

VOLLMER RV STORAGE

SECTION 34, TOWNSHIP 12 SOUTH AND RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN

COUNTY OF EL PASO

STATE OF COLORADO

GRADING AND EROSION CONTROL PLAN

EPC STORMWATER REVIEW COMMENTS IN ORANGE BOXES WITH BLACK TEXT

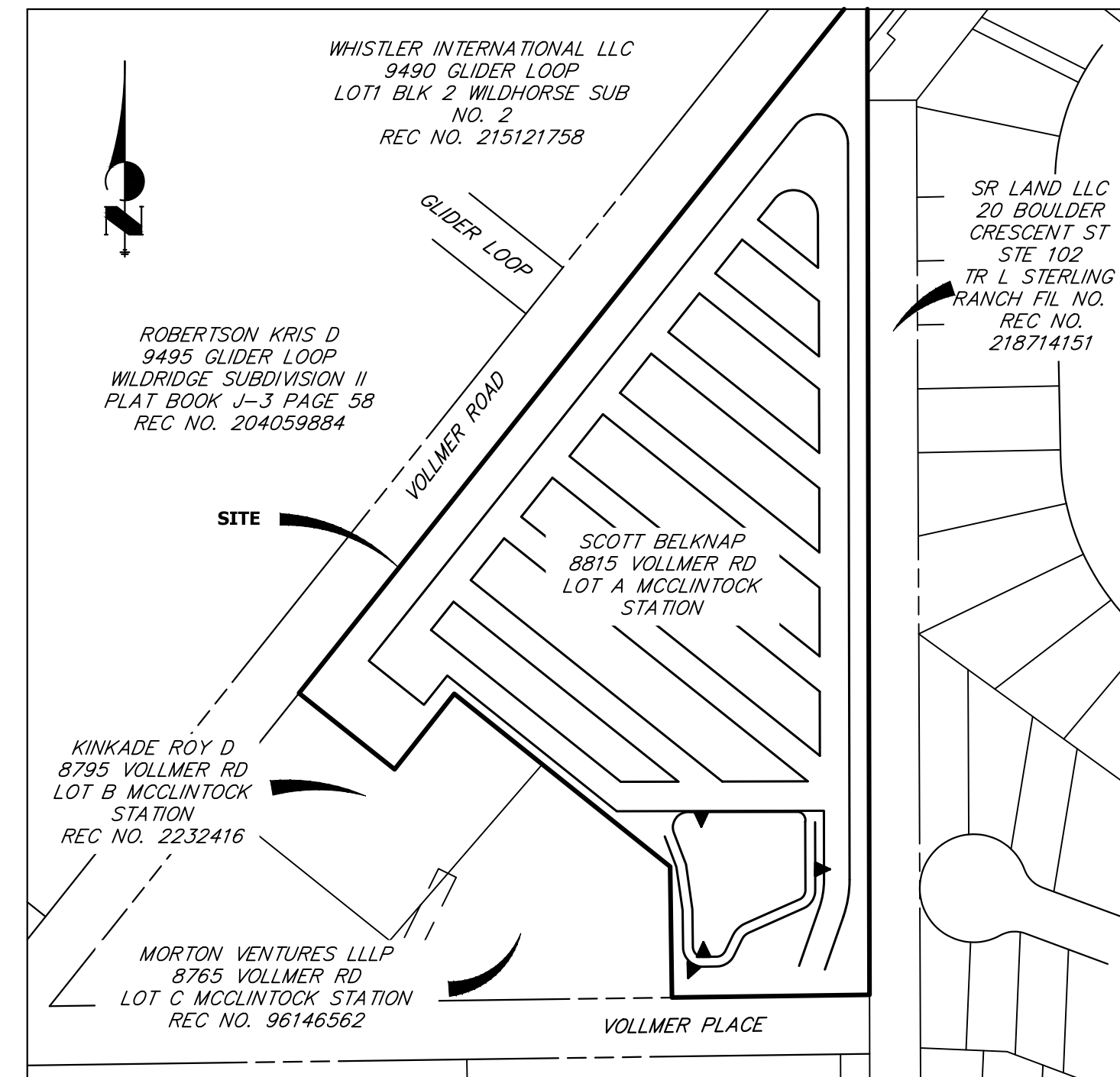
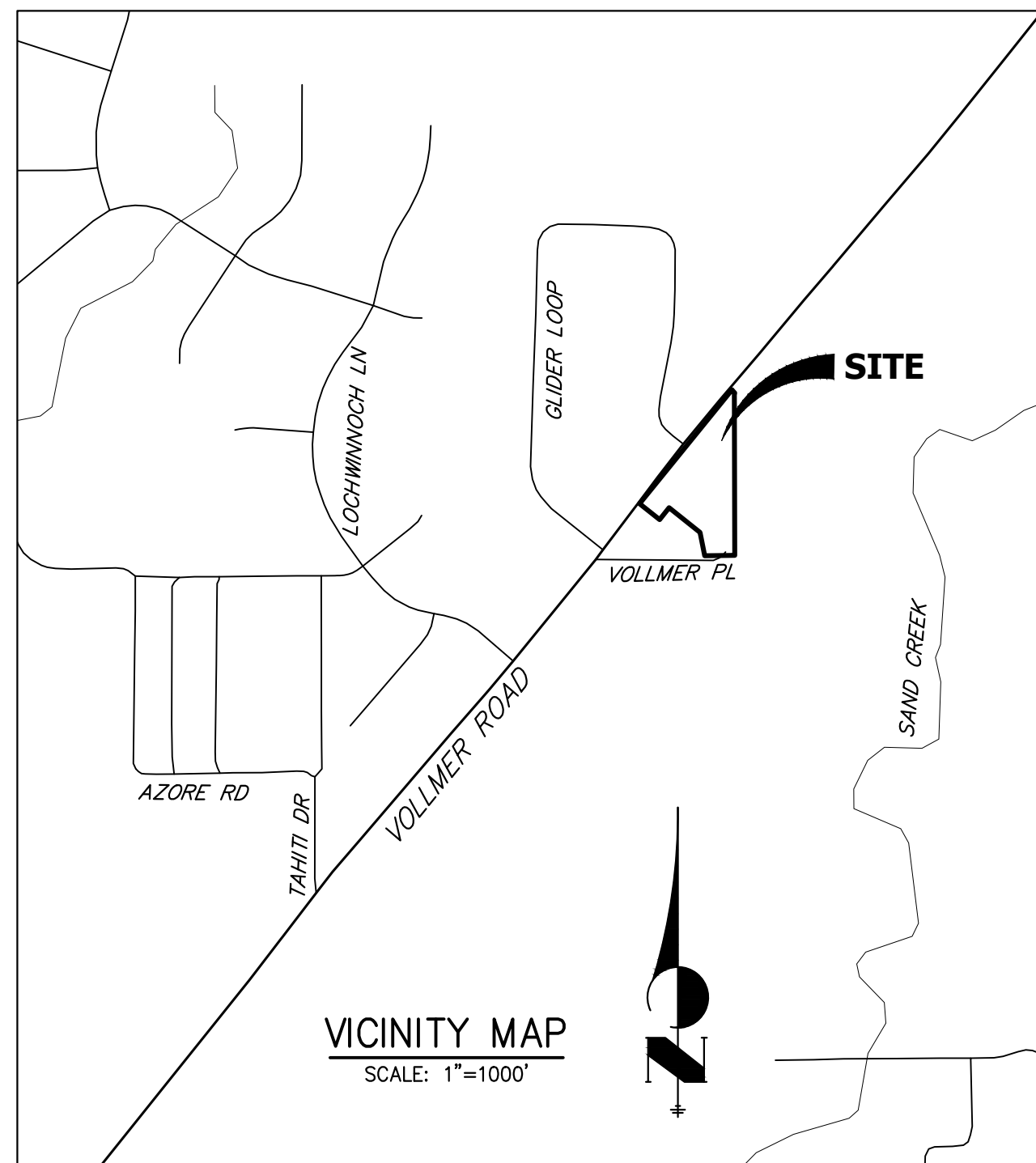


