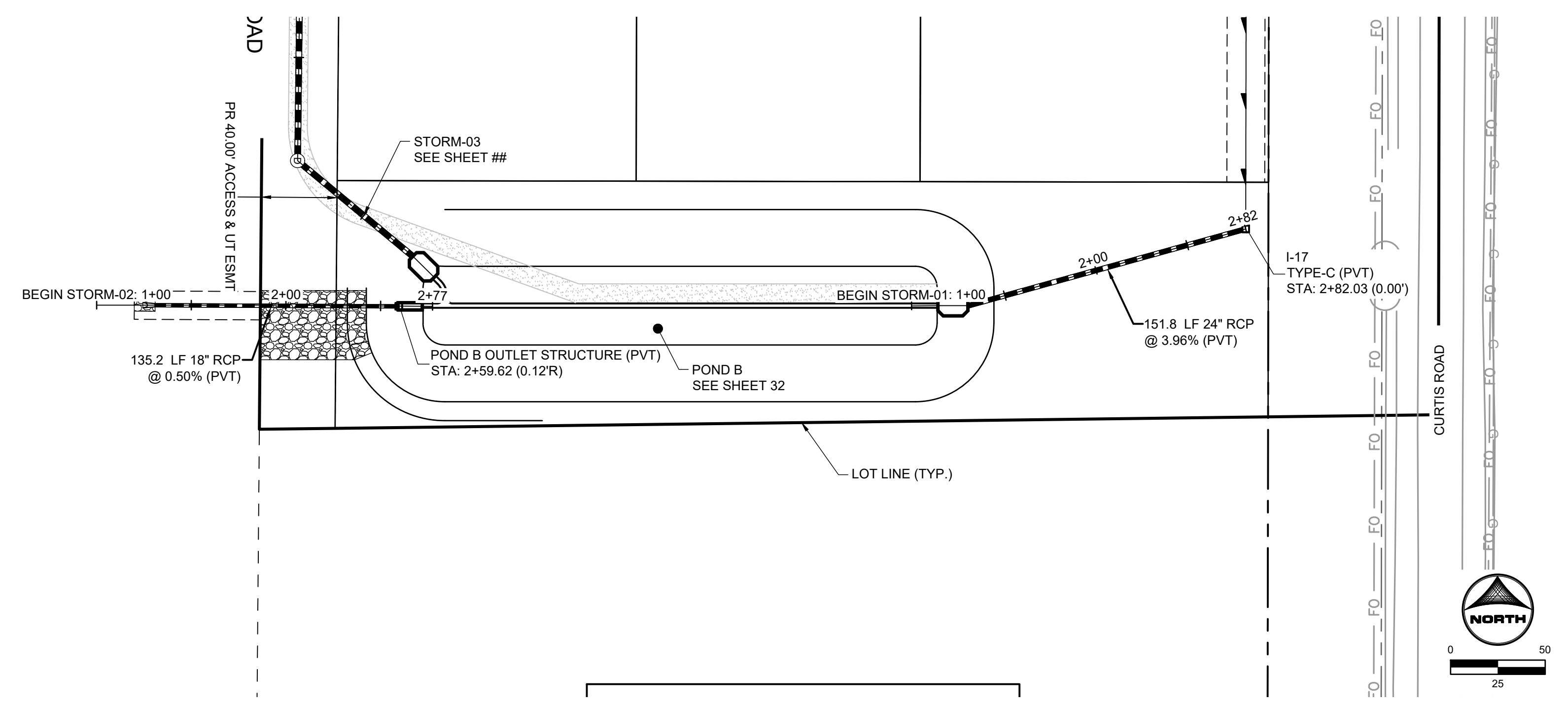


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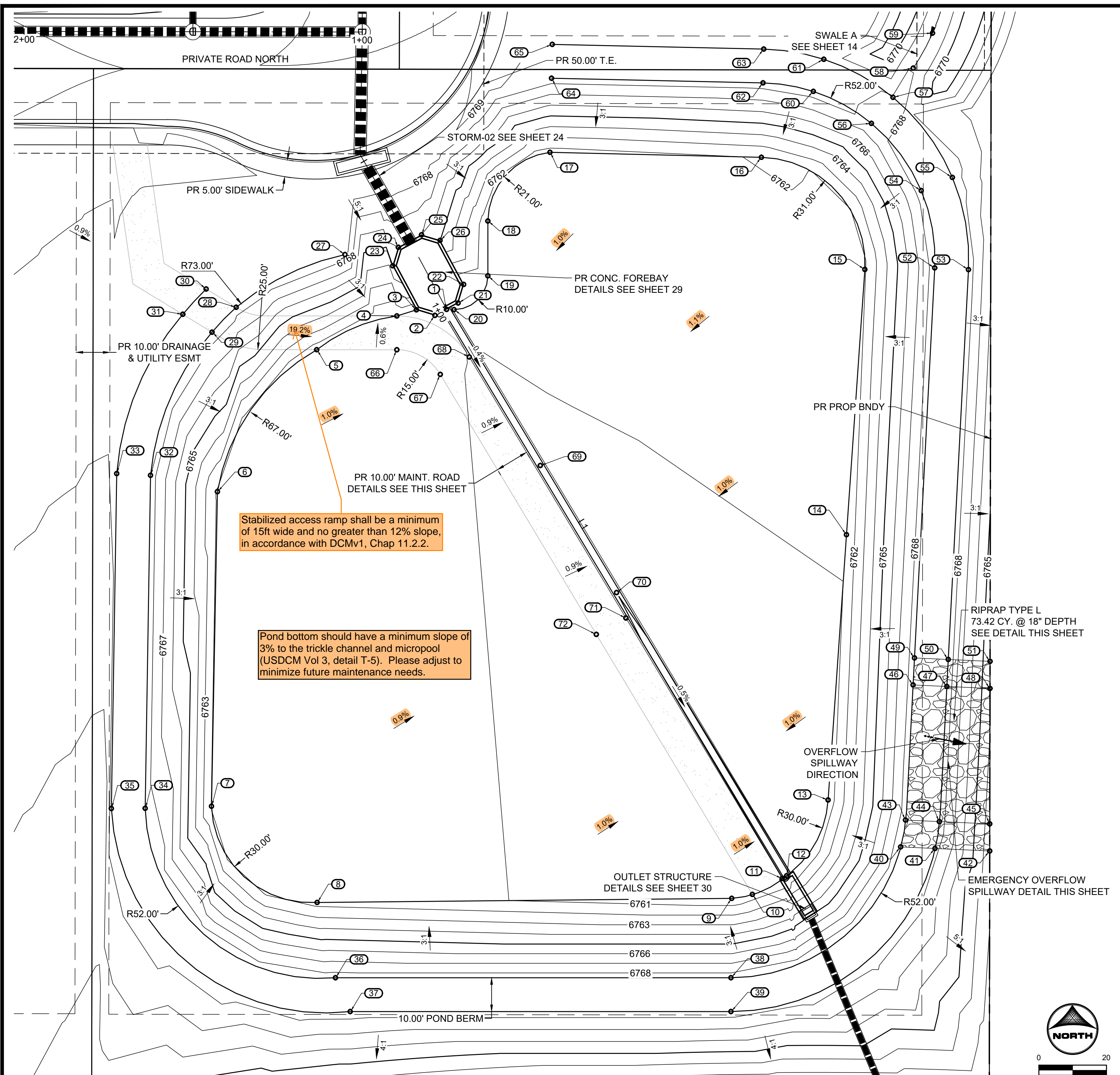
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Stabilized access ramp shall be a minimum of 15ft wide and no greater than 12% slope, in accordance with DCMv1, Chap 11.2.2.

Pond bottom should have a minimum slope of 3% to the trickle channel and micropool (USDCM Vol 3, detail T-5). Please adjust to minimize future maintenance needs.

MHFD Spreadsheet in DR shows 4:1 side slopes. Verify and update so both match.

No.	DESC.	NORTHING & EASTING	ELEV
1	FB NOTCH	N: 1402546.64 E: 3270429.11	6760.50
2	FB	N: 1402544.86 E: 3270425.66	6761.08
3	BP	N: 1402546.51 E: 3270420.18	6761.11
4	MAINT. RD/BP	N: 1402544.70 E: 3270414.39	6761.14
5	MAINT. RD/BP	N: 1402534.72 E: 3270390.69	6761.46
6	BP	N: 1402492.76 E: 3270361.32	6761.86
7	BP	N: 1402399.76 E: 3270359.57	6761.96
8	BP	N: 1402371.30 E: 3270390.80	6761.63
9	BP	N: 1402372.52 E: 3270513.44	6760.26
10	END MAINT. RD	N: 1402373.69 E: 3270519.54	6760.48
11	END MAINT. RD	N: 1402378.42 E: 3270528.36	6760.09
12	TC FLOWLINE	N: 1402379.20 E: 3270529.65	6759.51
13	BP	N: 1402401.60 E: 3270541.93	6760.36
14	BP	N: 1402480.03 E: 3270547.37	6761.14
15	BP	N: 1402558.46 E: 3270552.81	6761.91
16	BP	N: 1402591.61 E: 3270522.20	6762.04
17	BP	N: 1402593.09 E: 3270459.68	6761.61
18	BP	N: 1402572.77 E: 3270441.30	6761.35
19	BP	N: 1402556.57 E: 3270441.30	6761.21
20	BP	N: 1402546.57 E: 3270431.30	6761.07
21	FB	N: 1402548.54 E: 3270432.51	6761.08
22	FB	N: 1402554.02 E: 3270434.16	6761.11
23	FB	N: 1402559.52 E: 3270413.19	6765.00
24	FB	N: 1402565.00 E: 3270414.84	6766.00

No.	DESC.	NORTHING & EASTING	ELEV
25	FB	N: 1402568.68 E: 3270421.68	6766.00
26	FB	N: 1402567.03 E: 3270427.16	6765.01
27	TP	N: 1402562.86 E: 3270399.05	6768.50
28	MAINT. RD/TP	N: 1402547.27 E: 3270366.87	6768.50
29	MAINT. RD/TP	N: 1402539.91 E: 3270359.73	6768.50
30	MAINT. RD/TP	N: 1402552.68 E: 3270357.99	6768.50
31	MAINT. RD/TP	N: 1402545.20 E: 3270351.10	6768.50
32	TP	N: 1402497.58 E: 3270341.54	6768.50
33	TOB	N: 1402498.11 E: 3270331.55	6768.50
34	TP	N: 1402399.13 E: 3270339.96	6768.50
35	TOB	N: 1402399.08 E: 3270329.96	6768.50
36	TP	N: 1402349.05 E: 3270396.24	6768.50
37	TOB	N: 1402339.05 E: 3270400.59	6768.50
38	TP	N: 1402349.05 E: 3270513.20	6768.50
39	TOB	N: 1402339.05 E: 3270513.20	6768.50
40	SW	N: 1402387.73 E: 3270563.40	6768.50
41	SW	N: 1402387.27 E: 3270573.56	6768.31
42	RIPRAP	N: 1402386.54 E: 3270589.73	6763.40
43	SW CREST	N: 1402395.68 E: 3270564.83	6768.50
44	SW CREST	N: 1402395.22 E: 3270574.84	6768.50
45	RIPRAP	N: 1402394.55 E: 3270589.74	6763.54
46	SW CREST	N: 1402435.62 E: 3270567.06	6768.50
47	SW CREST	N: 1402435.17 E: 3270577.05	6768.50
48	RIPRAP	N: 1402434.59 E: 3270589.81	6764.21

No.	DESC.	NORTHING & EASTING	ELEV
49	SW	N: 1402443.61 E: 3270567.48	6768.50
50	SW	N: 1402443.15 E: 3270577.47	6768.50
51	RIPRAP	N: 1402442.59 E: 3270589.83	6764.32
52	TP	N: 1402558.92 E: 3270573.47	6768.50
53	TOB	N: 1402558.40 E: 3270583.45	6768.50
54	TP	N: 1402581.77 E: 3270569.47	6768.50
55	TOB	N: 1402585.65 E: 3270578.69	6768.50
56	TP	N: 1402601.64 E: 3270554.74	6767.80
57	TOB	N: 1402609.33 E: 3270561.12	6767.90
58	FL	N: 1402617.96 E: 3270567.11	6768.01
59	FL	N: 1402628.32 E: 3270572.83	6768.08
60	TP	N: 1402611.08 E: 3270537.58	6768.50
61	TOB	N: 1402620.59 E: 3270540.66	6768.50
62	TP	N: 1402613.60 E: 3270522.68	6768.50
63	TOB	N: 1402623.60 E: 3270522.90	6768.50
64	TP	N: 1402614.98 E: 3270460.13	6768.50
65	TOB	N: 1402624.98 E: 3270460.35	???
66	MAINT. RD	N: 1402534.70 E: 3270414.38	6761.21
67	MAINT. RD	N: 1402527.42 E: 3270427.23	6761.08
68	MAINT. RD	N: 1402532.57 E: 3270435.81	6760.99
69	TC FLOWLINE	N: 1402500.48 E: 3270456.82	6760.23
70	TC FLOWLINE	N: 1402462.92 E: 3270479.38	6760.01
71	MAINT. RD	N: 1402455.40 E: 3270482.14	6760.54
72	MAINT. RD	N: 1402450.55 E: 3270473.39	6760.64

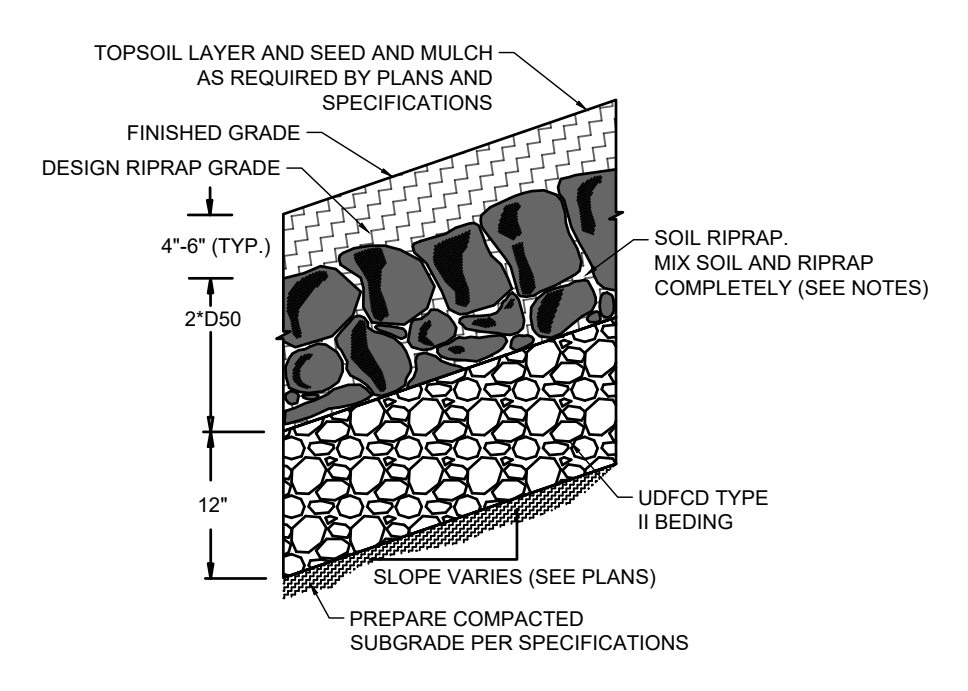
Line Table

Line #	Length	Direction	Centerline/Flowline
L1	195.31	S 30°58'57" E	Centerline

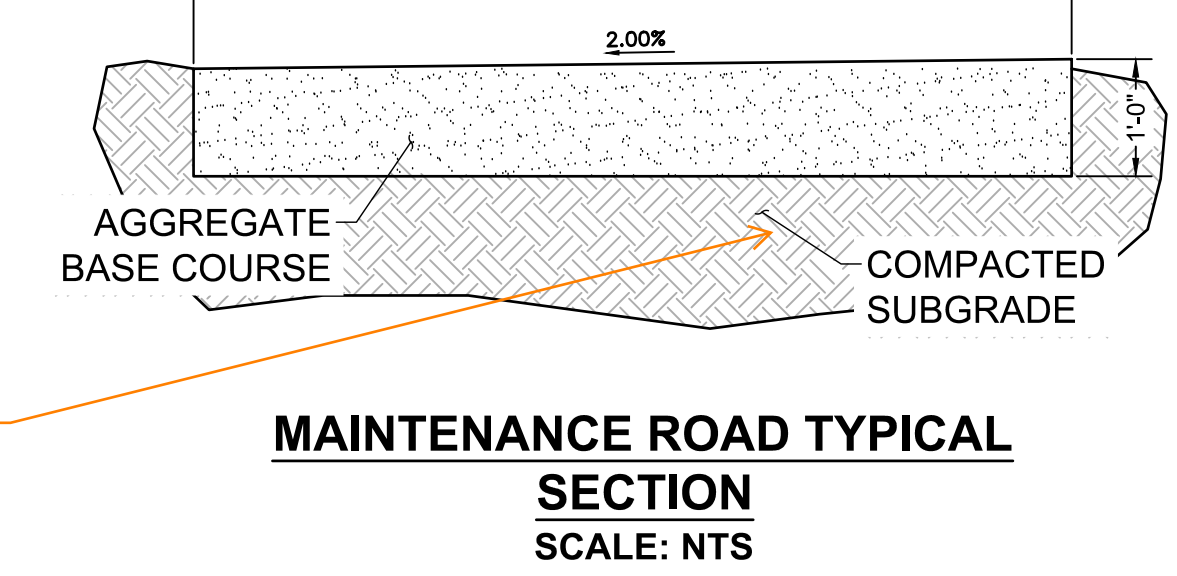
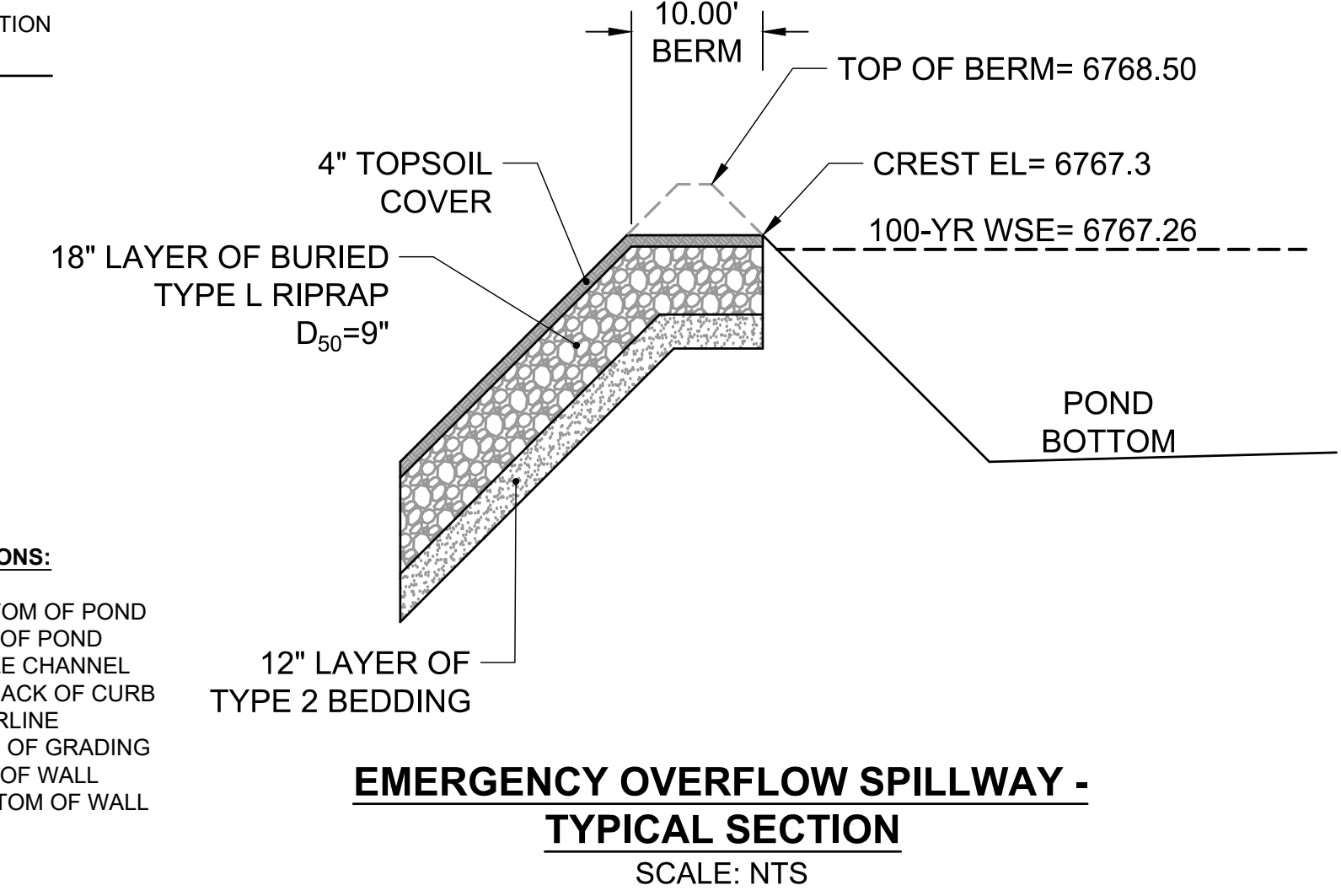
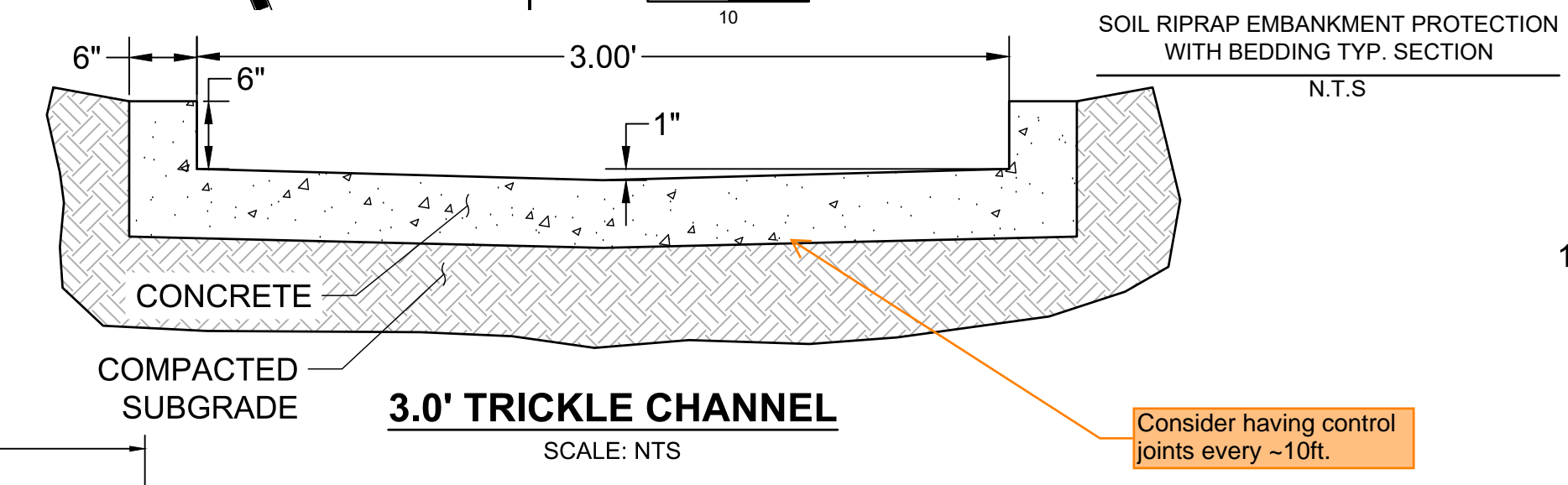
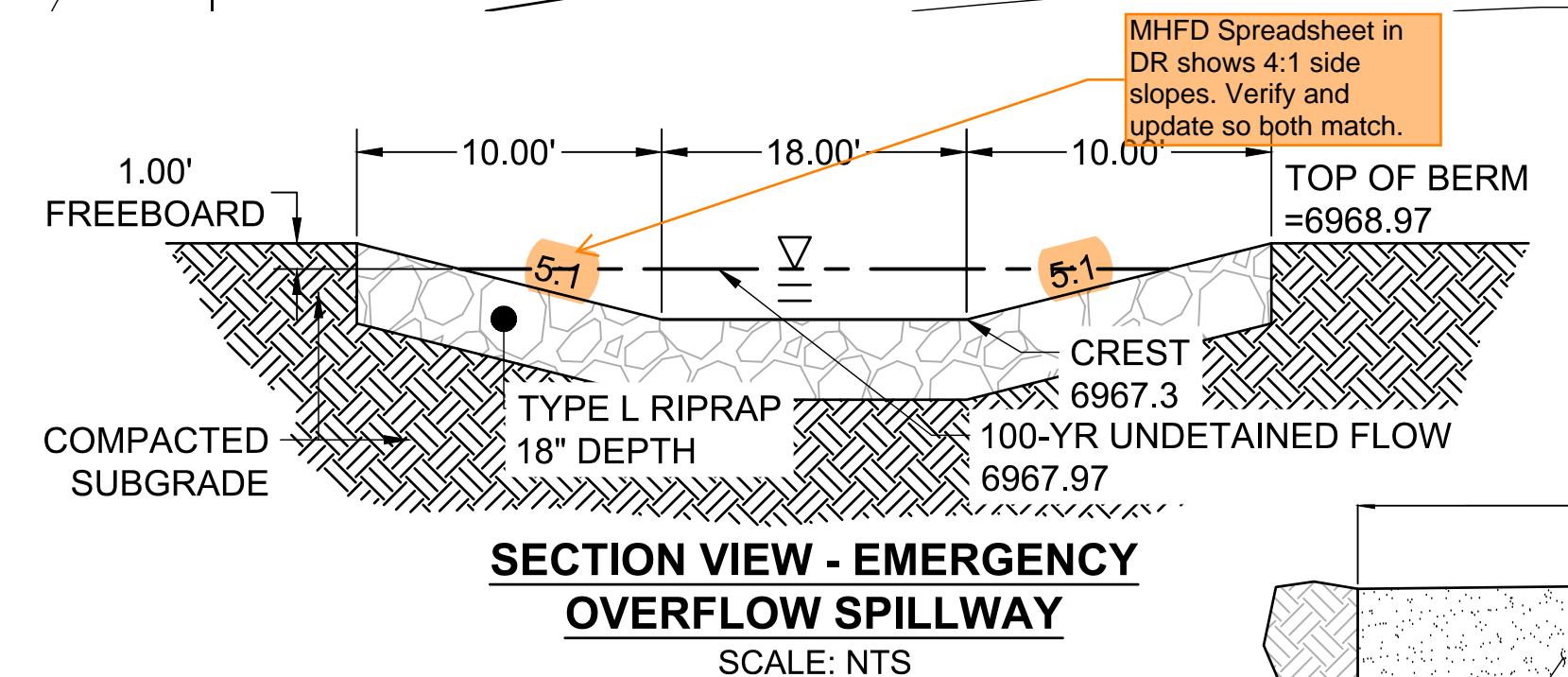
TYPE L RIPRAP

INTERMEDIATE ROCK DIMENSION (IN.)	PERCENT PASSING (%)
15	70-100
12	50-70
9	35-50
3	2-10

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



- RIPRAP NOTES:**
- SOIL RIPRAP DETAILS ARE APPLICABLE TO SLOPED AREAS REFER TO THE SITE PLAN ACTUAL LOCATION AND LIMITS.
  - MIX UNIFORMLY 65% RIPRAP BY VOLUME WITH 35% OF APPROVED SOIL BY VOLUME PRIOR TO PLACEMENT.
  - PLACE STONE-SOIL MIX TO RESULT IN SECURELY INTERLOCKED ROCK AT THE DESIGN THICKNESS AND GRADE. COMPACT AND LEVEL TO ELIMINATE ALL VOIDS AND ROCKS PROJECTING ABOVE DESIGN RIPRAP TOP GRADE. CRIMP OR TACKIFY MULCH OR USE APPROVED HYDROMULCH AS CALLED FOR IN THE PLANS AND SPECIFICATIONS.
  - ROCK SHALL BE HARD, DURABLE, ANGULAR IN SHAPE, AND FREE FROM CRACKS, OVERBURDEN, SHALE, AND ORGANIC MATTER.
  - NEITHER BREADTH NOR THICKNESS OF A SINGLE STONE SHOULD BE LESS THAN ONE-THIRD ITS LENGTH, AND ROUNDED STONE SHOULD BE AVOIDED.
  - 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 PROCEDURE A).
  - 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.



- POND GRADING NOTES:**
- TWO SIGNS OF MINIMUM 3 SQ. FT. AREA, SHALL BE INSTALLED AROUND THE POND 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."
  - SEE LANDSCAPE PLAN FOR RE-SEEDING AREAS ASSOCIATED WITH PERMANENT CONTROL MEASURE IMPROVEMENTS.
  - 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.
- ABBREVIATIONS:**
- B.O.P - BOTTOM OF POND  
T.O.P - TOP OF POND  
T.C - TRICKLE CHANNEL  
T.B.C - TOP BACK OF CURB  
C.L. - CENTERLINE  
E.O.G - EDGE OF GRADING  
T.O.W. - TOP OF WALL  
B.O.W. - BOTTOM OF WALL

DRAWN BY: DLH JOB DATE: 6/9/2023  
 APPROVED: CM JOB NUMBER: 2202774  
 CAD DATE: 8/25/2023  
 CAD FILE: J:\2022\2202774\CAD\DWG\CID\Pond\_North

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

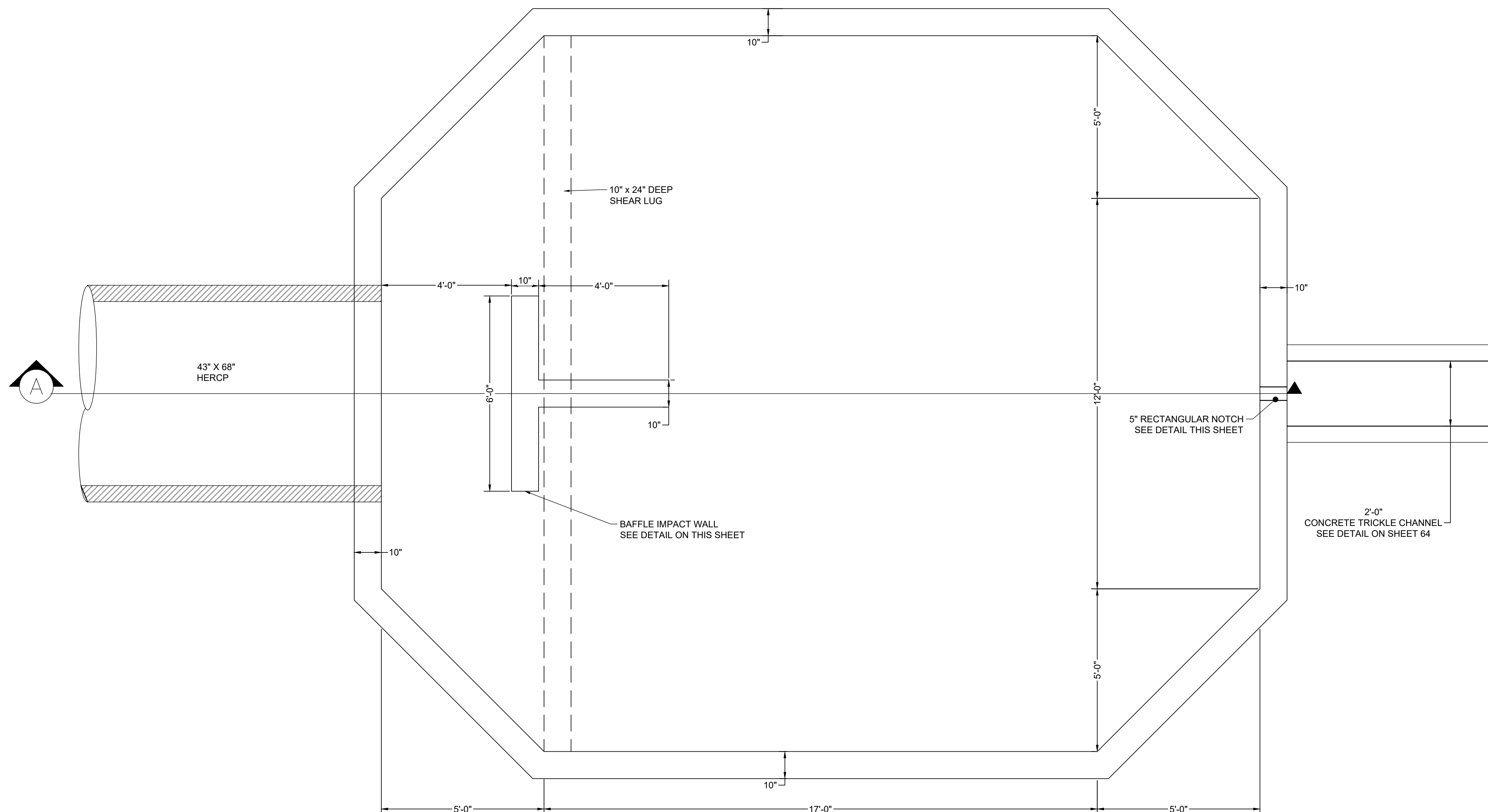
NO.	DATE	BY	REVISION DESCRIPTION

**HRGreen**  
 HR GREEN - COLORADO SPRINGS  
 1975 RESEARCH PARKWAY SUITE 230  
 COLORADO SPRINGS, CO 80920  
 PHONE: 719.384.2440  
 FAX: 713.965.0044

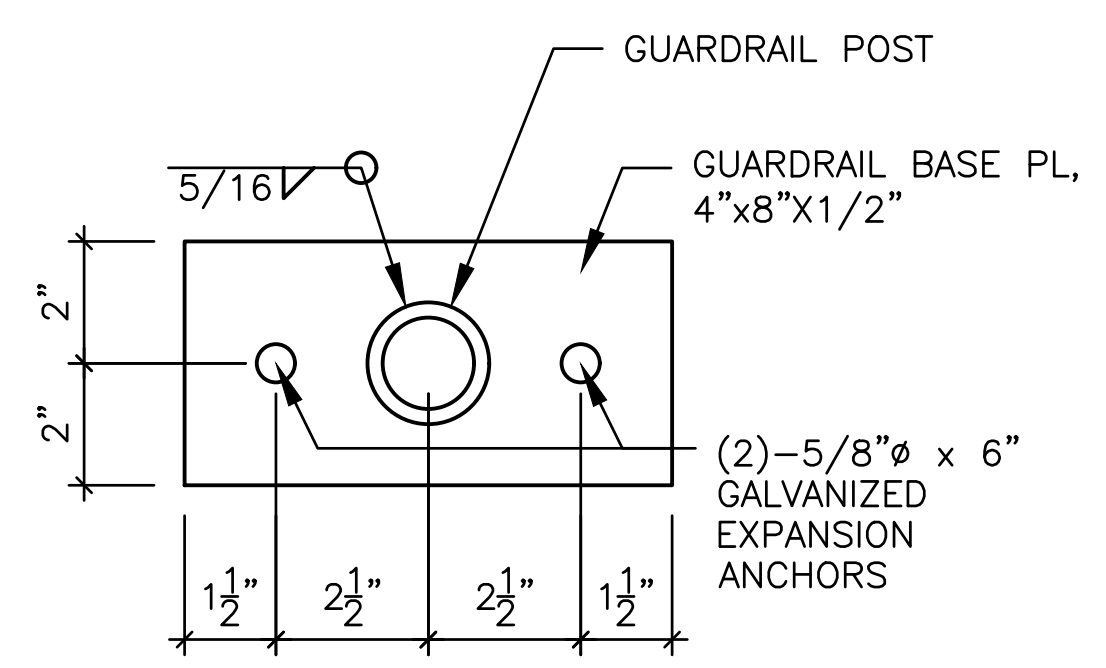
MEADOW LAKE INDUSTRIAL FILING NO. 1  
 MEADOWLAKE DEVELOPMENTS, LLC  
 EL PASO COUNTY, CO

CONSTRUCTION DOCUMENTS  
 POND A - GRADING PLAN

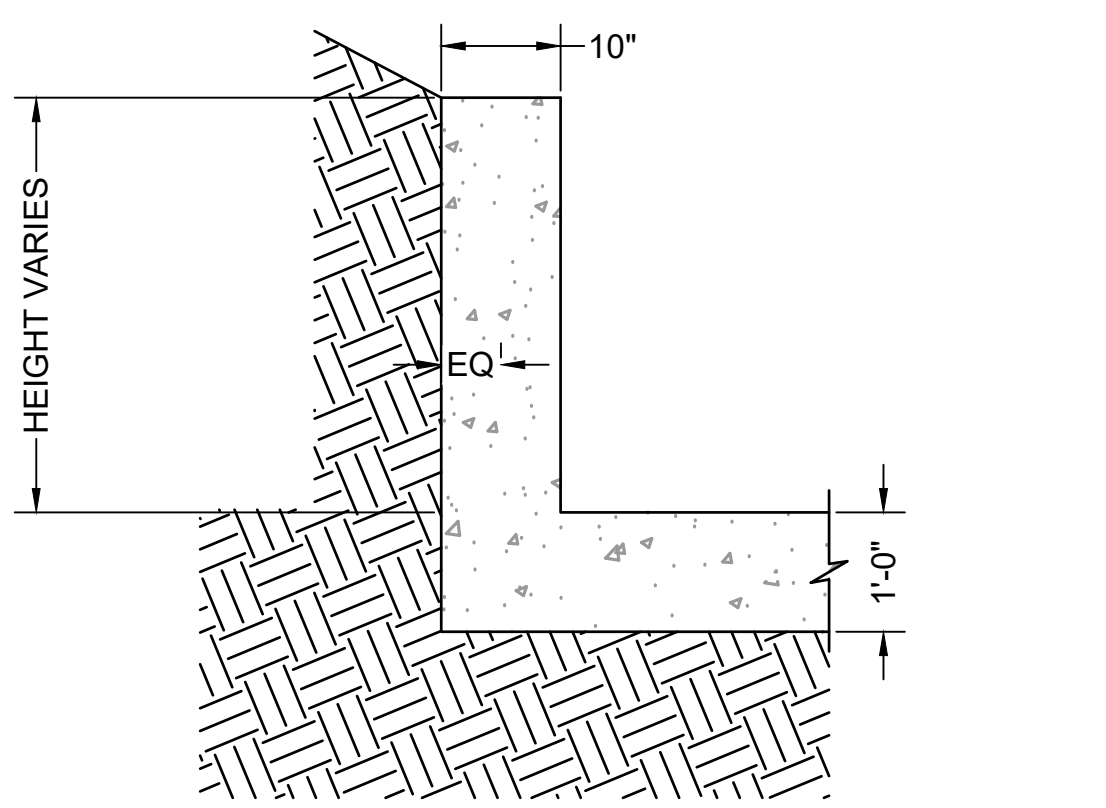
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 GP  
 28



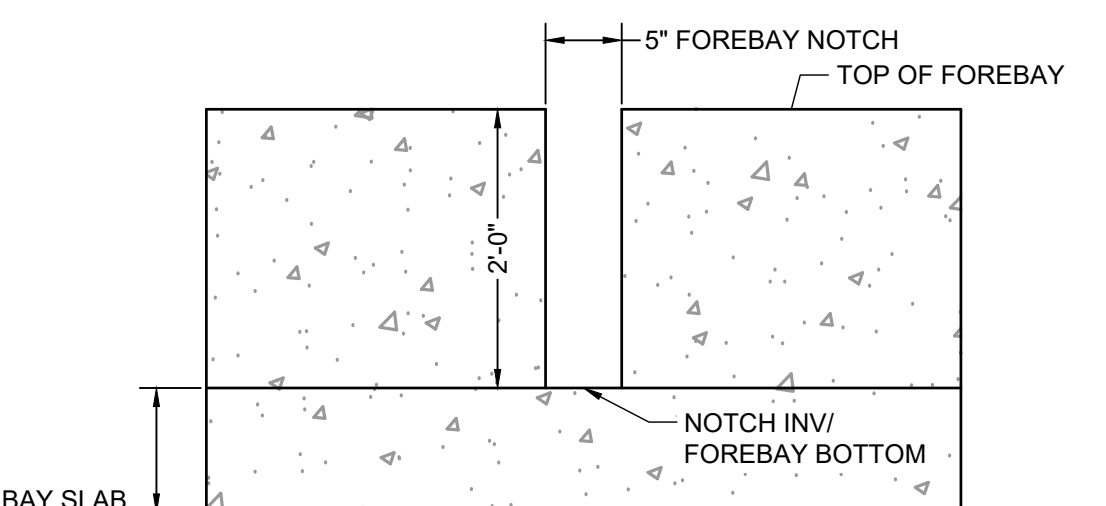
PLAN VIEW  
FOREBAY #1  
SCALE: 1"=2'



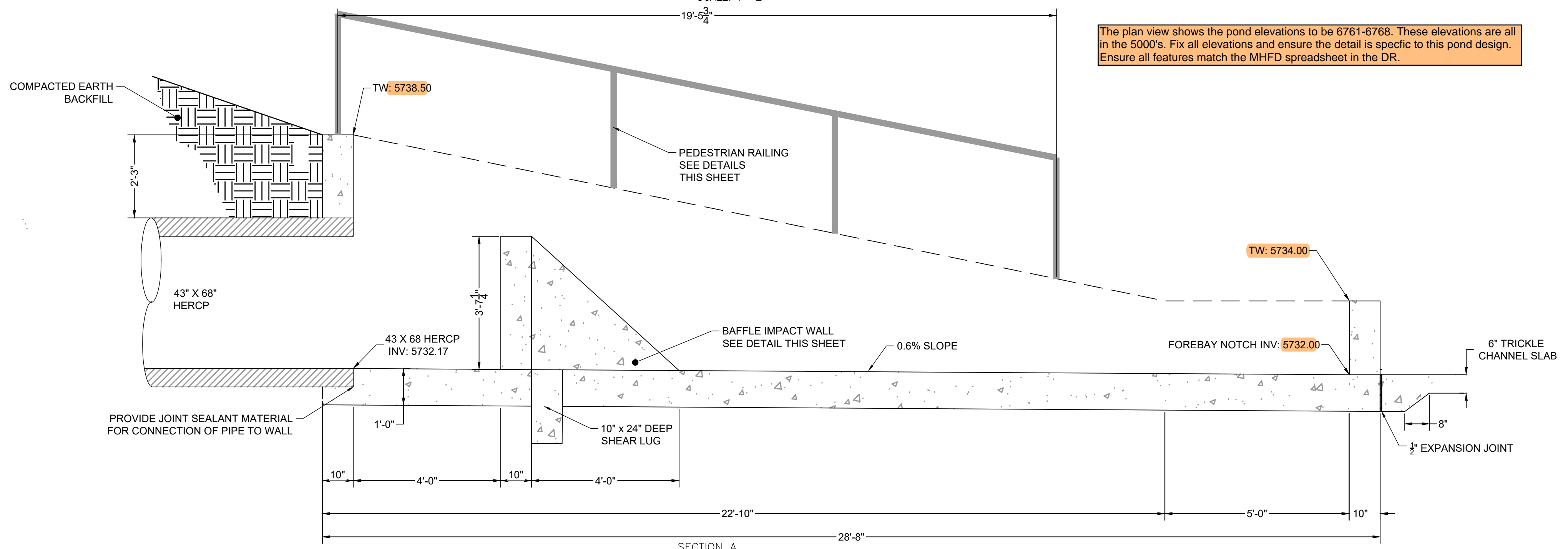
ELEVATION VIEW  
HANDRAIL POST DETAIL  
SCALE: NTS



ELEVATION VIEW  
FOREBAY WINGWALL REINFORCEMENT DETAIL  
SCALE: NTS

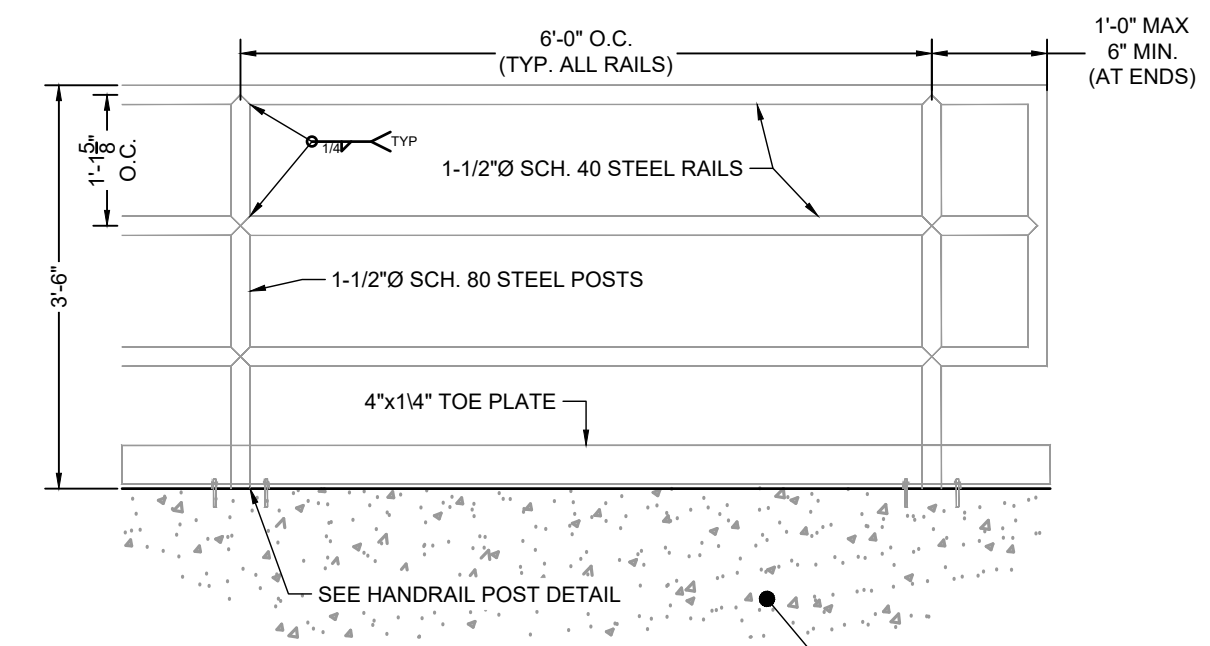


ELEVATION VIEW  
FOREBAY NOTCH DETAIL  
SCALE: NTS



SECTION A  
FOREBAY #1  
SCALE: 1"=2'

The plan view shows the pond elevations to be 6761-6768. These elevations are all in the 5000's. Fix all elevations and ensure the detail is specific to this pond design. Ensure all features match the MHFD spreadsheet in the DR.