Know what's below.
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GRADING AND EROSION CONTROL STANDARD NOTES

- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
- 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.
- A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
- CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
- ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES ARE NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN.
- TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS.
- FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLANT DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
- ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
- EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE UNLESS SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.
- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.
- DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.
- EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
- NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
- OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- A SOILS AND GEOLOGY HAZARD LETTER HAS BEEN PREPARED BY JR ENGINEERING AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB ONE (1) ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WQCD - PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT



SITE MAP

SCALE: 1"=150'

CONTACTS:

OWNER/DEVELOPER
ATTN: SCOTT BELKNAP
3603 FIRST LIGHT DRIVE
CASTLE ROCK, CO 80109
P-(719) 322-3556

ENGINEER/SURVEYOR
JR ENGINEERING LLC
ATTN: RYAN E. BURNS
5475 TECH CENTER DRIVE, SUITE 235
COLORADO SPRINGS, CO 80919
P-(303) 267-6178

ELECTRIC DEPARTMENT
MOUNTAIN VIEW ELECTRIC
11140 E. WOODMAN ROAD
FALCON, CO 80831
(719) 495-2283

SHEET INDEX:

- 1 : COVER SHEET
- 2 : LEGEND
- 3 : EROSION CONTROL PLAN
- 4-5 : STORM SEWER PLAN AND PROFILE
- 6-7 : POND PLANS
- 8-11: POND DETAILS
- 12-13: GEC DETAILS

PPR-22-045

EL PASO COUNTY STATEMENT

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.

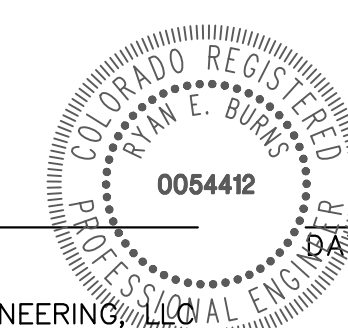
JOSHUA PALMER, P.E. DATE

COUNTY ENGINEER/ECM ADMINISTRATOR

ENGINEER'S STATEMENT

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLANS.

RYAN E. BURNS, P.E.
COLORADO P.E. 0054412
FOR AND ON BEHALF OF JR ENGINEERING



OWNER/DEVELOPER STATEMENT

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

SCOTT BELKNAP DATE

3603 FIRST LIGHT DRIVE
CASTLE ROCK, CO 80109

BY	DATE	No.	REVISION	H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	VOLLMER RV STORAGE	COVER SHEET
										SHEET 1 OF 13	JOB NO. 25251.00

PREPARED FOR
SCOTT BELKNAP
3603 FIRST LIGHT DRIVE
CASTLE ROCK, CO 80109
(719) 322-3556
SCOTT.BELKNAP@YAHOO.COM

J.R. ENGINEERING
A Westman Company
Central 303-740-9888 • Colorado Springs 719-583-2583
Fort Collins 970-491-9888 • www.jrengineering.com

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, OR ENGINEERING APPROVES THEIR USE, THEY ARE NOT TO BE USED OR REPRODUCED WITHOUT WRITTEN AUTHORIZATION.