ELEVATION VIEW  
HANDRAIL POST DETAIL  
SCALE: NTS

**FOREBAY NOTES:**

- SEE SHEET 65 FOR STRUCTURAL NOTES AND DETAILS.
- PEDESTRIAN RAILING IS NOT SHOWN IN PLAN VIEW DETAILS. SEE SECTION A FOR RAILING LOCATION.

DRAWN BY: AXB	JOB DATE: 6/5/2023	BAR IS ONE INCH ON OFFICIAL DRAWINGS.
APPROVED: CPM	JOB NUMBER: 2202774	0" = 1"
CAD DATE: 8/25/2023		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD FILE: J:\2022\2202774\CAD\DWG\CID\North_Forebay_Details		

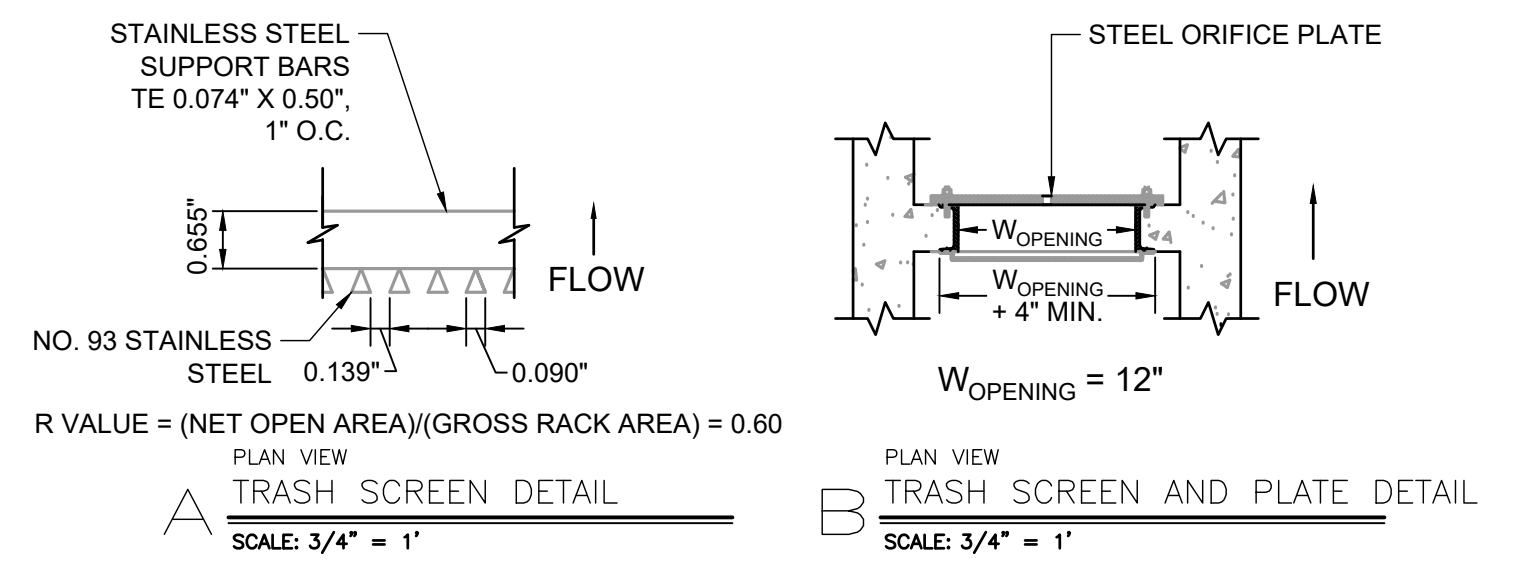
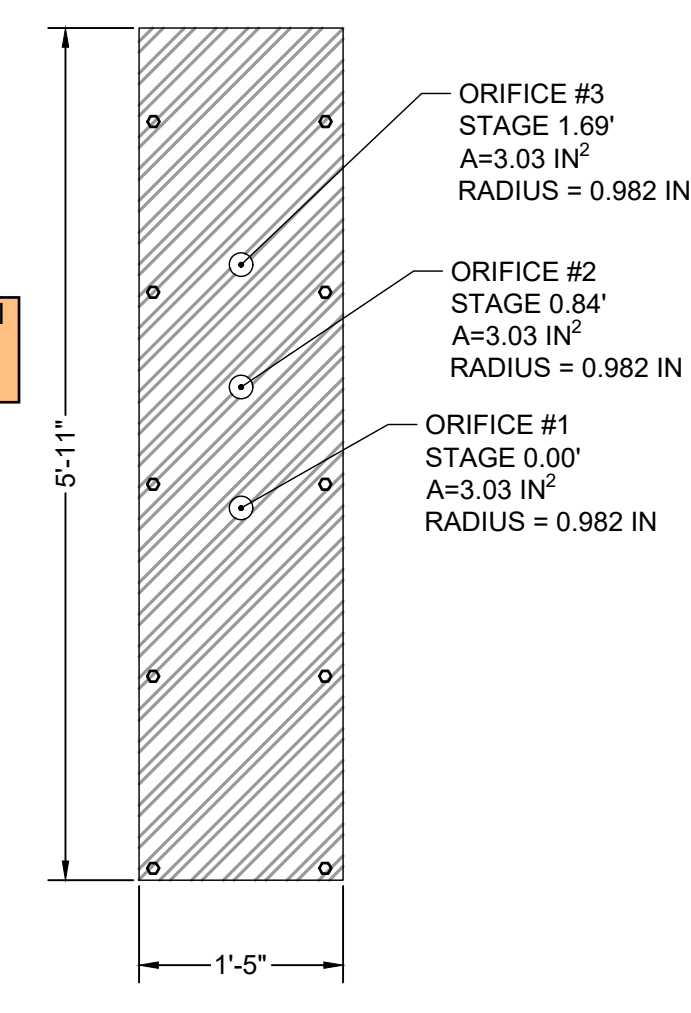
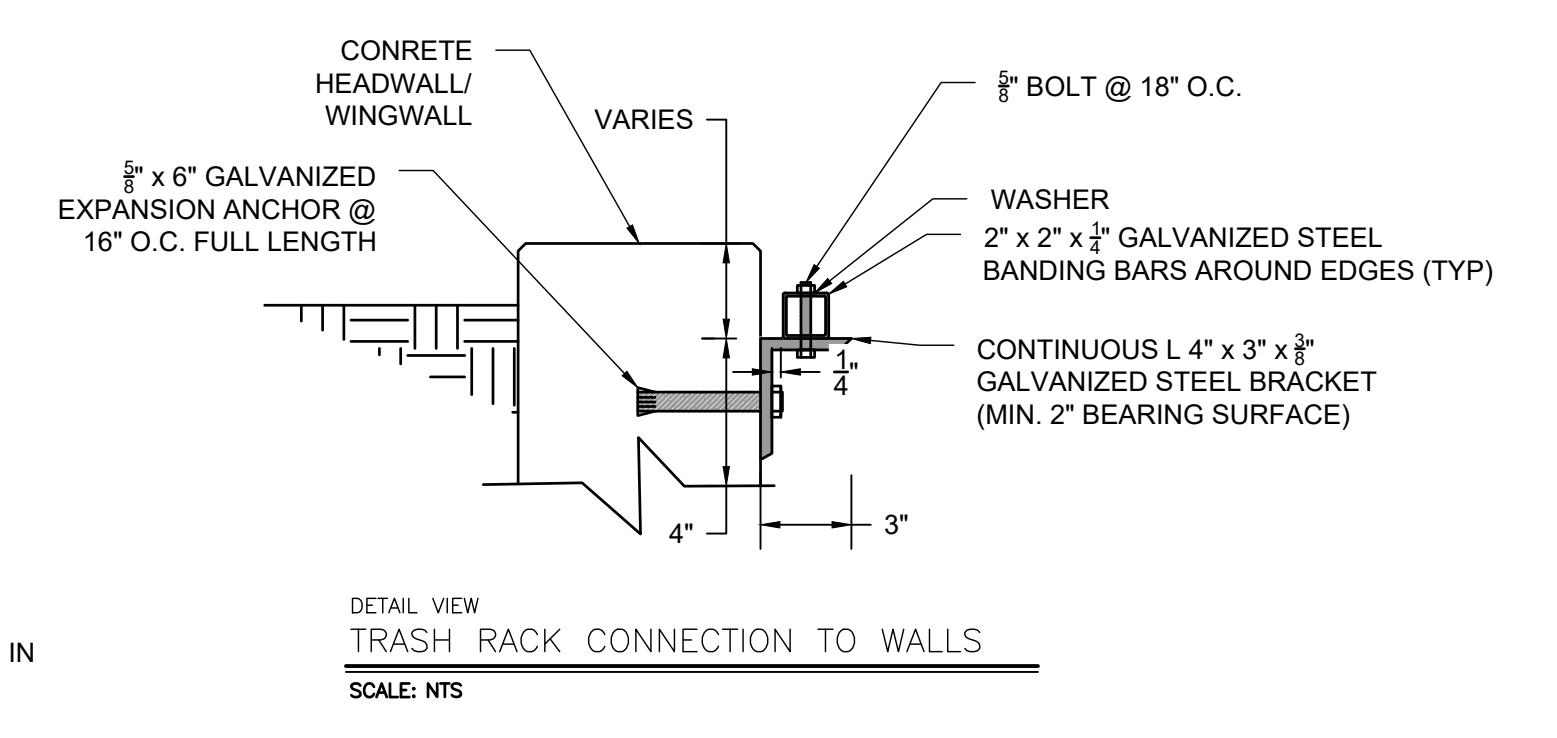
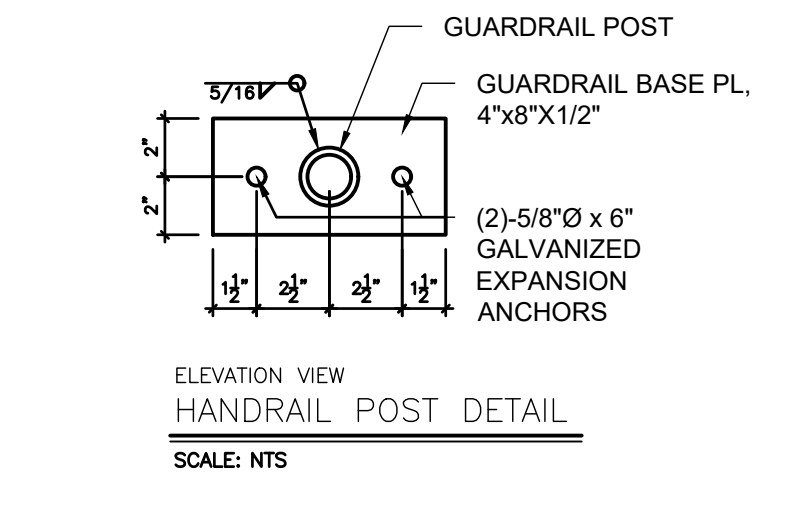
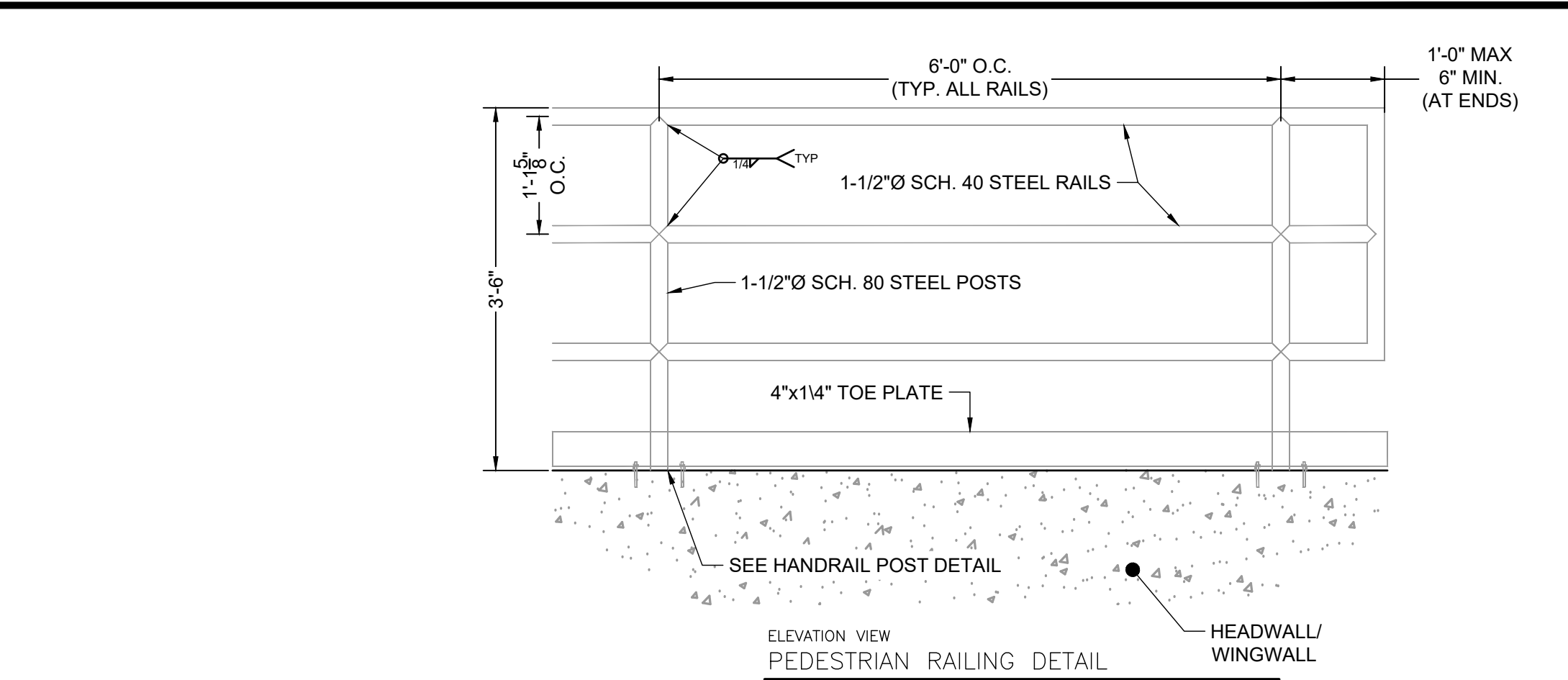
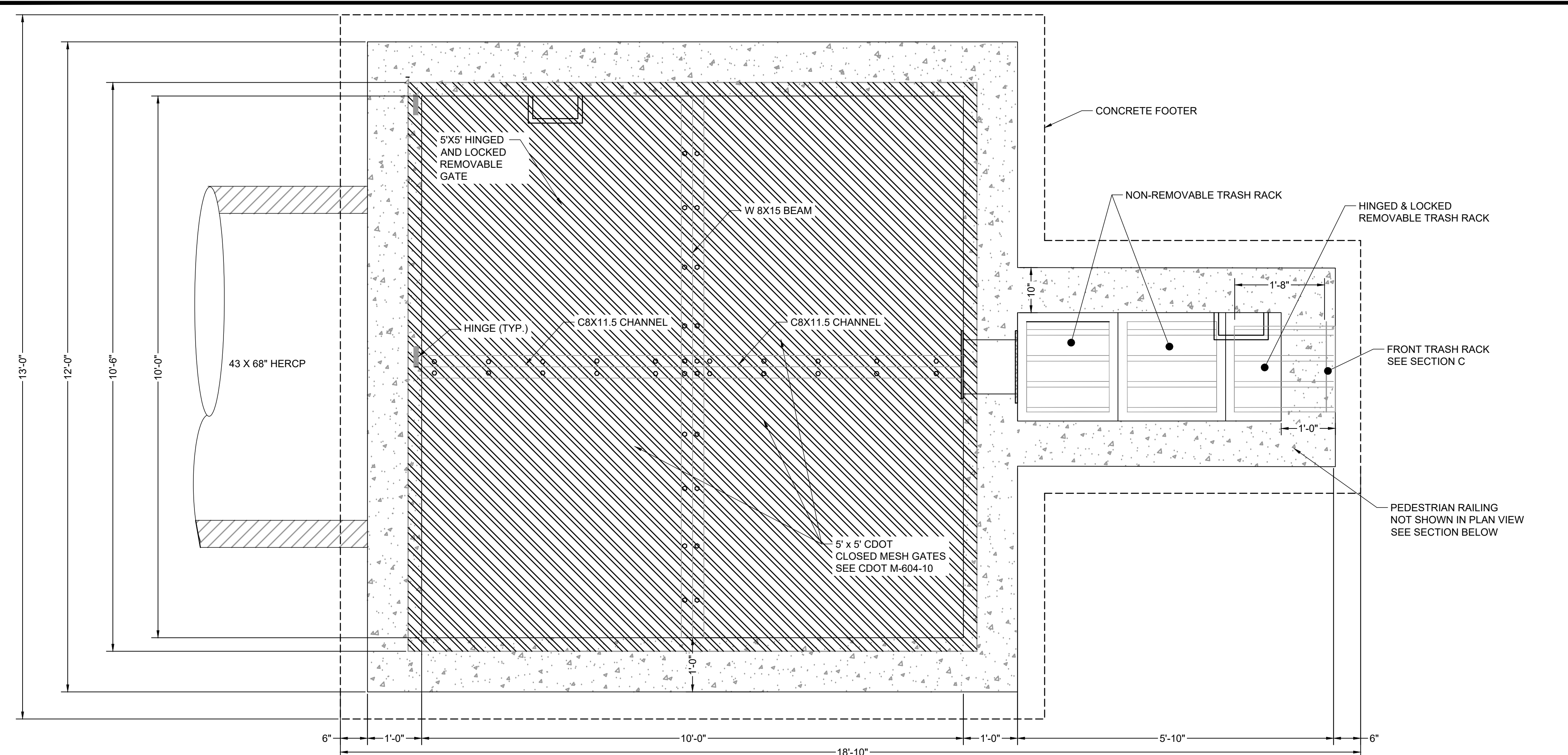
NO.	DATE	BY	REVISION DESCRIPTION

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

**MEADOW LAKE INDUSTRIAL FILING NO. 1**  
**MEADOWLAKE DEVELOPMENTS, LLC**  
 EL PASO COUNTY, CO

CONSTRUCTION DOCUMENTS  
 POND A - FOREBAY DETAILS

SHEET  
**FB**  
 29



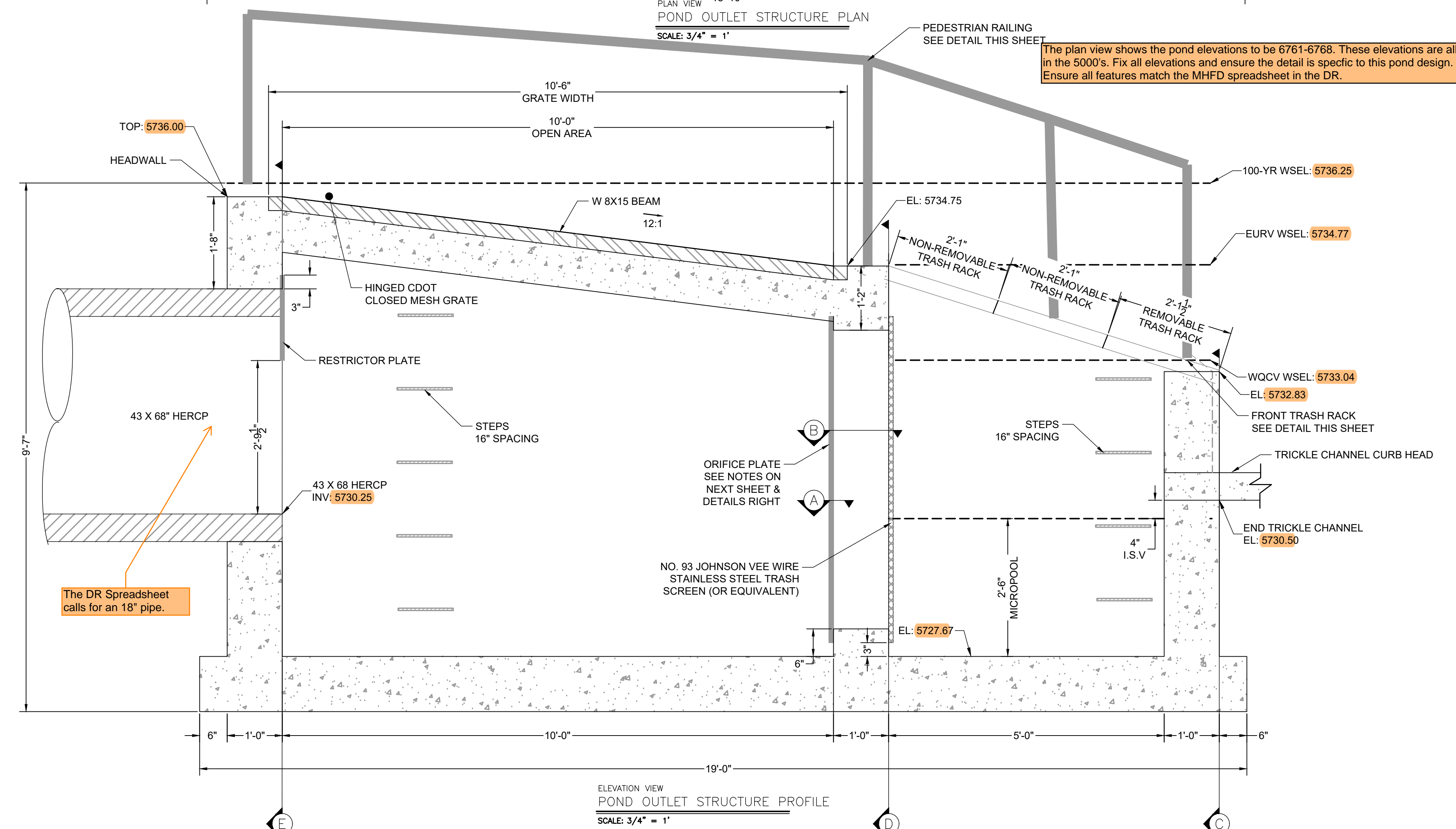
\*REINFORCEMENT DESIGN WILL BE PROVIDED PRIOR TO APPROVAL BY CITY OF COLORADO SPRINGS

- ORIFICE PLATE NOTES:**
1. PLATE TO BE 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

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

**POND WARNING SIGN**  
SCALE: NTS  
MINIMUM SIGN AREA = 3 FT<sup>2</sup>  
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



The plan view shows the pond elevations to be 6761-6768. These elevations are all in the 5000's. Fix all elevations and ensure the detail is specific to this pond design. Ensure all features match the MHD spreadsheet in the DR.

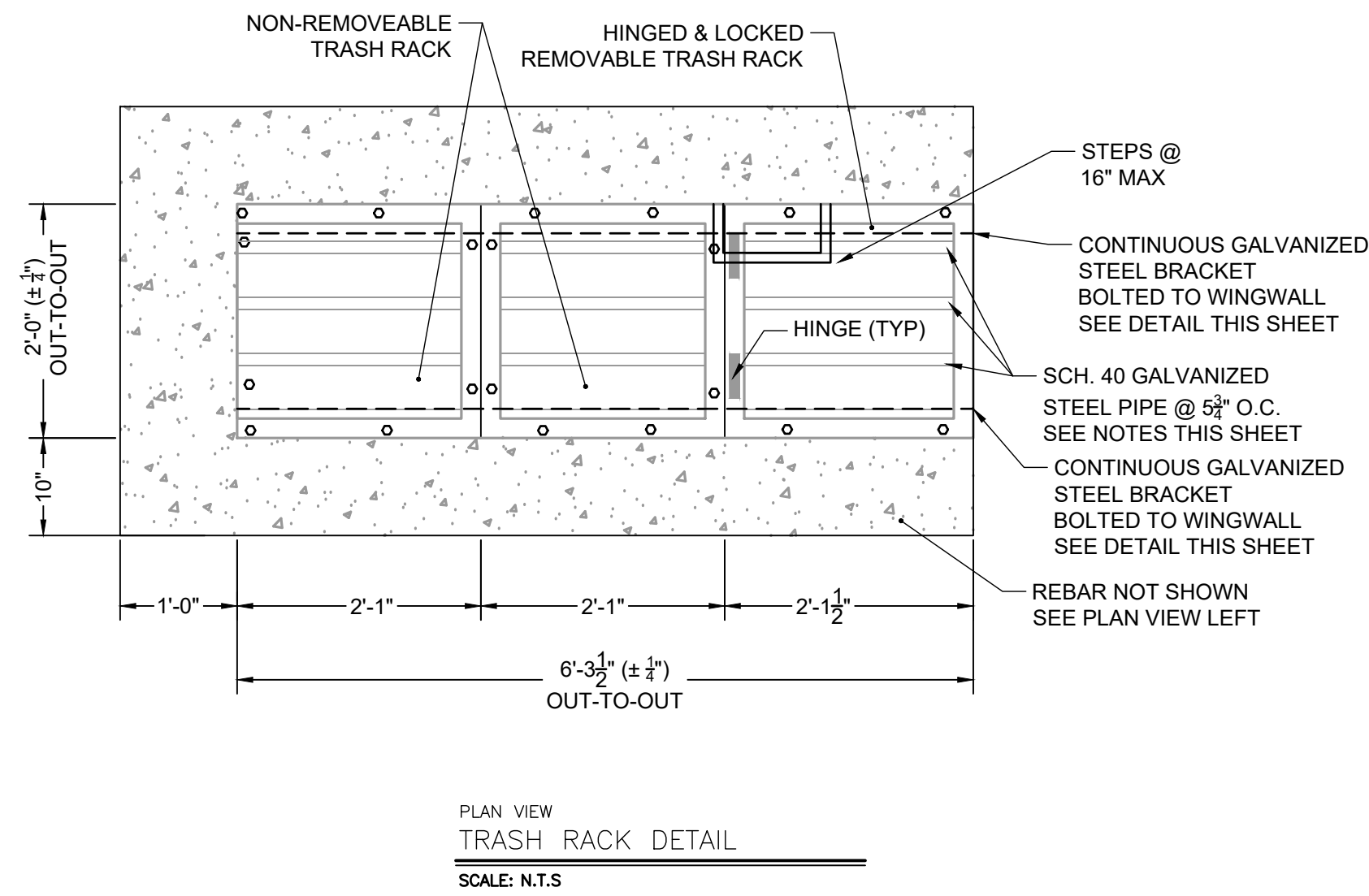
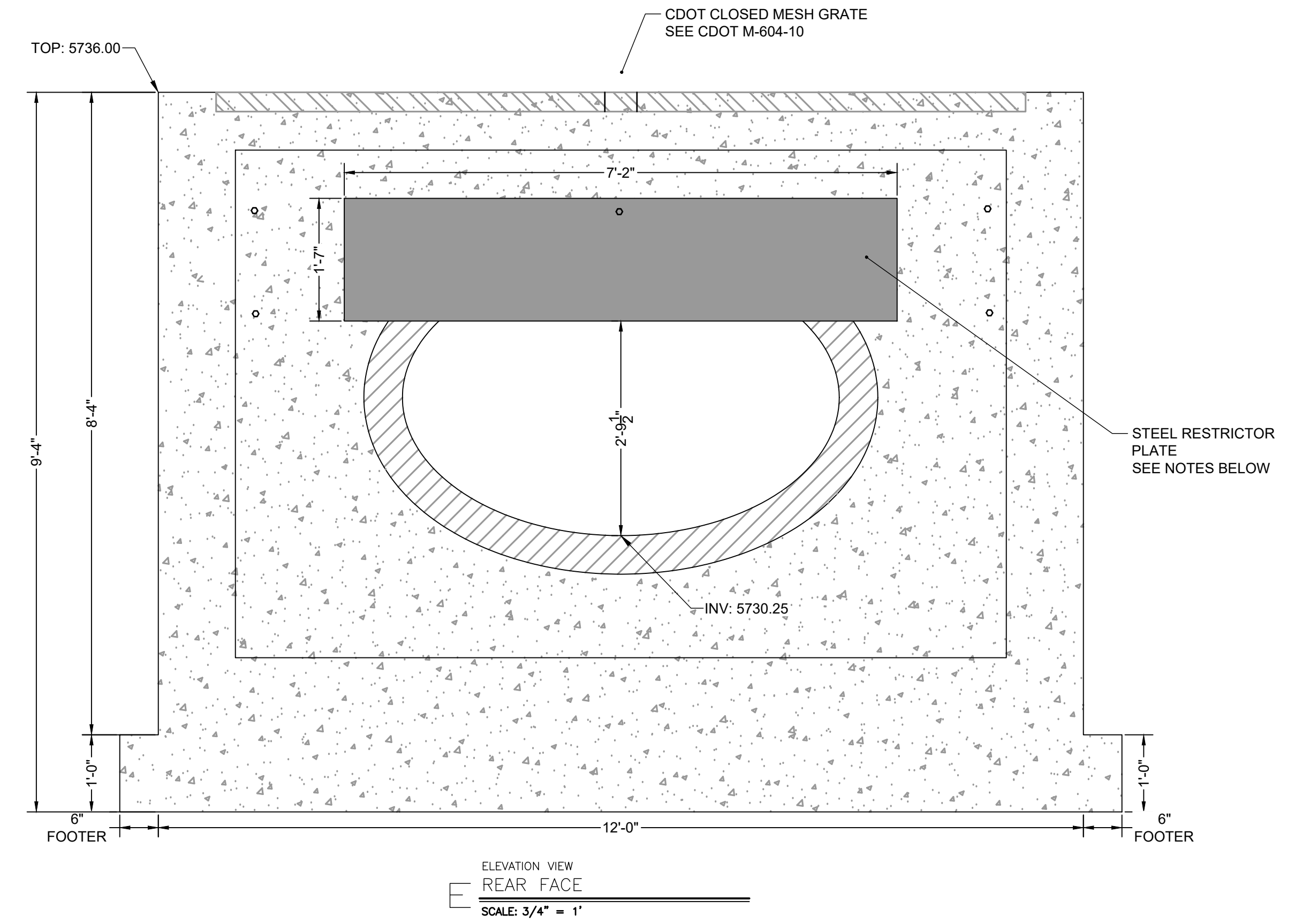
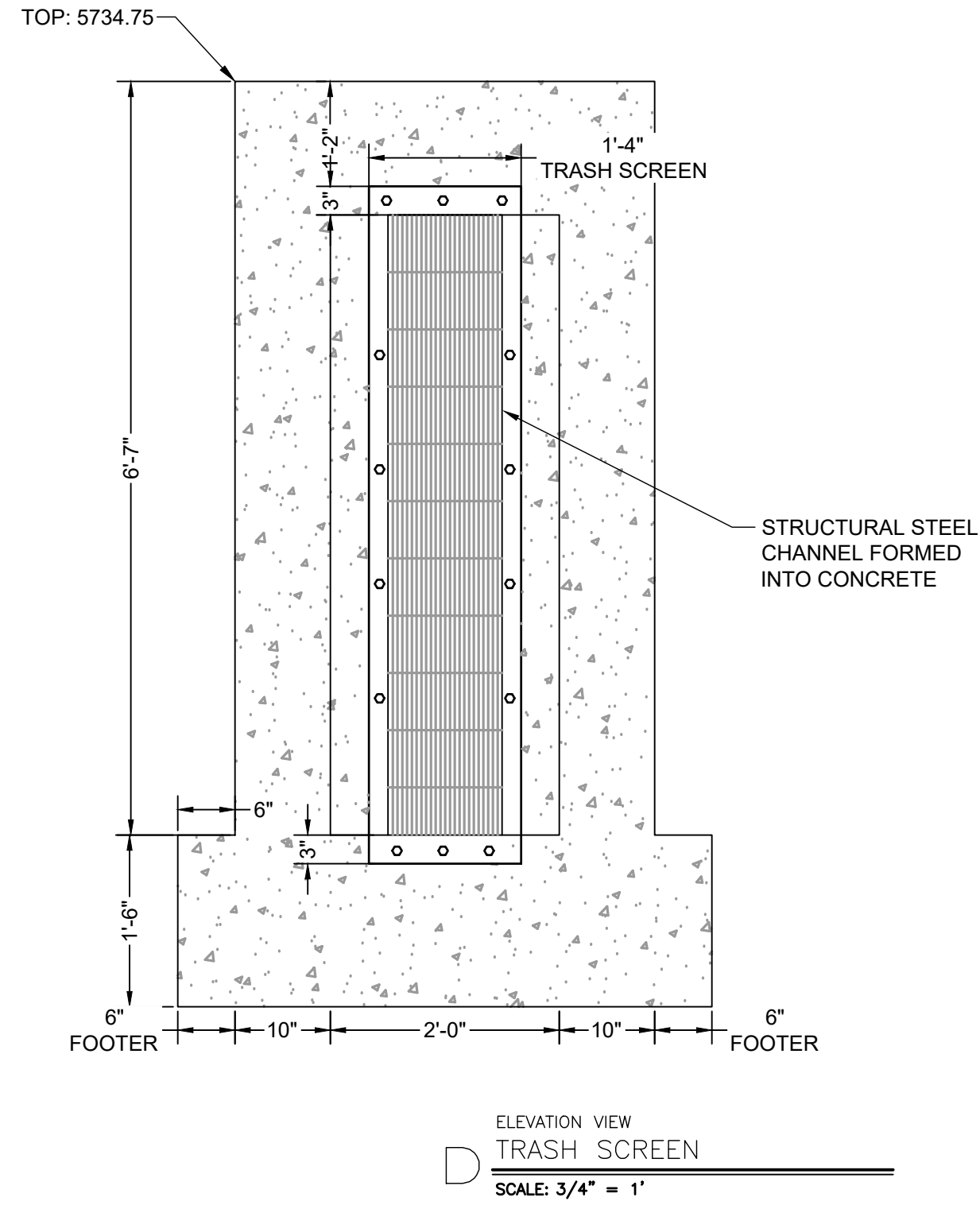
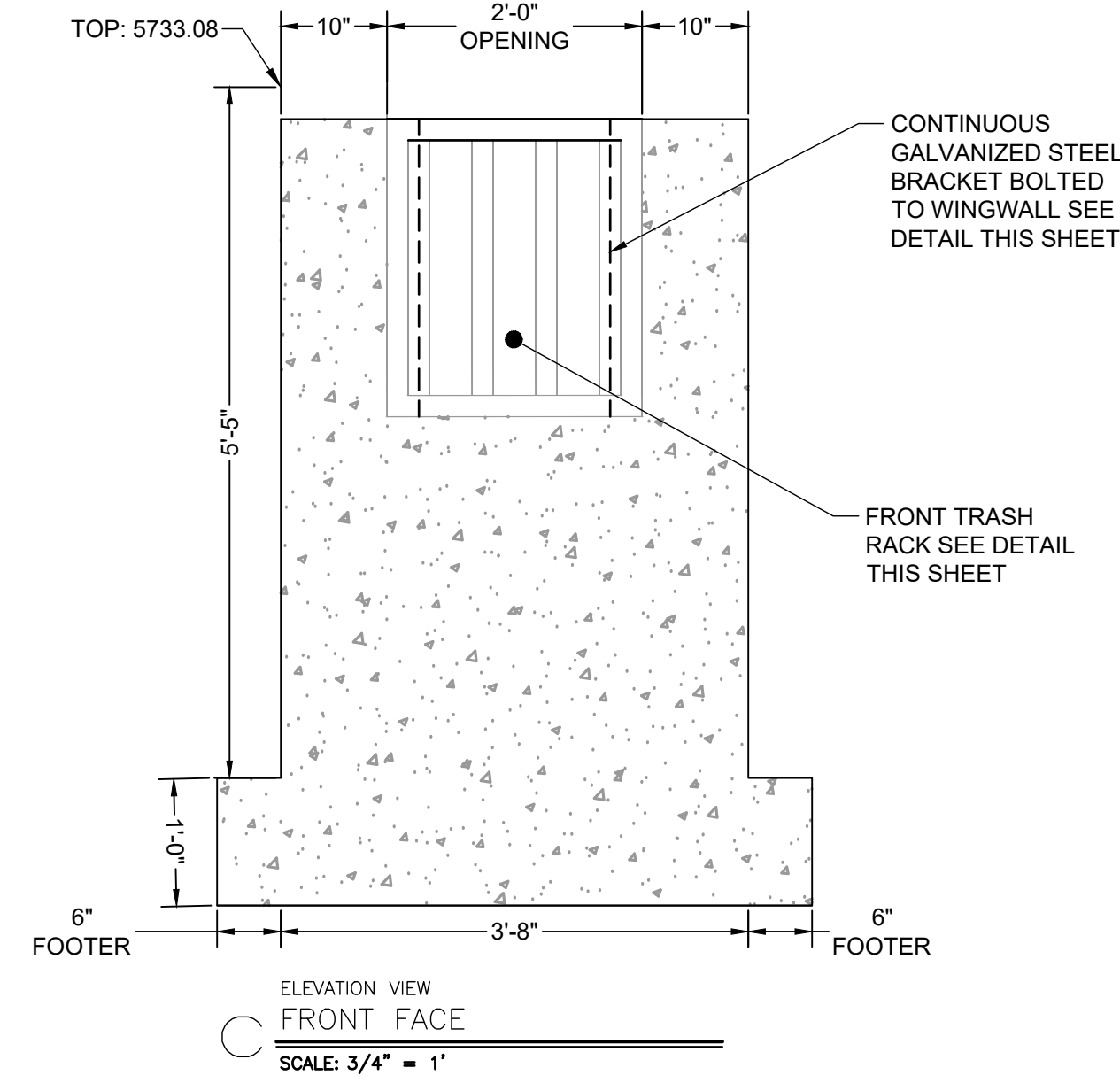
The DR Spreadsheet calls for an 18" pipe.

DRAWN BY: AXB	JOB DATE: 6/5/2023	BAR IS ONE INCH ON OFFICIAL DRAWINGS.
APPROVED: CPM	JOB NUMBER: 2202774	0" = 1"
CAD DATE: 8/25/2023		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD FILE: J:\2022\2202774\CAD\DWG\CID\North_Outlet_Structure_Details		

NO.	DATE	BY	REVISION DESCRIPTION

**HRGreen**  
HR GREEN - COLORADO SPRINGS  
1975 RESEARCH PARKWAY SUITE 230  
COLORADO SPRINGS, CO 80920  
PHONE: 719.394.2440  
FAX: 719.965.0044

MEADOW LAKE INDUSTRIAL FILING NO. 1  
MEADOWLAKE DEVELOPMENTS, LLC  
EL PASO COUNTY, CO



**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.

**TRASH RACK NOTES:**

1. TRASH RACKS SHALL BE 1 1/2" SCH. 40 STEEL PIPE, GALVANIZED, @ 6" CENTERS. SUPPORT BARS SHALL BE 1/2" x 2" STEEL RECTANGULAR BARS, GALVANIZED @ 36". ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE.
2. REMOVABLE TRASH RACK SECTIONS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED & LOCKABLE OR BOLTABLE ACCESS PANELS AS SHOWN ON THE PLANS.
3. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
4. STRUCTURAL STEEL FOR GRATES, ORIFICE PLATES, AND BARS SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS, SUBSECTION 712.06.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PLATES AND GRATING FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.

**RESTRICTOR PLATE NOTES:**

1. 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

NO.	DATE	BY	REVISION DESCRIPTION

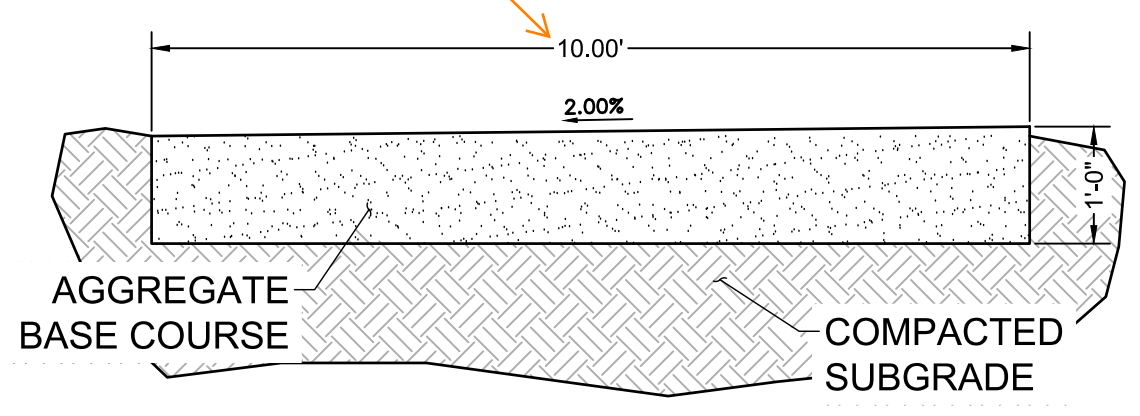


All general comments on Pond A are applicable to Pond B.

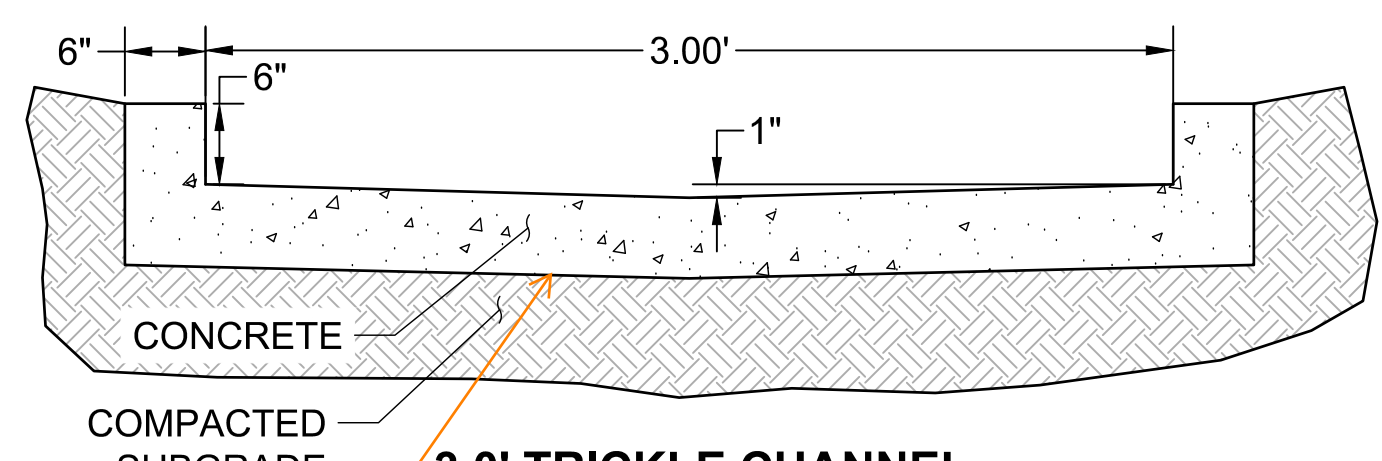
Show outfall contours - the outfall to this pond must be demonstrated to be suitable. If this outfall is just to land there is a high risk of erosion from the concentrated flows of the proposed pond.

Stabilized access ramp shall be a minimum of 15ft wide and no greater than 12% slope, in accordance with DCMv1, Chap 11.2.2. Show maintenance road on plan

Pond bottom should have a minimum slope of 3% to the trickle channel and micropool (USDCM Vol 3, detail T-5). Please adjust to minimize future maintenance needs.