LAYER LINETYPE LEGEND

Table with 2 columns: EXISTING and PROPOSED. Lists various line types for features like PHASE LINE, MATCH LINE, BOUNDARY LINE, PROPERTY LINE, EASEMENT LINE, RIGHT OF WAY, R.O.W. A LINE, CENTERLINE, CITY LIMITS, WIRE FENCE, CHAIN LINK FENCE, WOOD FENCE, MASONRY FENCE, GUARDRAIL, CONC. BARRIER, CABLE TV, ELECTRIC, FIBER OPTIC, GAS MAIN, IRRIGATION MAIN, OIL/PETRO. MAIN, OVERHEAD UTILITY, SANITARY SEWER, STORM DRAIN, TELEPHONE, WATER MAIN, RAW WATER LINE, SWALE/WATERWAY FLOWLINE, DIVERSION DITCH, DIVERSION CHANNEL, MAJOR DRAINAGE BASIN, MINOR DRAINAGE BASIN, TOP OF SLOPE, TOE OF SLOPE, EDGE OF WATER, INDEX CONTOUR, INTERMEDIATE CONTOUR, DEPRESSION CONT. (INDEX), DEPRESSION CONT. (INTER), TOP OF CUTS, TOE OF FILLS, CUT AND FILL LINE, SILT FENCE, 100 YEAR FLOODPLAIN, 500 YEAR FLOODPLAIN, FLOODWAY, BASE FLOOD ELEVATION, EDGE OF WETLANDS, STONE WALL.

LANDSCAPE LEGEND

Table with 2 columns: EXISTING and PROPOSED. Lists landscape features: TREE - CONIFEROUS, TREE - DECIDUOUS, SHRUB/BUSH, SHRUBS AND BUSHES, IRRIGATION BOX, IRRIGATION SPRINKLER, IRRIGATION VALVE, BOLLARD, FLAGPOLE.



UTILITIES LEGEND

Table with 2 columns: EXISTING and PROPOSED. Lists utility types: STORM SEWER (MANHOLE, STORM INLET, AREA INLET - SQUARE, AREA INLET - ROUND, FLARED END SECTION, RIPRAP), SANITARY SEWER (LINE MARKER, SERVICE MARKER, CLEAN-OUT, MANHOLE W/ DIRECTIONAL FLOW ARROW), WATER LINE (LINE MARKER, SERVICE MARKER, FIRE HYDRANT, FIRE CONNECTION, MANHOLE, BEND, BLOW-OFF VALVE, WELL, METER, VALVE, REDUCER, THRUST BLOCK, CROSS, PLUG W/ THRUST BLOCK, TEE, REVERSE ANCHOR, ANODE, AIR & VACUUM VALVE ASSEMBLY, TRANSMISSION BLOW-OFF ASSEMBLY), GAS LINE (MARKER, SERVICE MARKER, METER, VALVE, PLUG, TEE), DRY UTILITIES (CABLE TV MARKER, CABLE TELEVISION PEDESTAL, ELECTRIC MARKER, ELECTRIC SERVICE MARKER, ELECTRICAL PEDESTAL, ELECTRICAL METER, ELECTRICAL MANHOLE, FIBER-OPTIC MARKER, IRRIGATION PEDESTAL, TELEPHONE MARKER, TELEPHONE PEDESTAL, TELEPHONE MANHOLE, UTILITY POLE, GUY ANCHOR, GUY POLE), MISC. UTILITIES (VENT PIPE, TEST HOLE DESIGNATOR).

MONUMENTATION LEGEND

Table with 2 columns: KEY and SYMBOL. Lists monument types: ALUMINUM CAP - FOUND, BRASS CAP - FOUND, BENCHMARK - FOUND, CROSS - FOUND, MONUMENT - SET, MONUMENT - FOUND (DEFAULT), MONUMENT - FOUND (ALTERNATE 1), MONUMENT - FOUND (ALTERNATE 2), MONUMENT - FOUND (ALTERNATE 3), MONUMENT - FOUND (ALTERNATE 4), MONUMENT - FOUND (ALTERNATE 5), MONUMENT - FOUND (ALTERNATE 6), MONUMENT - FOUND (ALTERNATE 7), NAIL & WASHER - FOUND, PANEL - FOUND, PK NAIL - FOUND, ROW MONUMENT - FOUND, ROW MARKER - FOUND, SECTION CORNER - FOUND, SECTION CORNER - SET, QUARTER-SECTION CORNER - FOUND, QUARTER-SECTION CORNER - SET, SECTION CENTER - FOUND, SECTION CENTER - FOUND, CONTROL/TRAVERSE POINT - SET.

STORM WATER MANAGEMENT

Table with 2 columns: KEY and SYMBOL. Lists storm water management features: CHECK DAM, CONSTRUCTION ROAD STABILIZATION, CURB SOCK INLET PROTECTION, CONCRETE WASHOUT AREA, DIVERSION DITCH AND DIKE, TEMPORARY, DIVERSION CHANNEL, TEMPORARY, DEWATERING, EROSION CONTROL BLANKET, INLET FILTER, INLET PROTECTION, MULCHING, OUTLET PROTECTION, PAVED FLUME, PERMENENT SEEDING, REINFORCED CONCRETE DAM, ROUGH CUT STREET CONTROL, SEDIMENT BASIN, SEDIMENT CONTROL LOG, SILT FENCE, SURFACE ROUGHENING, STABILIZED STAGING AREA, SEDIMENT TRAP, STRAW BALE BARRIER, TERRACING, TEMPORARY SEEDING, TEMPORARY STREAM CROSSING CULVERT/BRIDGE, TEMPORARY STREAM CROSSING FORD TYPE, TEMPORARY SLOPE DRAIN, VEHICLE TRACKING CONTROL, VEHICLE TRACKING CONTROL WITH WASH RACK.

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, JR ENGINEERING APPROVES THEIR USE. USES DESIGNATED BY WRITTEN AUTHORIZATION.

PREPARED FOR SCOTT BELKNAP 3603 FIRST LIGHT DRIVE CASTLE ROCK, CO 80109 (719)-322-3556 SCOTT.BELKNAP@YAHO.O.COM

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Table with columns: No., REVISION, BY, DATE. Contains revision records.

Table with columns: H-SCALE, V-SCALE, DATE, DESIGNED BY, DRAWN BY, CHECKED BY. Contains project details.