**MAINTENANCE ROAD TYPICAL SECTION**  
SCALE: NTS



**3.0' TRICKLE CHANNEL**  
SCALE: NTS

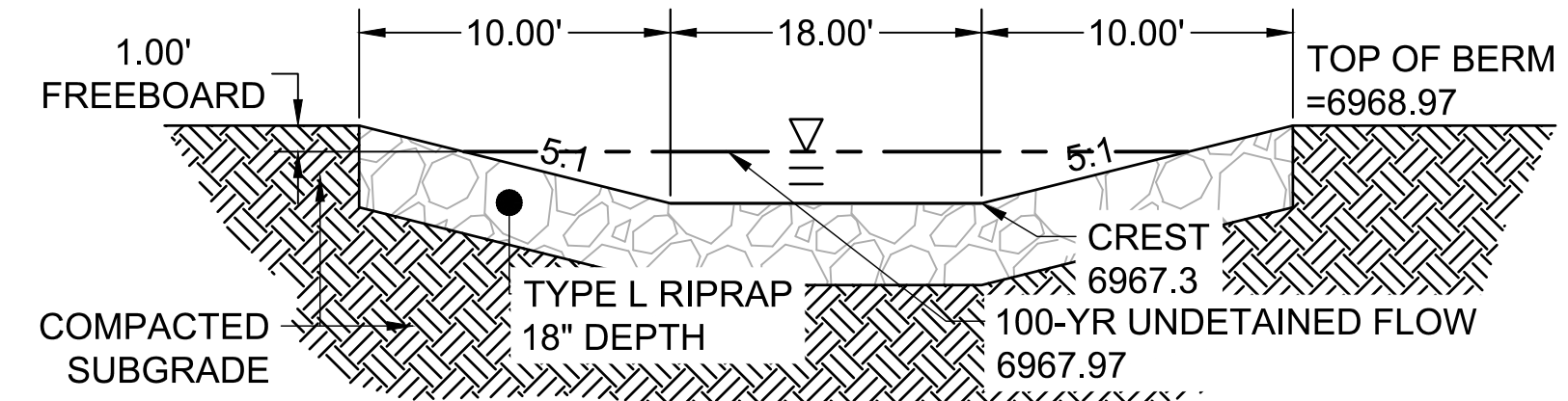
Consider having control joints every ~10ft.

**POND GRADING NOTES:**

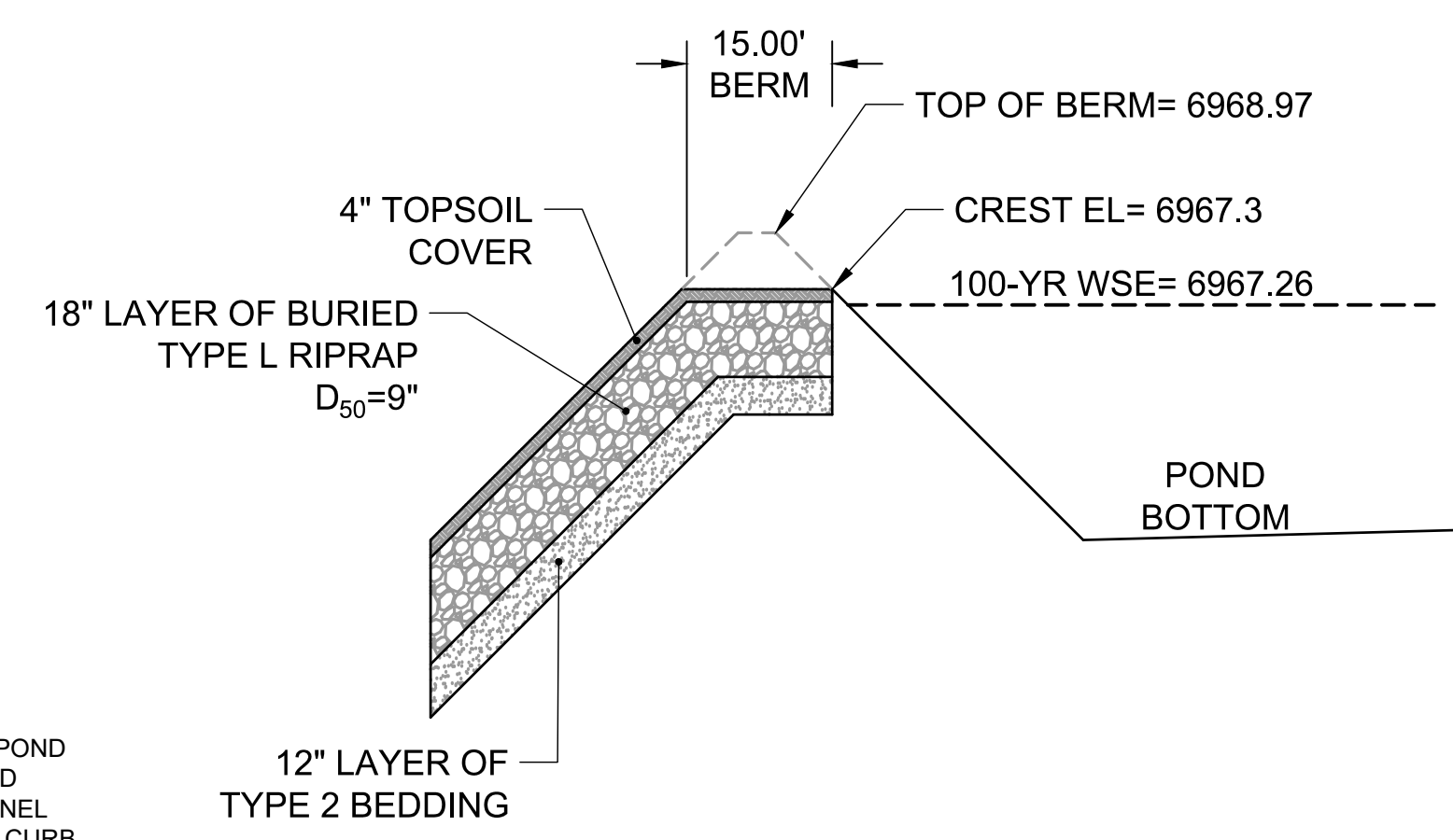
- TWO SIGNS OF MINIMUM 3 SQ. FT. AREA, SHALL BE INSTALLED AROUND THE POND PERIMETER. THE SIGNS WILL BE CONSTRUCTED OF A DURABLE MATERIAL SUCH AS METAL OR PLASTIC AND HAVE RED LETTERING ON A WHITE BACKGROUND STATING, "WARNING- THIS AREA IS A STORMWATER FACILITY AND IS SUBJECT TO PERIODIC FLOODING.
- SEE LANDSCAPE PLAN FOR RE-SEEDING AREAS ASSOCIATED WITH PERMANENT CONTROL MEASURE IMPROVEMENTS.
- 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.

**ABBREVIATIONS:**

- B.O.P - BOTTOM OF POND
- T.O.P - TOP OF POND
- T.C - TRICKLE CHANNEL
- T.B.C - TOP BACK OF CURB
- C.L - CENTERLINE
- E.O.G - EDGE OF GRADING
- T.O.W - TOP OF WALL
- B.O.W - BOTTOM OF WALL

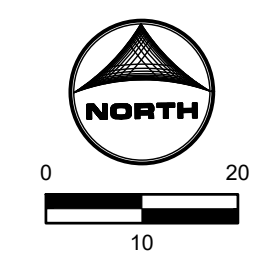
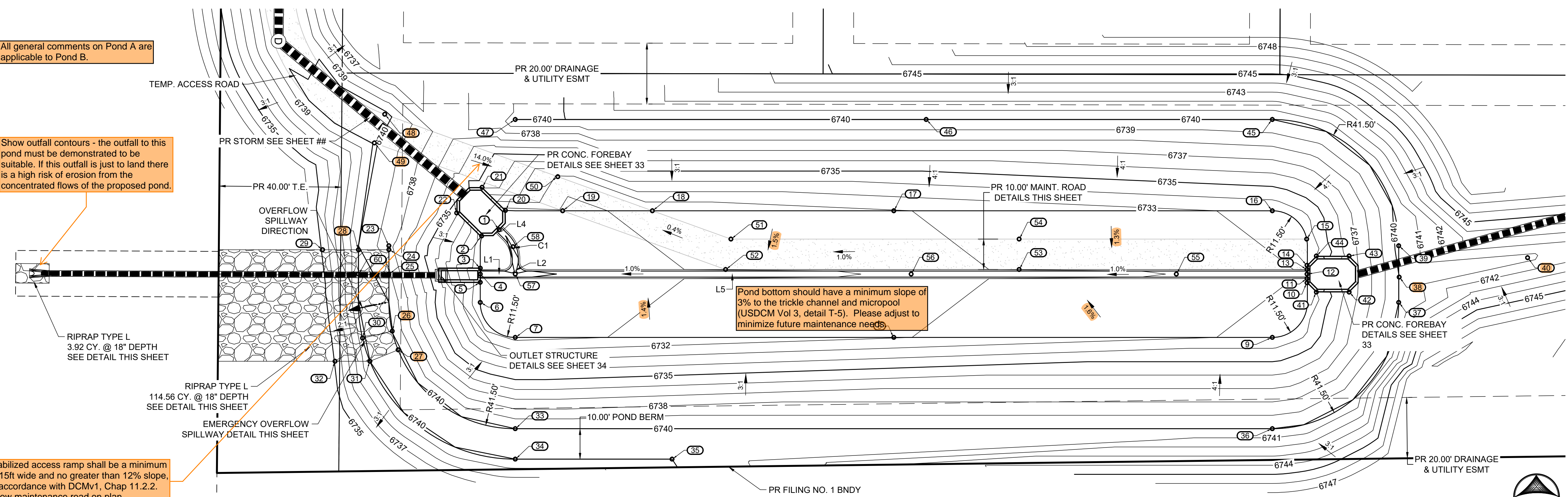


**SECTION VIEW - EMERGENCY OVERFLOW SPILLWAY**  
SCALE: NTS



**EMERGENCY OVERFLOW SPILLWAY - TYPICAL SECTION**  
SCALE: NTS

Verify all pond details are accurate to this project - Further review will be necessary with the next submittal once the elevations on all pond details are accurate.



Line Table			
Line #	Length	Direction	Centerline/Flowline
L1	11.50	N 90°00'00" E	Centerline
L2	5.16	S 0°00'00" E	Centerline
L4	3.30	S 45°00'00" E	Centerline
L5	259.99	N 90°00'00" E	Centerline

Curve Table				
Curve #	Length	Radius	Delta	Centerline/Flowline
C1	7.85	10.00	45°00'00"	Flowline

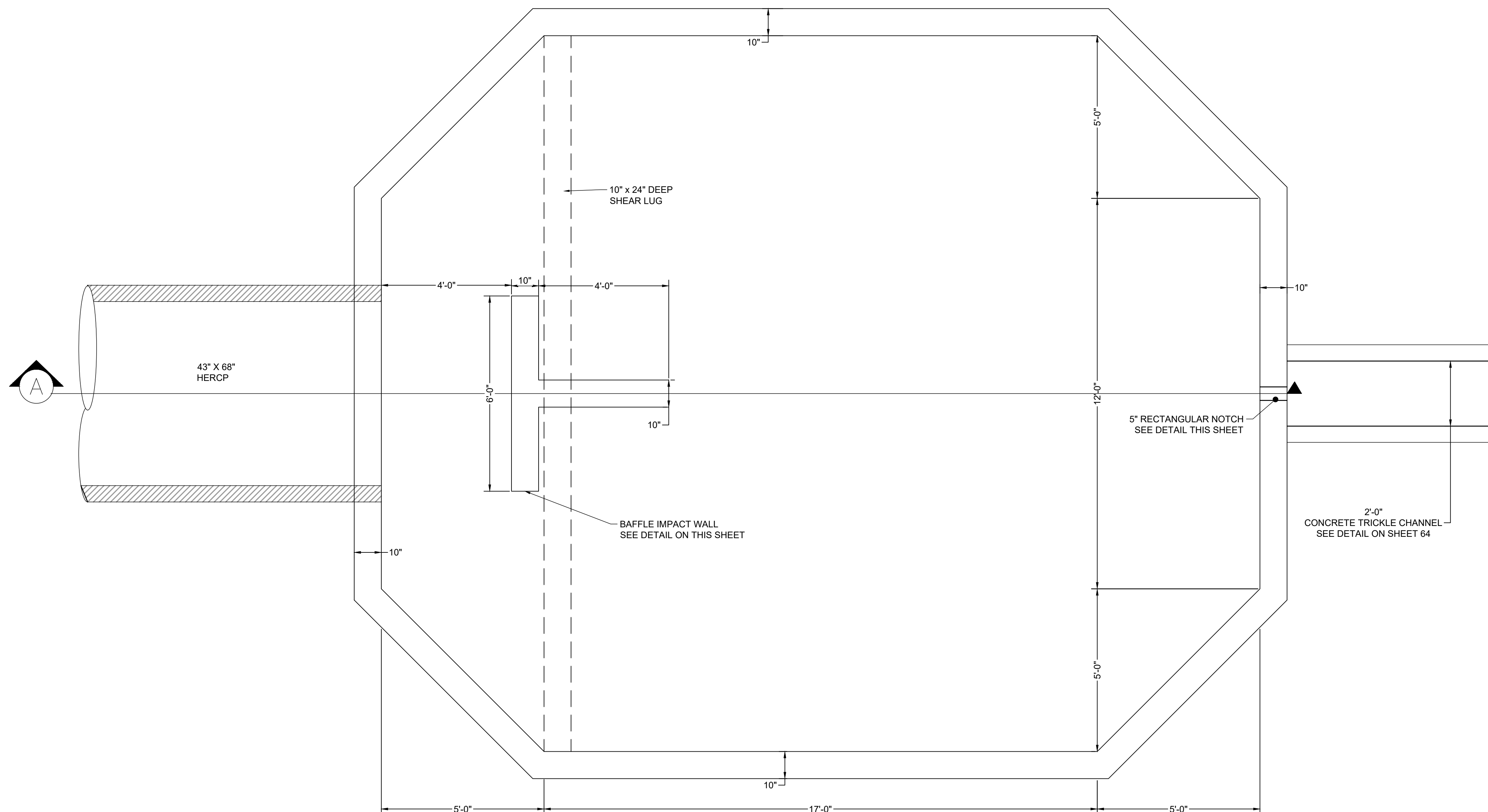
POINT TABLE			
No.	DESC.	NORTHING & EASTING	ELEV
1	FB NOTCH	N: 1401025.71 E: 3270147.06	6730.03
2	FB	N: 1401023.66 E: 3270141.28	6730.63
3	OUTLET STRUCT	N: 1401013.09 E: 3270140.83	6730.34
4	TC FLOWLINE	N: 1401011.14 E: 3270140.83	6729.75
5	OUTLET STRUCT	N: 1401008.43 E: 3270140.83	6730.30
6	BP	N: 1401001.83 E: 3270140.83	6730.12
7	BP	N: 1400990.33 E: 3270152.33	6730.70
8	BP	N: 1400990.33 E: 3270276.62	6731.94
9	BP	N: 1400990.33 E: 3270400.91	6733.18
10	FB	N: 1401008.25 E: 3270412.31	6733.04
11	FB	N: 1401009.64 E: 3270412.31	6733.04
12	FB NOTCH	N: 1401011.14 E: 3270412.31	6732.46
13	FB	N: 1401012.64 E: 3270412.31	6733.04
14	FB	N: 1401014.02 E: 3270412.31	6733.05
15	END MAINT. RD	N: 1401022.64 E: 3270412.20	6733.27
16	BP	N: 1401031.94 E: 3270400.91	6733.18
17	BP	N: 1401031.94 E: 3270276.62	6731.94
18	MAINT. RD/BP	N: 1401031.94 E: 3270197.34	6731.15
19	MAINT. RD/BP	N: 1401031.94 E: 3270167.87	6730.85
20	FB	N: 1401032.06 E: 3270149.09	6730.64

POINT TABLE			
No.	DESC.	NORTHING & EASTING	ELEV
21	FB	N: 1401039.67 E: 3270141.42	6734.10
22	FB	N: 1401031.22 E: 3270133.09	6734.11
23	TP	N: 1401020.44 E: 3270110.83	6738.36
24	SW	N: 1401019.14 E: 3270110.83	6738.48
25	SW CREST	N: 1401011.14 E: 3270110.83	6739.18
26	SW CREST	N: 1400992.39 E: 3270111.91	6740.00
27	SW	N: 1400986.25 E: 3270113.86	6740.00
28	SW	N: 1401019.14 E: 3270100.83	6740.00
29	RIPRAP	N: 1401019.14 E: 3270089.05	6735.17
30	SW CREST	N: 1400990.12 E: 3270102.18	6739.58
31	SW	N: 1400982.49 E: 3270104.60	6739.99
32	RIPRAP	N: 1400982.49 E: 3270093.13	6735.10
33	TP	N: 1400960.33 E: 3270152.33	6740.00
34	TOB	N: 1400950.33 E: 3270152.33	6740.00
35	TOB	N: 1400950.33 E: 3270203.80	6740.00
36	TP	N: 1400960.33 E: 3270400.91	6740.00
37	TP	N: 1401001.83 E: 3270442.41	6740.00
38	FL	N: 1401010.15 E: 3270442.56	6740.02
39	TP	N: 1401020.44 E: 3270442.41	6740.00
40	FL	N: 1401016.52 E: 3270484.73	6740.93

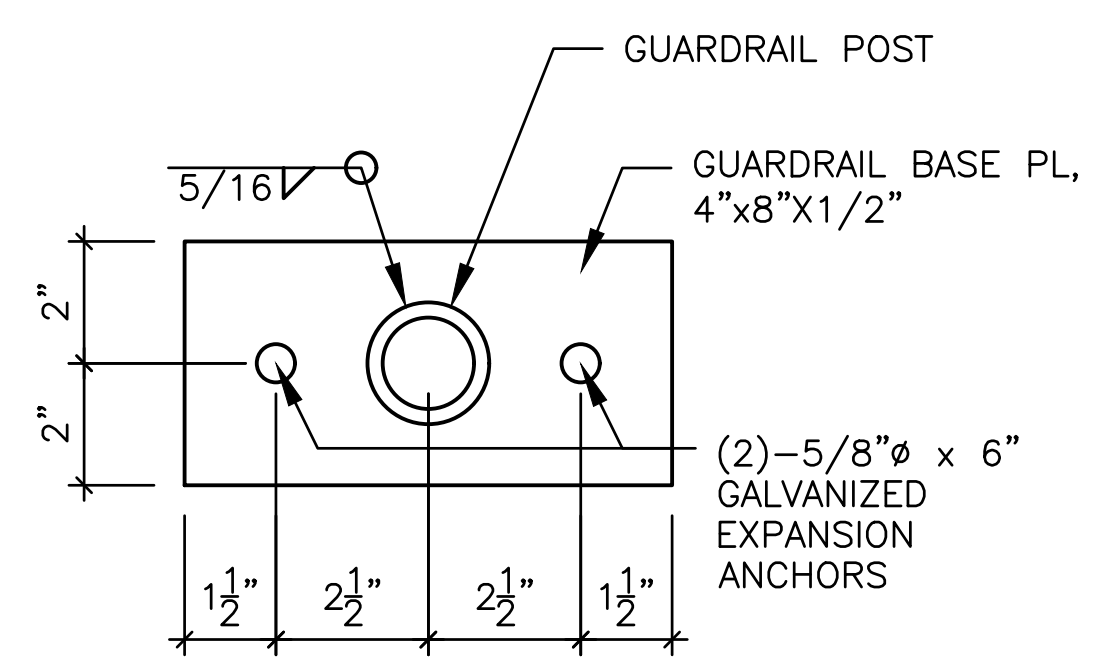
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No.	DESC.	NORTHING & EASTING	ELEV
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42	FB	N: 1401005.21 E: 3270426.13	6736.37
43	FB	N: 1401017.07 E: 3270426.13	6736.37
44	FB	N: 1401017.07 E: 3270415.36	6734.00
45	TP	N: 1401061.94 E: 3270400.91	6740.00
46	TP	N: 1401061.94 E: 3270287.25	6740.00
47	TP	N: 1401061.94 E: 3270152.33	6740.00
48	MAINT. RD	N: 1401063.65 E: 3270109.45	6740.35
49	MAINT. RD	N: 1401054.25 E: 3270106.05	6740.15
50	MAINT. RD	N: 1401043.15 E: 3270166.29	6731.89
51	MAINT. RD	N: 1401022.64 E: 3270223.13	6731.28
52	MAINT. RD	N: 1401012.64 E: 3270221.38	6731.14
53	MAINT. RD	N: 1401012.64 E: 3270317.77	6732.10
54	MAINT. RD	N: 1401022.64 E: 3270317.77	6732.23
55	TC FLOWLINE	N: 1401011.14 E: 3270369.40	6732.04
56	TC FLOWLINE	N: 1401011.14 E: 3270282.32	6731.16
57	TC FLOWLINE	N: 1401011.14 E: 3270152.33	6729.86
58	TC FLOWLINE	N: 1401020.13 E: 3270151.56	6730.02
60	SW CREST	N: 1401011.14 E: 3270100.83	6740.00

NO.	DATE	BY	REVISION DESCRIPTION

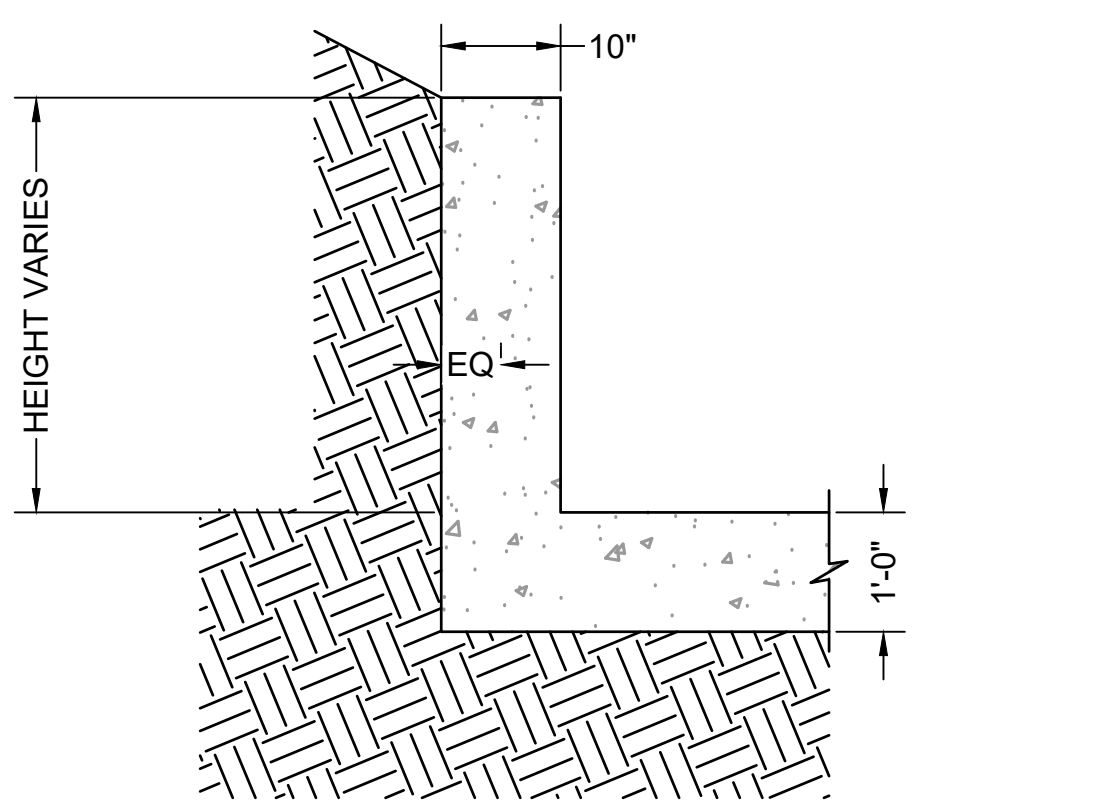




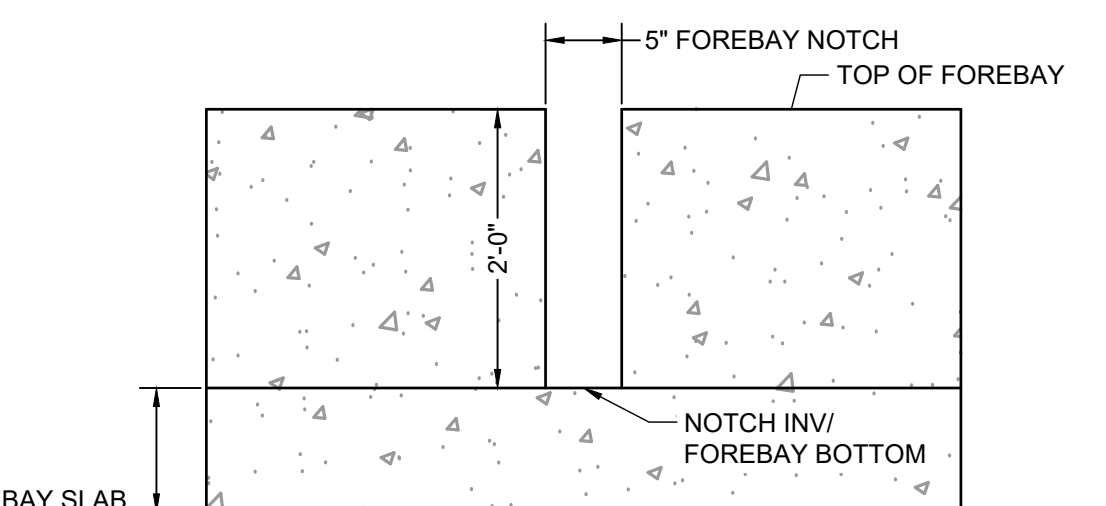
PLAN VIEW  
FOREBAY #1  
SCALE: 1"=2'



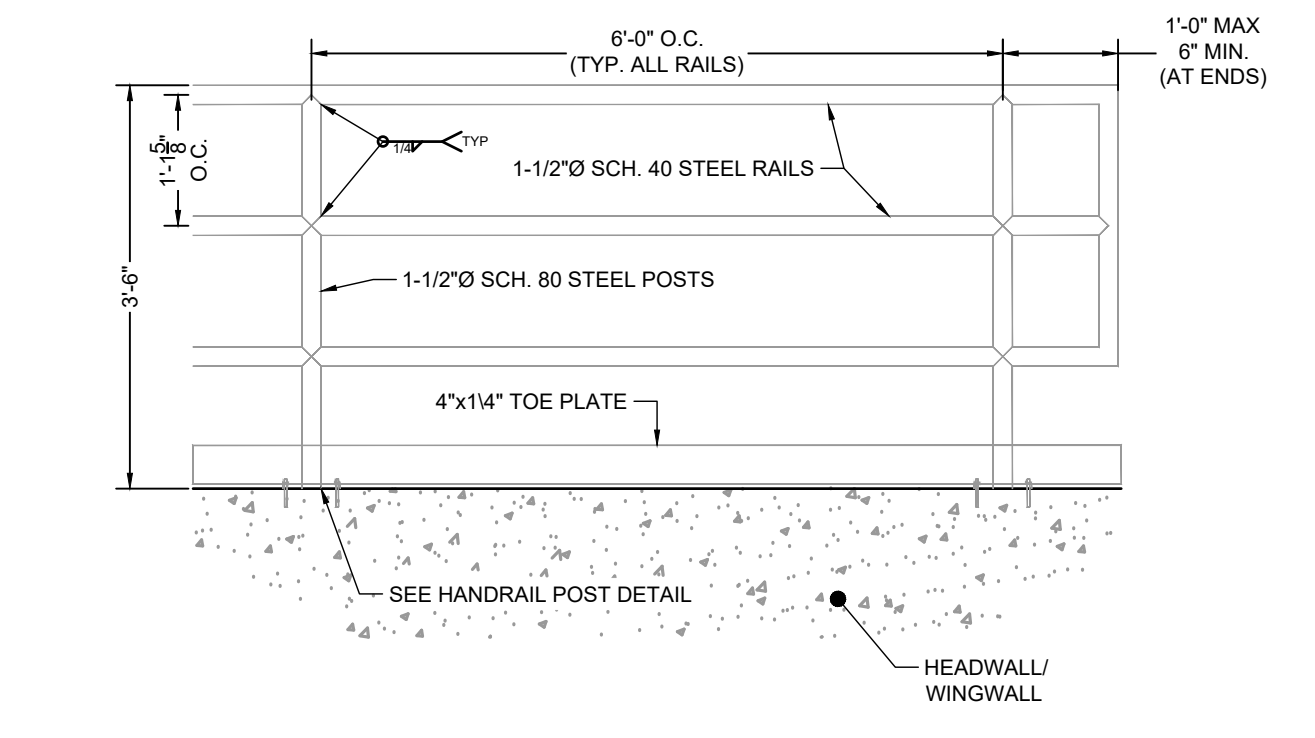
ELEVATION VIEW  
HANDRAIL POST DETAIL  
SCALE: NTS



ELEVATION VIEW  
FOREBAY WINGWALL REINFORCEMENT DETAIL  
SCALE: NTS



ELEVATION VIEW  
FOREBAY NOTCH DETAIL  
SCALE: NTS

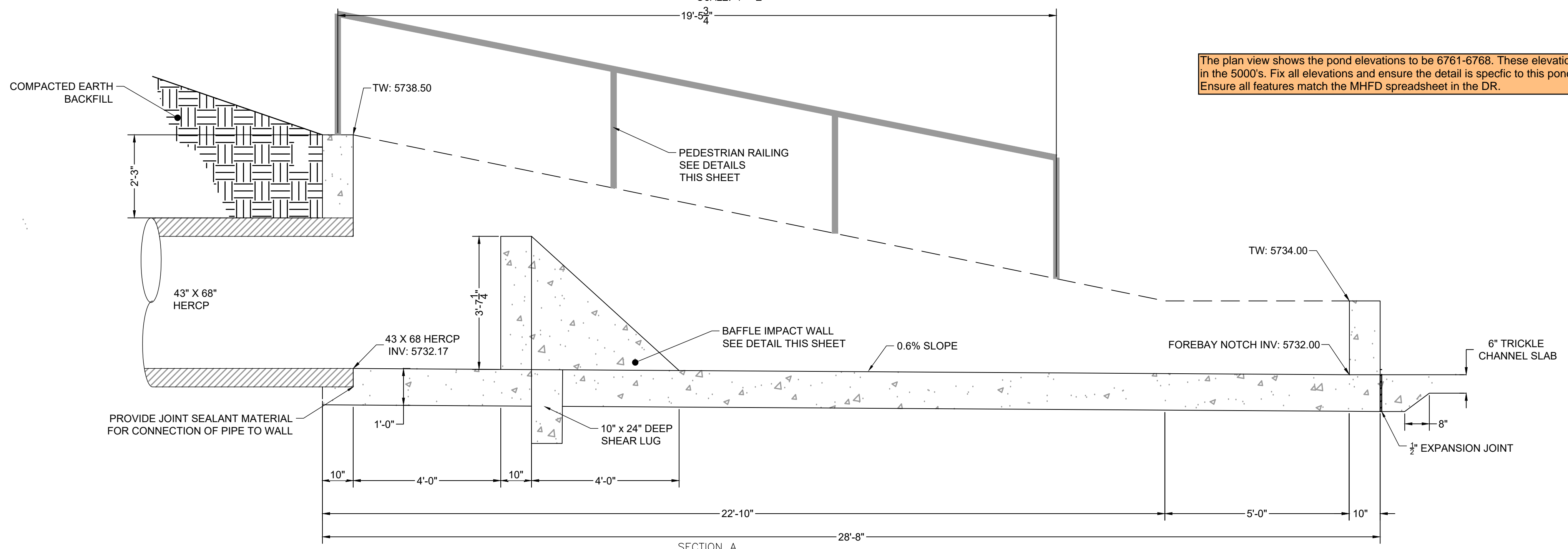


ELEVATION VIEW  
HANDRAIL POST DETAIL  
SCALE: NTS

**FOREBAY NOTES:**

- SEE SHEET 65 FOR STRUCTURAL NOTES AND DETAILS.
- PEDESTRIAN RAILING IS NOT SHOWN IN PLAN VIEW DETAILS. SEE SECTION A FOR RAILING LOCATION.

The plan view shows the pond elevations to be 6761-6768. These elevations are all in the 5000's. Fix all elevations and ensure the detail is specific to this pond design. Ensure all features match the MHFD spreadsheet in the DR.



SECTION A  
FOREBAY #1  
SCALE: 1"=2'

DRAWN BY: AXB	JOB DATE: 6/5/2023	BAR IS ONE INCH ON OFFICIAL DRAWINGS.
APPROVED: CPM	JOB NUMBER: 2202774	0" = 1"
CAD DATE: 8/25/2023		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD FILE: J:\2022\2202774\CAD\DWG\CID\South_Forebay_Details		

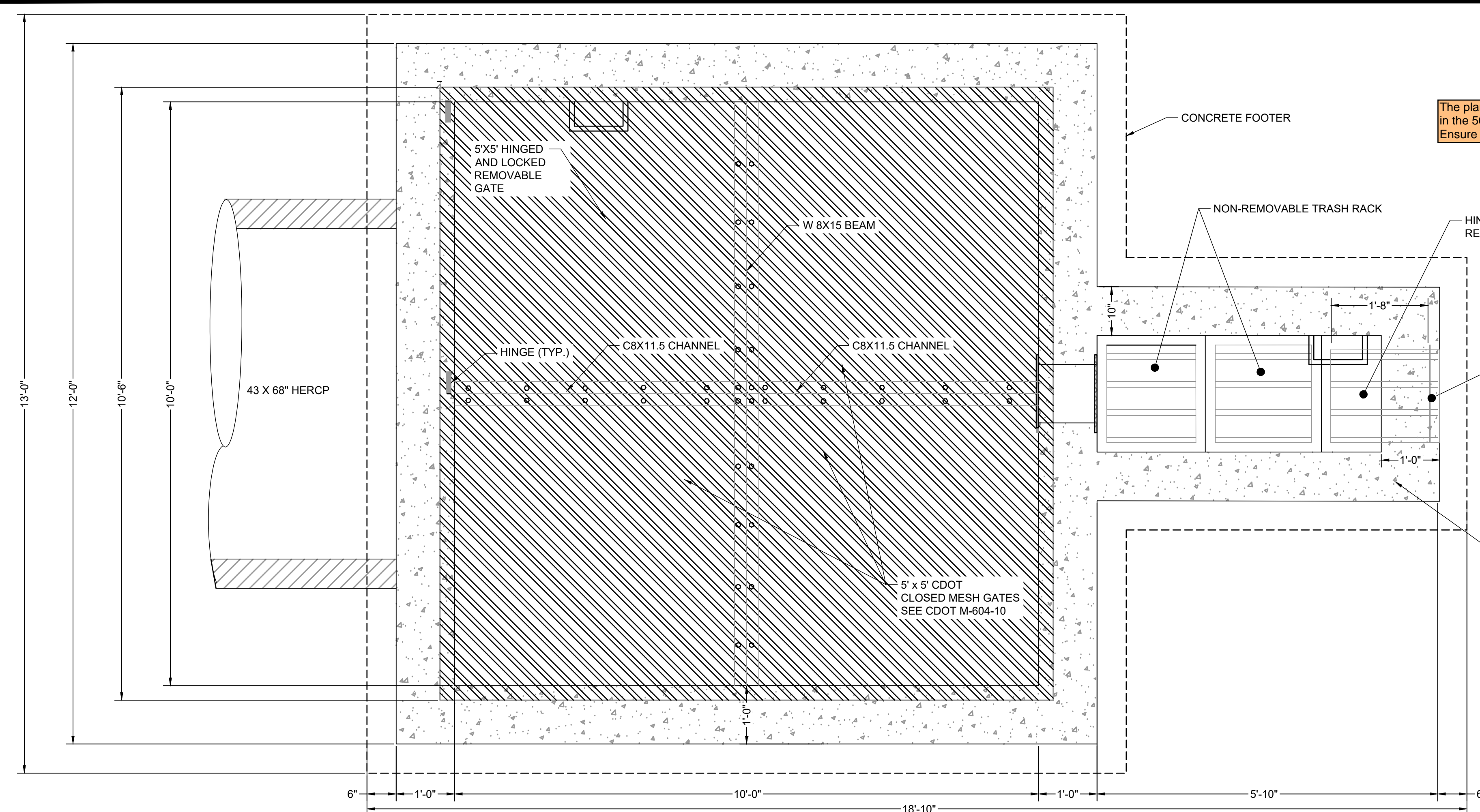
NO.	DATE	BY	REVISION DESCRIPTION

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

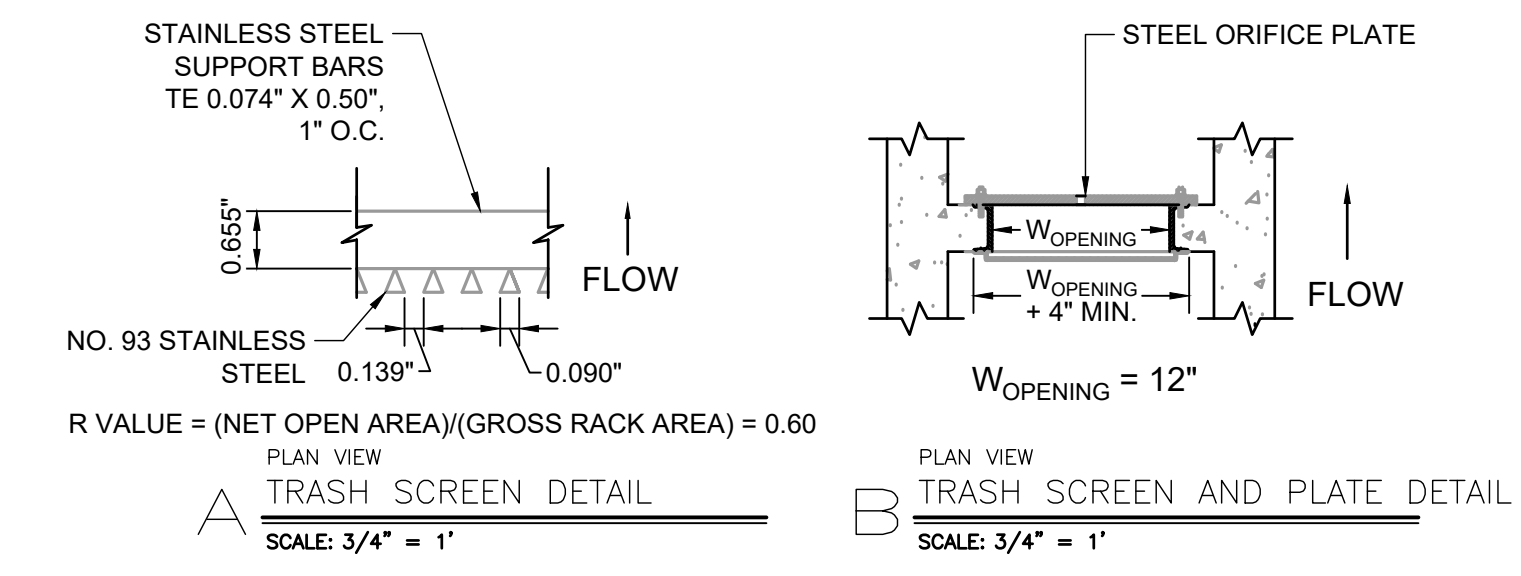
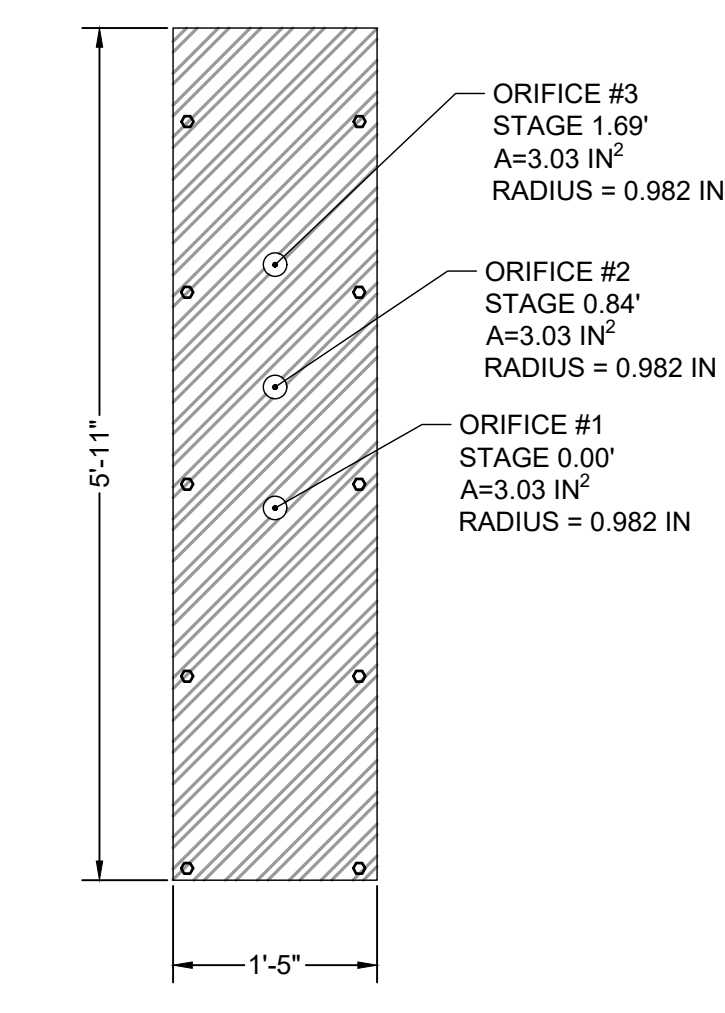
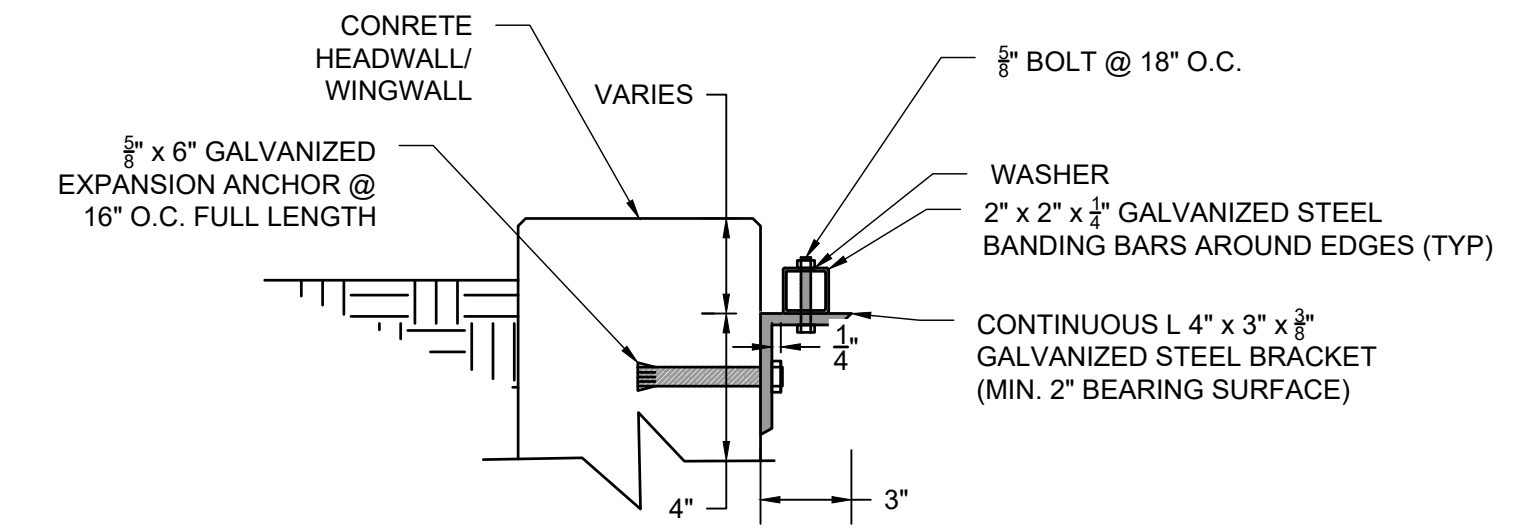
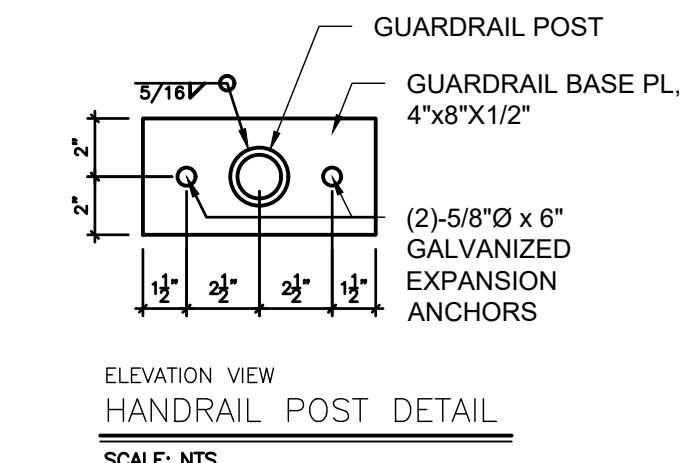
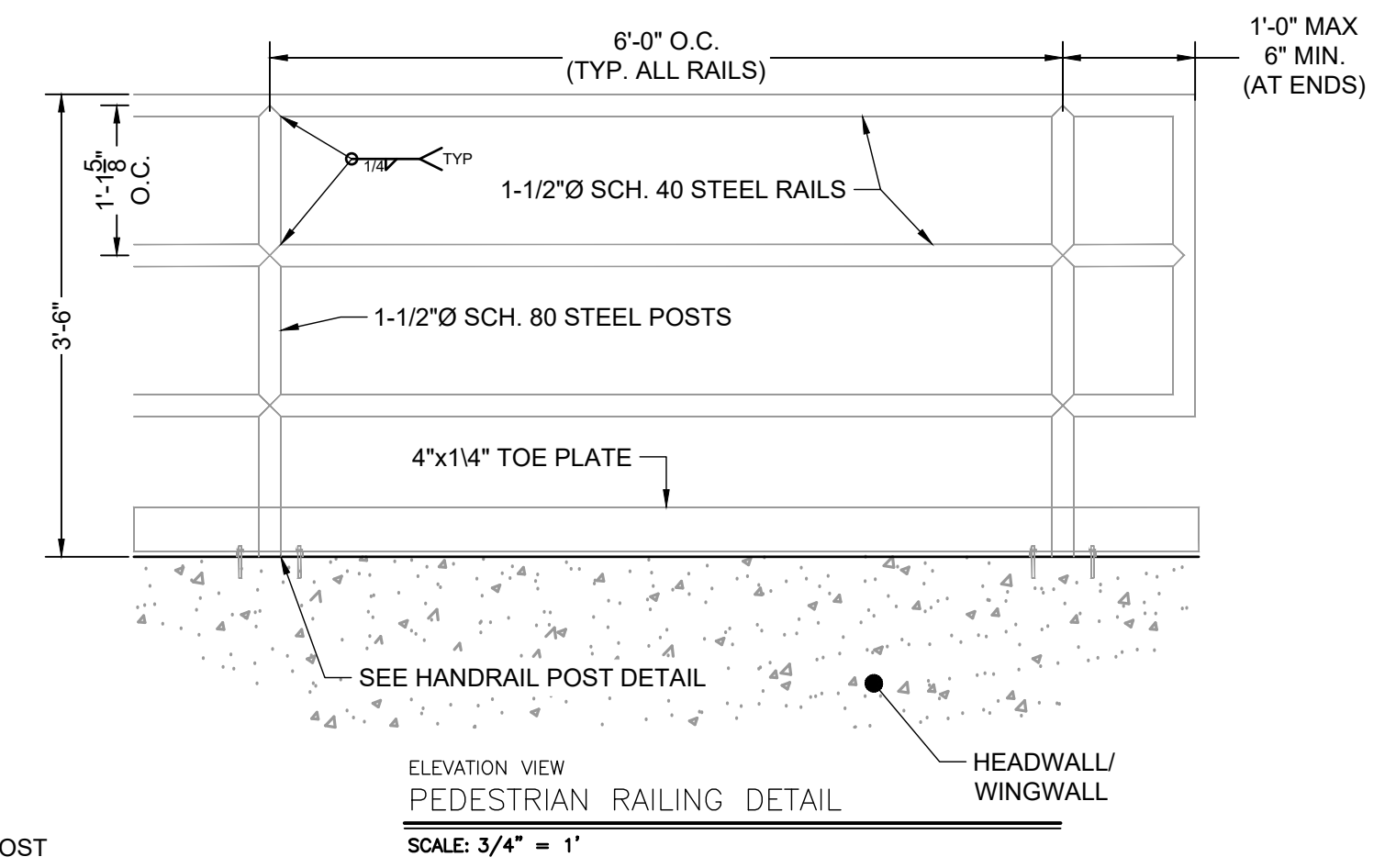
**MEADOW LAKE INDUSTRIAL FILING NO. 1**  
**MEADOWLAKE DEVELOPMENTS, LLC**  
 EL PASO COUNTY, CO