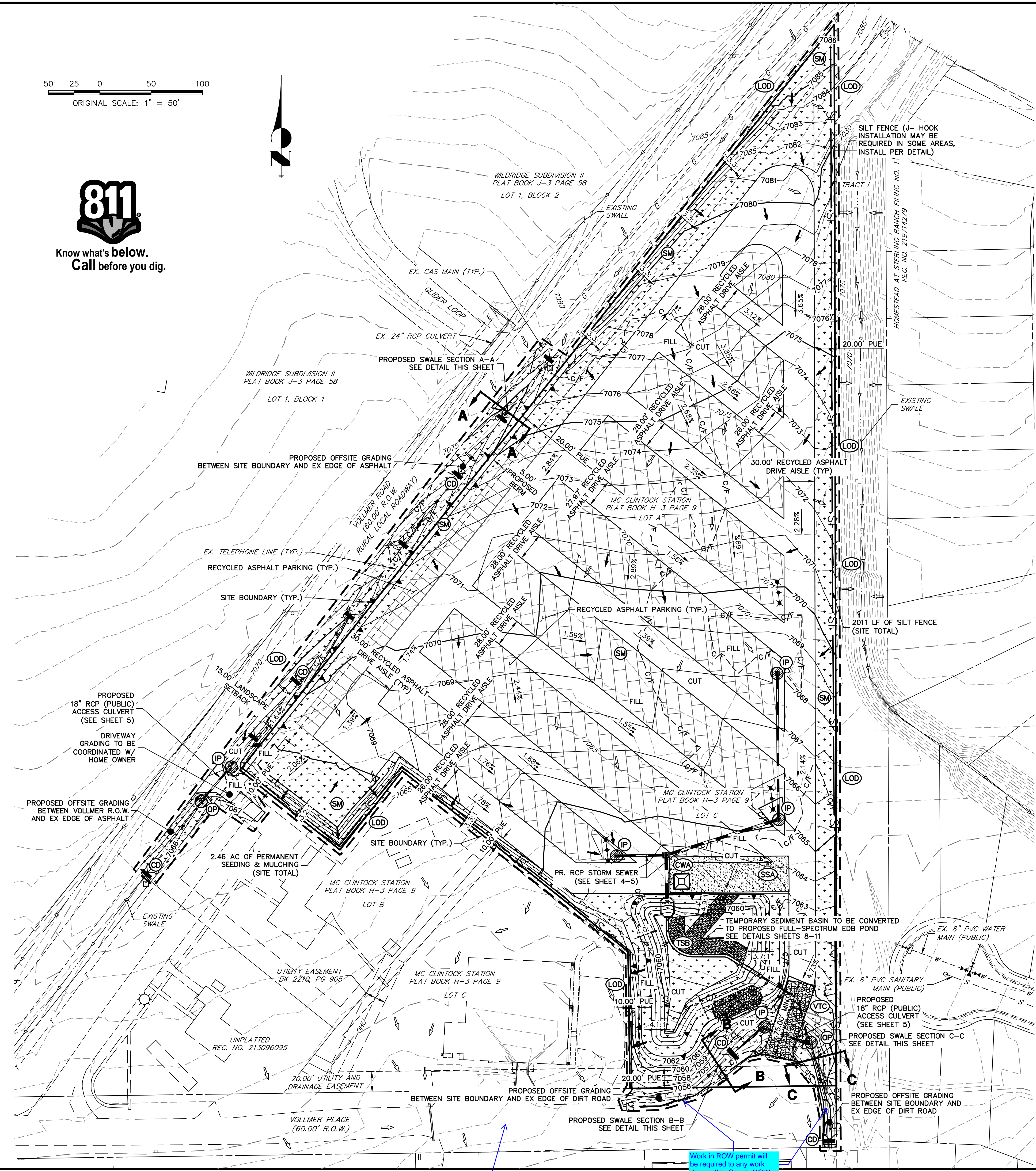
Table with columns: VOLLMER RV STORAGE, LEGEND, SHEET 2 OF 13, JOB NO. 25251.00.

ENGINEER'S STATEMENT: THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLANS. Includes a circular professional seal for RYAN E. BURNS, P.E., COLORADO P.E. 0054412.

50 25 0 50 100
ORIGINAL SCALE: 1" = 50'



Know what's below.
Call before you dig.