CONSTRUCTION DOCUMENTS  
 POND B - FOREBAY DETAILS

SHEET  
**FB**  
**33**



The plan view shows the pond elevations to be 6761-6768. These elevations are all in the 5000's. Fix all elevations and ensure the detail is specific to this pond design. Ensure all features match the MHFD spreadsheet in the DR.



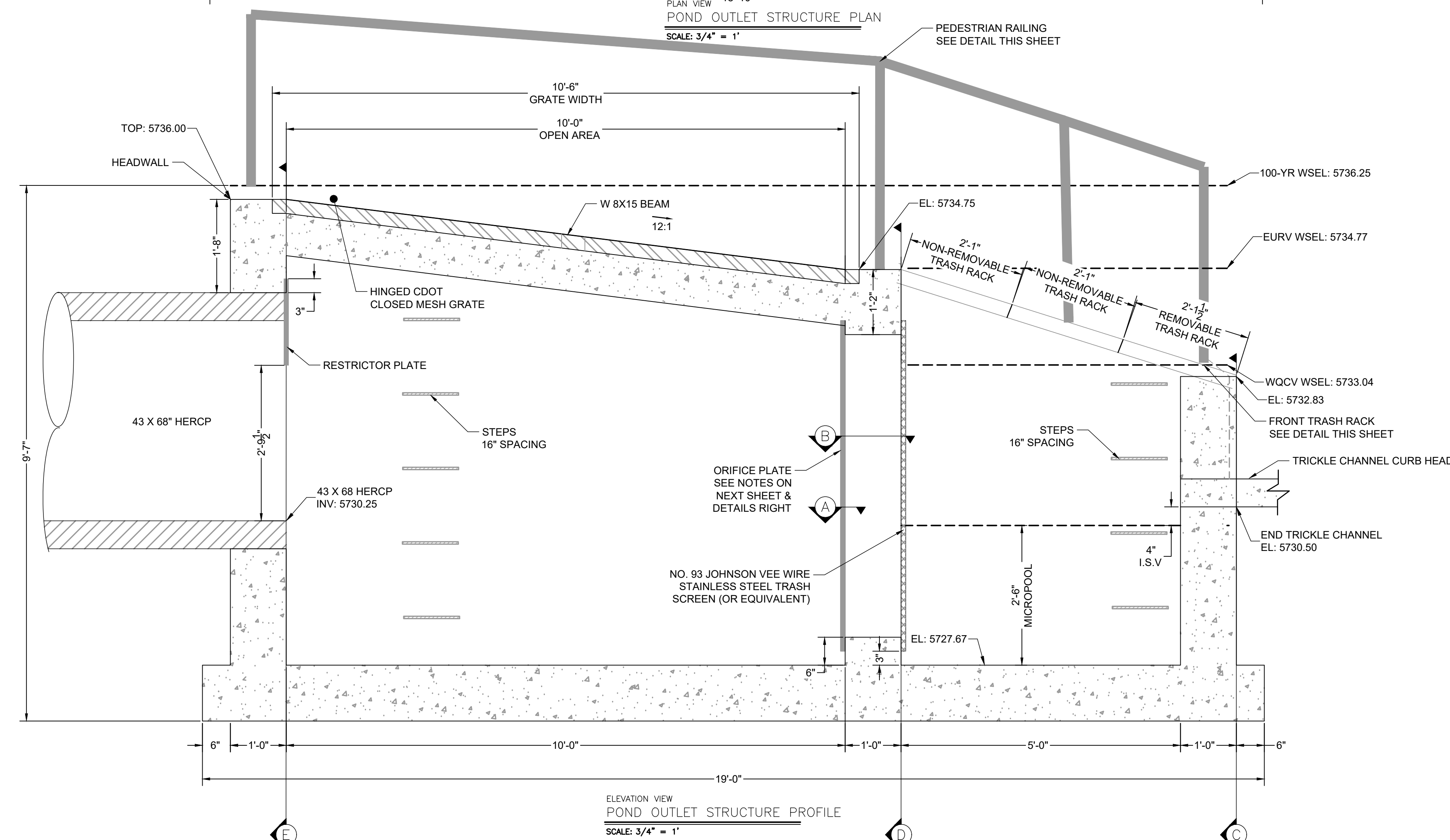
ORIFICE PLATE NOTES:

1. PLATE TO BE 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

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

**POND WARNING SIGN**  
SCALE: NTS  
MINIMUM SIGN AREA = 3 FT<sup>2</sup>  
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



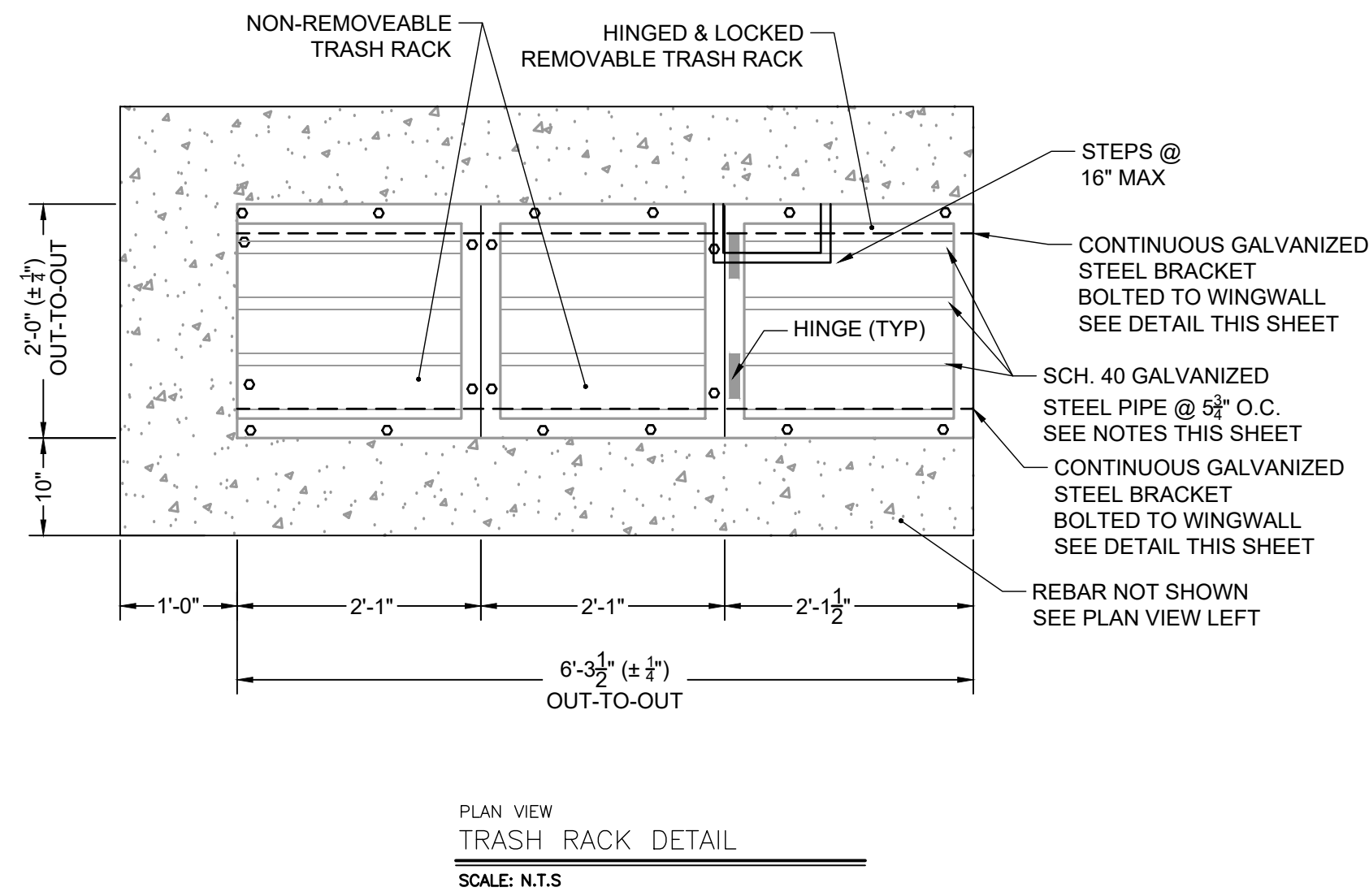
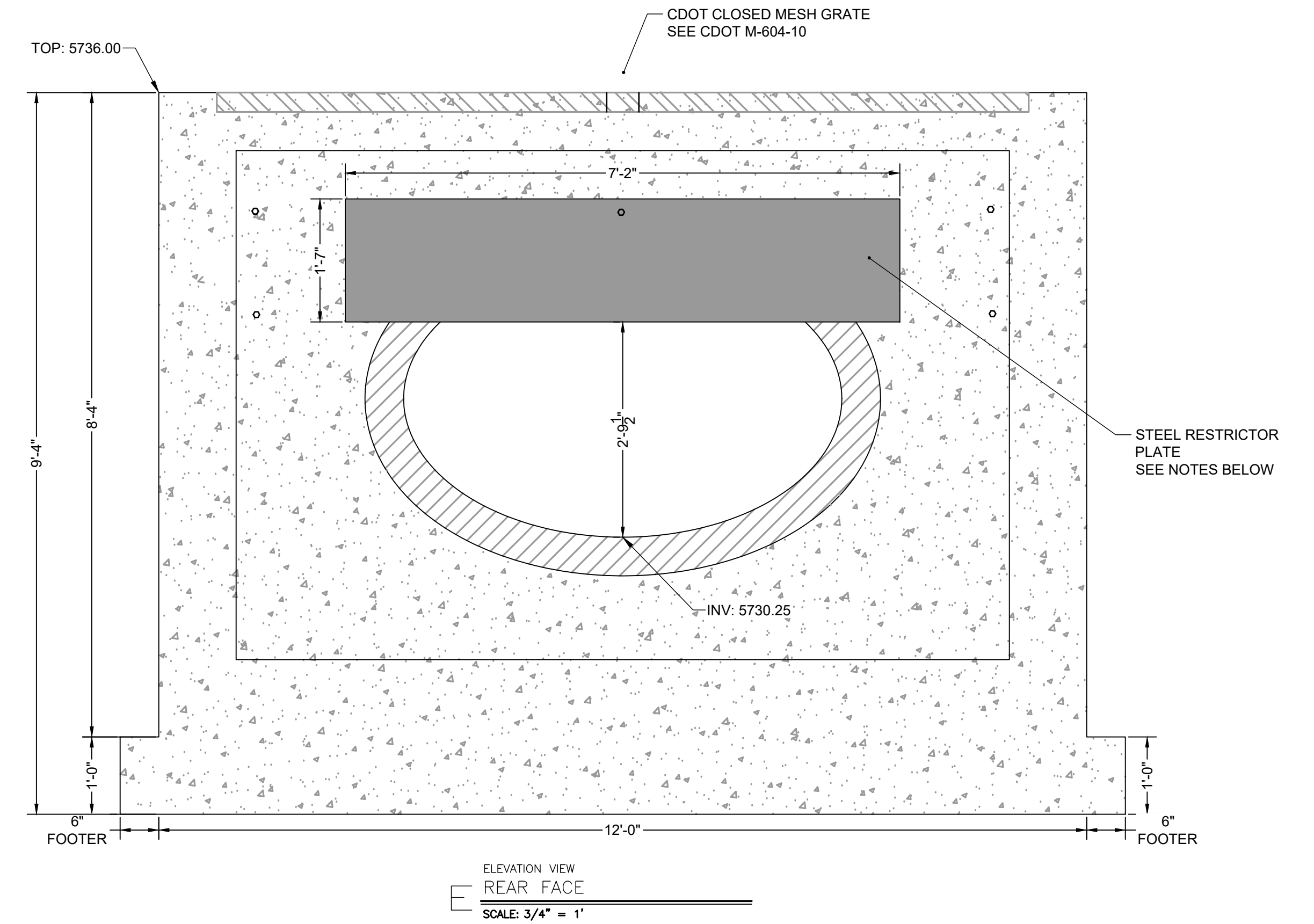
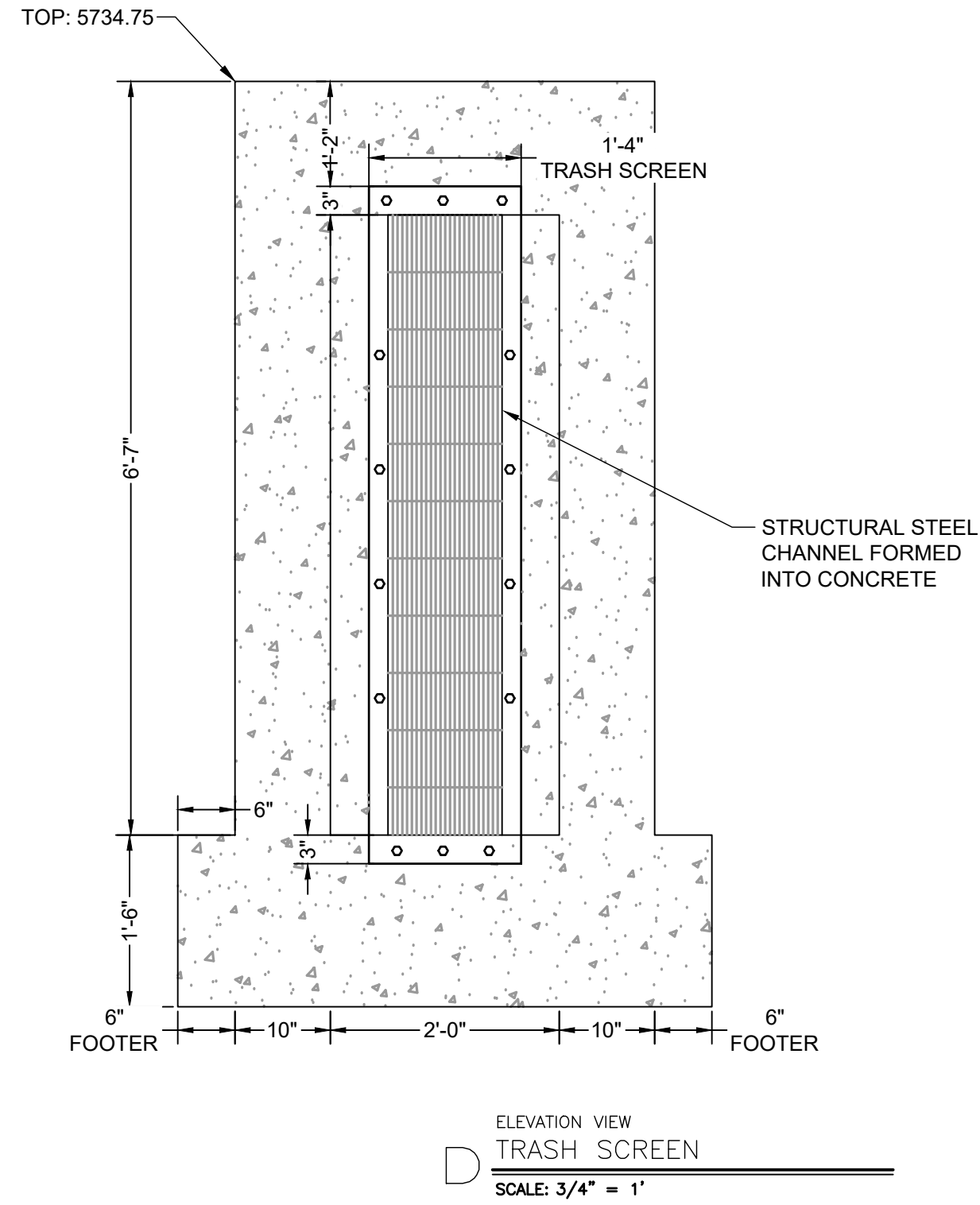
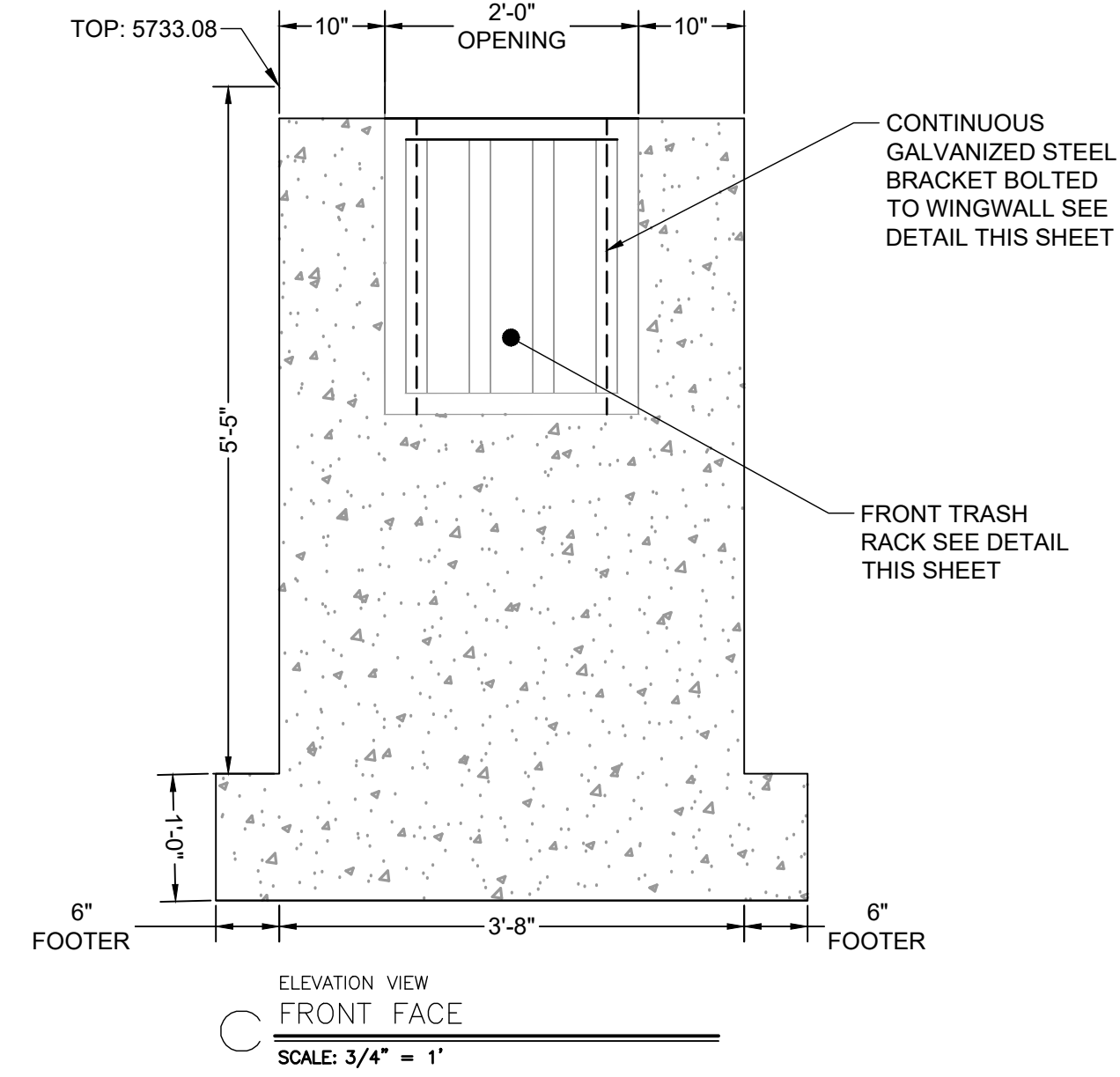
DRAWN BY: AXB	JOB DATE: 6/5/2023	BAR IS ONE INCH ON OFFICIAL DRAWINGS.
APPROVED: CPM	JOB NUMBER: 2202774	0" = 1"
CAD DATE: 8/25/2023		IF NOT ONE INCH, ADJUST SCALE ACCORDINGLY.
CAD FILE: J:\2022\2202774\CAD\DWG\CIC\South_Outlet_Structure_Details		

NO.	DATE	BY	REVISION DESCRIPTION

HRGreen

HR GREEN - COLORADO SPRINGS  
1975 RESEARCH PARKWAY SUITE 230  
COLORADO SPRINGS, CO 80920  
PHONE: 719.384.2440  
FAX: 719.965.0044

MEADOW LAKE INDUSTRIAL FILING NO. 1  
MEADOWLAKE DEVELOPMENTS, LLC  
EL PASO COUNTY, CO



**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.

**TRASH RACK NOTES:**

1. TRASH RACKS SHALL BE 1 1/2" SCH. 40 STEEL PIPE, GALVANIZED, @ 6" CENTERS. SUPPORT BARS SHALL BE 1/2" x 2" STEEL RECTANGULAR BARS, GALVANIZED @ 36". ALL TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE.
2. REMOVABLE TRASH RACK SECTIONS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED & LOCKABLE OR BOLTABLE ACCESS PANELS AS SHOWN ON THE PLANS.
3. STEEL TRASH RACKS SHALL BE HOT DIP GALVANIZED AND MAY BE HOT POWDER COATED AFTER GALVANIZING.
4. STRUCTURAL STEEL FOR GRATES, ORIFICE PLATES, AND BARS SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS, SUBSECTION 712.06.
5. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL PLATES AND GRATING FOR ENGINEER'S APPROVAL PRIOR TO CONSTRUCTION.

**RESTRICTOR PLATE NOTES:**

1. 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

NO.	DATE	BY	REVISION DESCRIPTION

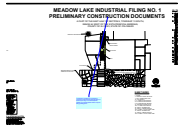


# V1\_Grading & Erosion Control Plan.pdf Markup Summary 10-24-2023

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## Daniel Torres (1)

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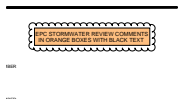
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**Subject:** Callout  
**Page Label:** [1] 1 COVER  
**Date:** 10/24/2023 5:01:38 PM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Construction drawings are reviewed in conjunction with the final drainage report at the final plat stage. If Predevelopment grading is proposed please submit only the early grading plans.

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## Mikayla Hartford (57)

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**Author:** Mikayla Hartford  
**Subject:** Stamp - Stormwater Comment Legend  
**Page Label:** [1] 1 COVER  
**Date:** 10/17/2023 12:07:26 PM  
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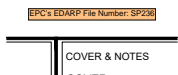
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**Subject:** SW - Textbox  
**Page Label:** [1] 1 COVER  
**Date:** 10/17/2023 12:23:17 PM  
**Status:**  
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Provide Standard Notes for EPC Grading and Erosion Control Plans - On cover sheet or on GEC Plans.



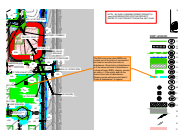
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**Space:**

Use the owner/developer' statement for GEC Plans within CDs. See GEC Checklist Comments



**Author:** Mikayla Hartford  
**Subject:** SW - Textbox  
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**Layer:**  
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EPC's EDARP File Number: SP236



**Author:** Mikayla Hartford  
**Subject:** SW - Textbox with Arrow  
**Page Label:** [3] 3 GEC - Interim-Final Plan  
**Date:** 10/17/2023 2:19:55 PM  
**Status:**  
**Color:** ■  
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**Space:**

The SSA and some other BMPs are located out of the limits of construction but need to be within the limits of disturbance. Show limits of disturbance or if the same as limits of disturbance - include all temp BMPs, staging, access, etc within it. If the white area on the plans is the limits of disturbance - Please provide white box and label it "limits of disturbance" in legend.



**Author:** Mikayla Hartford  
**Subject:** SW - Textbox with Arrow  
**Page Label:** [3] 3 GEC - Interim-Final Plan  
**Date:** 10/17/2023 11:27:11 AM  
**Status:**  
**Color:** ■  
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Provide flow arrows within the lots as well as within the grading areas.



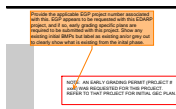
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**Page Label:** [3] 3 GEC - Interim-Final Plan  
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**Layer:**  
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Provide County maintenance access easement to both ponds



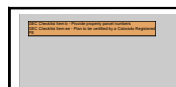
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Provide County maintenance access easement to both ponds



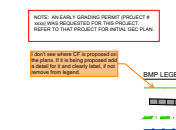
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**Page Label:** [3] 3 GEC - Interim-Final Plan  
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**Space:**

Provide the applicable EGP project number associated with this. EGP appears to be requested with this EDARP project, and if so, early grading specific plans are required to be submitted with this project. Show any existing initial BMPs but label as existing an/or grey out to clearly show what is existing from the initial phase.



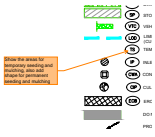
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GEC Checklist Item b - Provide property parcel numbers  
 GEC Checklist Item ee - Plan to be certified by a Colorado Registered PE



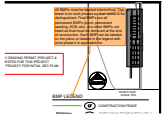
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I don't see where CF is proposed on the plans. If it is being proposed add a detail for it and clearly label, if not remove from legend.



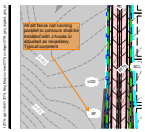
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**Subject:** SW - Textbox with Arrow  
**Page Label:** [3] 3 GEC - Interim-Final Plan  
**Date:** 10/17/2023 2:20:25 PM  
**Status:**  
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**Layer:**  
**Space:**

Show the areas for temporary seeding and mulching, also add shape for permanent seeding and mulching



**Author:** Mikayla Hartford  
**Subject:** SW - Textbox with Arrow  
**Page Label:** [3] 3 GEC - Interim-Final Plan  
**Date:** 10/17/2023 2:22:14 PM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

All BMPs must be labeled interim/final. The sheet is for both phases so that needs to be distinguished. Final BMPs are all permanent BMPs (pond, permanent seeding, ECB, etc). Any other BMPs not listed as final must be removed at the end of construction. Each BMP can be labeled on the plans or labeled in the legend with what phase it is applicable for.



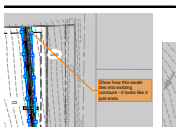
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**Subject:** SW - Textbox with Arrow  
**Page Label:** [3] 3 GEC - Interim-Final Plan  
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**Space:**

All silt fence not running parallel to contours shall be installed with J-hooks or adjusted as necessary. Typical comment



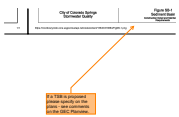
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**Page Label:** [3] 3 GEC - Interim-Final Plan  
**Date:** 10/17/2023 2:29:53 PM  
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**Color:** ■  
**Layer:**  
**Space:**

A TSB will be required during construction since the site disturbs greater than 1 acre. If you are proposing to use the proposed ponds as a TSB: TSB: This area is treating a lot of disturbance during construction and will retain water prior to installing the outlet structure. Recommend using as a temporary sediment basin before converting it into an EDB in order to maintain compliance with CO water rights. (provide TSB details - size, riser pipe details, location of outlet etc.)



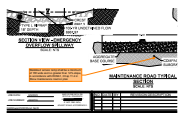
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**Subject:** SW - Textbox with Arrow  
**Page Label:** [3] 3 GEC - Interim-Final Plan  
**Date:** 10/18/2023 8:39:13 AM  
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**Space:**

Show how this swale ties into existing contours - it looks like it just ends.



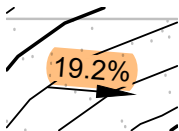
**Author:** Mikayla Hartford  
**Subject:** SW - Textbox with Arrow  
**Page Label:** [5] 5 GEC Details  
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**Space:**

If a TSB is proposed please specify on the plans - see comments on the GEC Planview.



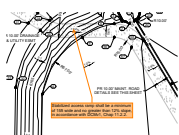
**Author:** Mikayla Hartford  
**Subject:** SW - Textbox with Arrow  
**Page Label:** [28] 28 Pond A - Grading Plan  
**Date:** 10/17/2023 5:04:58 PM  
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**Space:**

Stabilized access ramp shall be a minimum of 15ft wide and no greater than 12% slope, in accordance with DCMv1, Chap 11.2.2. Show maintenance road on plan



**Author:** Mikayla Hartford  
**Subject:** SW - Highlight  
**Page Label:** [28] 28 Pond A - Grading Plan  
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19.2%



**Author:** Mikayla Hartford  
**Subject:** SW - Textbox with Arrow  
**Page Label:** [28] 28 Pond A - Grading Plan  
**Date:** 10/17/2023 5:05:36 PM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Stabilized access ramp shall be a minimum of 15ft wide and no greater than 12% slope, in accordance with DCMv1, Chap 11.2.2.



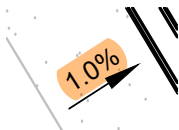
**Author:** Mikayla Hartford  
**Subject:** SW - Highlight  
**Page Label:** [28] 28 Pond A - Grading Plan  
**Date:** 10/17/2023 5:06:22 PM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

0.9%



**Author:** Mikayla Hartford  
**Subject:** SW - Highlight  
**Page Label:** [28] 28 Pond A - Grading Plan  
**Date:** 10/17/2023 5:06:25 PM  
**Status:**  
**Color:** ■  
**Layer:**  
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1.0%



**Author:** Mikayla Hartford  
**Subject:** SW - Highlight  
**Page Label:** [28] 28 Pond A - Grading Plan  
**Date:** 10/17/2023 5:06:28 PM  
**Status:**  
**Color:** ■  
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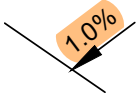
1.0%



Author: Mikayla Hartford  
 Subject: SW - Highlight 1.0%  
 Page Label: [28] 28 Pond A - Grading Plan  
 Date: 10/17/2023 5:06:33 PM  
 Status:  
 Color: ■  
 Layer:  
 Space:



Author: Mikayla Hartford  
 Subject: SW - Highlight 1.1%  
 Page Label: [28] 28 Pond A - Grading Plan  
 Date: 10/17/2023 5:06:38 PM  
 Status:  
 Color: ■  
 Layer:  
 Space:



Author: Mikayla Hartford  
 Subject: SW - Highlight 1.0%  
 Page Label: [28] 28 Pond A - Grading Plan  
 Date: 10/17/2023 5:06:40 PM  
 Status:  
 Color: ■  
 Layer:  
 Space:



Author: Mikayla Hartford  
 Subject: SW - Highlight 1.0%  
 Page Label: [28] 28 Pond A - Grading Plan  
 Date: 10/17/2023 5:06:45 PM  
 Status:  
 Color: ■  
 Layer:  
 Space:



Author: Mikayla Hartford  
 Subject: SW - Highlight 1.0%  
 Page Label: [28] 28 Pond A - Grading Plan  
 Date: 10/17/2023 5:06:49 PM  
 Status:  
 Color: ■  
 Layer:  
 Space:

Pond bottom should have a minimum slope of 3% to the trickle channel and micropool (USDCM Vol 3, detail T-5). Please adjust to minimize future maintenance needs.

Author: Mikayla Hartford  
 Subject: SW - Textbox  
 Page Label: [28] 28 Pond A - Grading Plan  
 Date: 10/17/2023 5:07:03 PM  
 Status:  
 Color: ■  
 Layer:  
 Space:

Pond bottom should have a minimum slope of 3% to the trickle channel and micropool (USDCM Vol 3, detail T-5). Please adjust to minimize future maintenance needs.





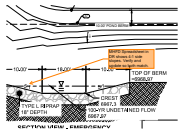
Author: Mikayla Hartford  
 Subject: SW - Highlight  
 Page Label: [28] 28 Pond A - Grading Plan  
 Date: 10/18/2023 8:42:09 AM  
 Status:  
 Color: ■  
 Layer:  
 Space:

5:1



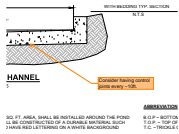
Author: Mikayla Hartford  
 Subject: SW - Highlight  
 Page Label: [28] 28 Pond A - Grading Plan  
 Date: 10/18/2023 8:42:11 AM  
 Status:  
 Color: ■  
 Layer:  
 Space:

5:1



Author: Mikayla Hartford  
 Subject: SW - Textbox with Arrow  
 Page Label: [28] 28 Pond A - Grading Plan  
 Date: 10/18/2023 8:42:36 AM  
 Status:  
 Color: ■  
 Layer:  
 Space:

MHFD Spreadsheet in DR shows 4:1 side slopes. Verify and update so both match.



Author: Mikayla Hartford  
 Subject: SW - Textbox with Arrow  
 Page Label: [28] 28 Pond A - Grading Plan  
 Date: 10/18/2023 9:29:12 AM  
 Status:  
 Color: ■  
 Layer:  
 Space:

Consider having control joints every ~10ft.

TW: 5734.00

Author: Mikayla Hartford  
 Subject: SW - Highlight  
 Page Label: [29] 29 Pond A - Forebay Details  
 Date: 10/18/2023 8:50:17 AM  
 Status:  
 Color: ■  
 Layer:  
 Space:

TW: 5734.00

IV: 5732.00

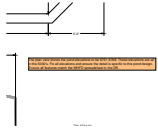
Author: Mikayla Hartford  
 Subject: SW - Highlight  
 Page Label: [29] 29 Pond A - Forebay Details  
 Date: 10/18/2023 9:01:45 AM  
 Status:  
 Color: ■  
 Layer:  
 Space:

5732.0

TW: 5738.50

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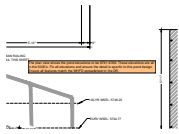
**Author:** Mikayla Hartford  
**Subject:** SW - Highlight : 5738.5  
**Page Label:** [29] 29 Pond A - Forebay Details  
**Date:** 10/18/2023 9:01:55 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**



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**Author:** Mikayla Hartford  
**Subject:** SW - Textbox  
**Page Label:** [29] 29 Pond A - Forebay Details  
**Date:** 10/18/2023 9:06:19 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

The plan view shows the pond elevations to be 6761-6768. These elevations are all in the 5000's. Fix all elevations and ensure the detail is specific to this pond design. Ensure all features match the MHFD spreadsheet in the DR.



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**Author:** Mikayla Hartford  
**Subject:** SW - Textbox  
**Page Label:** [30] 30 Pond A - Outlet Structure  
**Date:** 10/18/2023 9:06:10 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

The plan view shows the pond elevations to be 6761-6768. These elevations are all in the 5000's. Fix all elevations and ensure the detail is specific to this pond design. Ensure all features match the MHFD spreadsheet in the DR.

END TRICKLE  
EL: 5730.50

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**Author:** Mikayla Hartford  
**Subject:** SW - Highlight : 5730.5  
**Page Label:** [30] 30 Pond A - Outlet Structure  
**Date:** 10/18/2023 9:03:24 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

WQCV WSEL: 5  
EL: 5732.83  
FRONT TRASH

---

**Author:** Mikayla Hartford  
**Subject:** SW - Highlight : 5732.83  
**Page Label:** [30] 30 Pond A - Outlet Structure  
**Date:** 10/18/2023 9:03:26 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

EL: 5733.04  
3

---

**Author:** Mikayla Hartford  
**Subject:** SW - Highlight : 5733.04  
**Page Label:** [30] 30 Pond A - Outlet Structure  
**Date:** 10/18/2023 9:03:30 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

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EL: 5736.25      **Author:** Mikayla Hartford      5736.25  
**Subject:** SW - Highlight  
**Page Label:** [30] 30 Pond A - Outlet Structure  
**Date:** 10/18/2023 9:03:36 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

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EL: 5734.77      **Author:** Mikayla Hartford      5734.77  
**Subject:** SW - Highlight  
**Page Label:** [30] 30 Pond A - Outlet Structure  
**Date:** 10/18/2023 9:03:38 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

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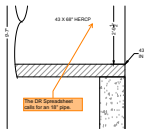
EL: 5727.67 — **Author:** Mikayla Hartford      5727.6  
**Subject:** SW - Highlight  
**Page Label:** [30] 30 Pond A - Outlet Structure  
**Date:** 10/18/2023 9:03:45 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

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JP: 5736.00      **Author:** Mikayla Hartford      5736.00  
**Subject:** SW - Highlight  
**Page Label:** [30] 30 Pond A - Outlet Structure  
**Date:** 10/18/2023 9:03:59 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

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43 X 68 HERCP  
NV: 5730.25      **Author:** Mikayla Hartford      5730.25  
**Subject:** SW - Highlight  
**Page Label:** [30] 30 Pond A - Outlet Structure  
**Date:** 10/18/2023 9:04:03 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**



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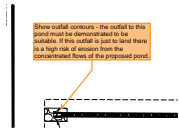
**Author:** Mikayla Hartford  
**Subject:** SW - Textbox with Arrow  
**Page Label:** [30] 30 Pond A - Outlet Structure  
**Date:** 10/18/2023 9:23:24 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

The DR Spreadsheet calls for an 18" pipe.

LINE # (IN 1' OPEN AREA) / CROSS HATCH AREA  
PLAN VIEW  
TRASH SCREEN DETAIL  
SCALE: 3/4" = 1'  
\*REINFORCEMENT DESIGN WILL BE PROVIDED BY CITY OF COLORADO SPRINGS

Author: Mikayla Hartford  
Subject: SW - Highlight  
Page Label: [30] 30 Pond A - Outlet Structure  
Date: 10/18/2023 9:31:13 AM  
Status:  
Color: ■  
Layer:  
Space:

CITY OF COLORADO SPRINGS



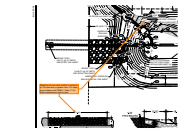
Author: Mikayla Hartford  
Subject: SW - Textbox with Arrow  
Page Label: [32] 32 Pond B - Grading Plan  
Date: 10/18/2023 9:40:09 AM  
Status:  
Color: ■  
Layer:  
Space:

Show outfall contours - the outfall to this pond must be demonstrated to be suitable. If this outfall is just to land there is a high risk of erosion from the concentrated flows of the proposed pond.

All general comments on Pond A are applicable to Pond B.  
TEMP. /

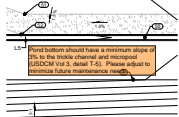
Author: Mikayla Hartford  
Subject: SW - Textbox  
Page Label: [32] 32 Pond B - Grading Plan  
Date: 10/18/2023 9:47:03 AM  
Status:  
Color: ■  
Layer:  
Space:

All general comments on Pond A are applicable to Pond B.



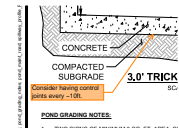
Author: Mikayla Hartford  
Subject: SW - Textbox with Arrow  
Page Label: [32] 32 Pond B - Grading Plan  
Date: 10/18/2023 9:48:09 AM  
Status:  
Color: ■  
Layer:  
Space:

Stabilized access ramp shall be a minimum of 15ft wide and no greater than 12% slope, in accordance with DCMv1, Chap 11.2.2. Show maintenance road on plan



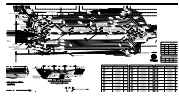
Author: Mikayla Hartford  
Subject: SW - Textbox  
Page Label: [32] 32 Pond B - Grading Plan  
Date: 10/18/2023 9:48:33 AM  
Status:  
Color: ■  
Layer:  
Space:

Pond bottom should have a minimum slope of 3% to the trickle channel and micropool (USDCM Vol 3, detail T-5). Please adjust to minimize future maintenance needs.



Author: Mikayla Hartford  
Subject: SW - Textbox with Arrow  
Page Label: [32] 32 Pond B - Grading Plan  
Date: 10/18/2023 9:49:02 AM  
Status:  
Color: ■  
Layer:  
Space:

Consider having control joints every ~10ft.



**Author:** Mikayla Hartford  
**Subject:** SW - Highlight  
**Page Label:** [32] 32 Pond B - Grading Plan  
**Date:** 10/18/2023 9:48:40 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

1.4%  
 1.6%  
 1.3%  
 1.5%  
 40  
 48  
 49  
 38  
 28  
 27  
 26



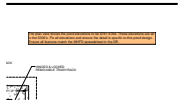
**Author:** Mikayla Hartford  
**Subject:** SW - Textbox  
**Page Label:** [32] 32 Pond B - Grading Plan  
**Date:** 10/18/2023 9:52:52 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

Verify all pond details are accurate to this project - Further review will be necessary with the next submittal once the elevations on all pond details are accurate.



**Author:** Mikayla Hartford  
**Subject:** SW - Textbox  
**Page Label:** [33] 33 Pond B - Forebay Details  
**Date:** 10/18/2023 9:51:57 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

The plan view shows the pond elevations to be 6761-6768. These elevations are all in the 5000's. Fix all elevations and ensure the detail is specific to this pond design. Ensure all features match the MHFD spreadsheet in the DR.



**Author:** Mikayla Hartford  
**Subject:** SW - Textbox  
**Page Label:** [34] 34 Pond B - Outlet Structure  
**Date:** 10/18/2023 9:52:01 AM  
**Status:**  
**Color:** ■  
**Layer:**  
**Space:**

The plan view shows the pond elevations to be 6761-6768. These elevations are all in the 5000's. Fix all elevations and ensure the detail is specific to this pond design. Ensure all features match the MHFD spreadsheet in the DR.