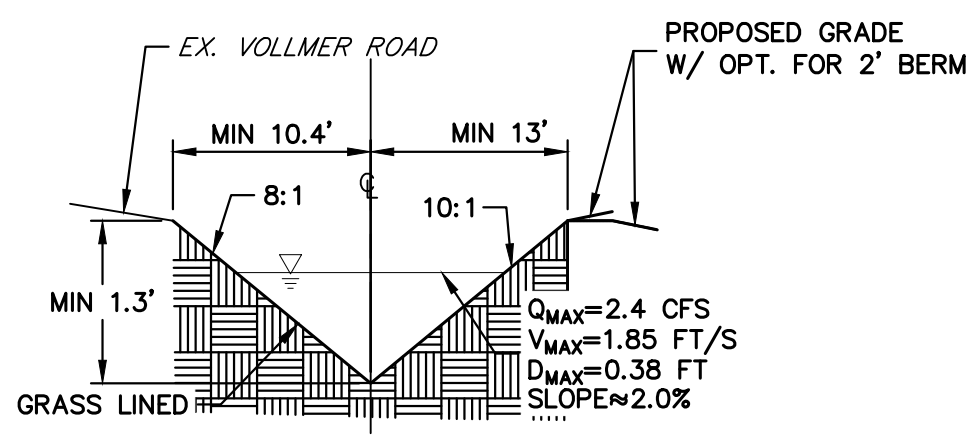


LEGEND

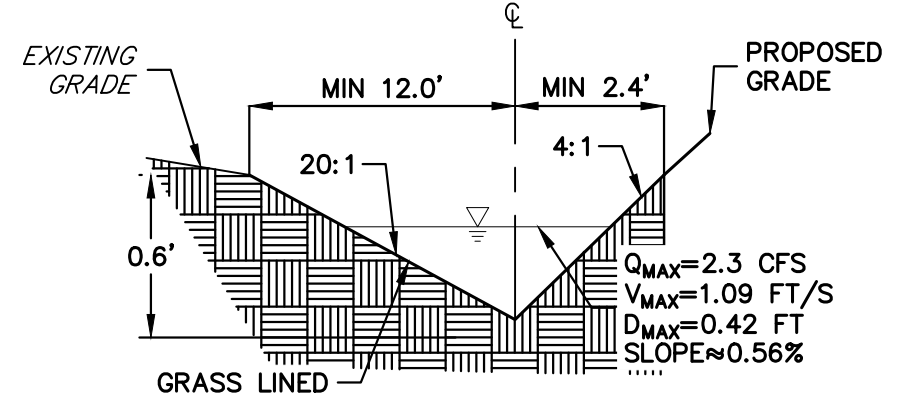
SILT FENCE	SF	SF	PROPOSED FLOW PATH	→
CUT/FILL BOUNDARY	C/F	- - - C/F - - -	EXISTING FLOW PATH	⇨
STABILIZED STAGING AREA	SSA	[Stippled Box]	LIMITS OF CONSTRUCTION/ DISTURBANCE	LOD [Dashed Line]
VEHICLE TRACKING CONTROL	VTC	[Cross-hatched Box]	PERMANENT SEEDING AND MULCHING	SM [Stippled Box]
CONCRETE WASHOUT AREA	CWA	[Square Box]	TEMPORARY SEDIMENT BASIN	TSB [Stippled Box]
OUTLET PROTECTION	OP	[Circle with Diagonal Line]	TEMPORARY CHECK DAM	CD [Circle with Diagonal Line]
INLET PROTECTION	IP	[Circle with Diagonal Line]		

GEC NOTES:

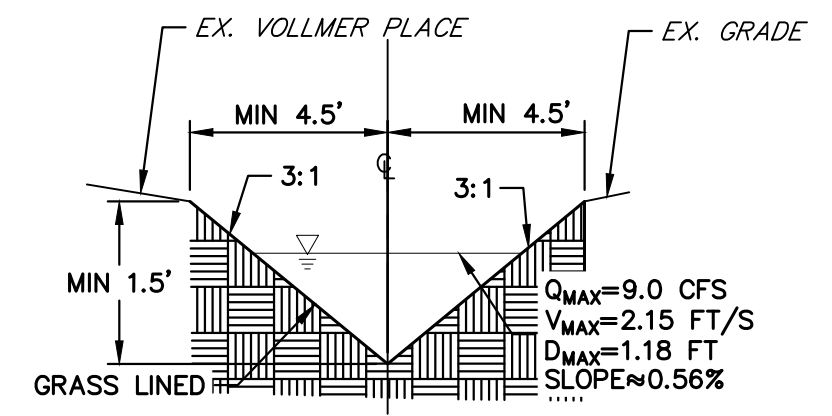
1. THE EXISTING VEGETATION IS NATIVE MEADOW GRASSES AND COVERS APPROXIMATELY 60% OF THE SITE.
2. NO BATCH PLANTS WILL BE UTILIZED ON THIS SITE.
3. OFFSITE GRADING IS REQUIRED FOR THE DEVELOPMENT OF THIS SITE IN ORDER TO SAFELY ROUTE PROPOSED FLOWS. GRADING HAS BEEN LIMITED TO THE VOLLMER ROAD R.O.W. AND VOLLMER PLACE R.O.W.
4. THE INITIAL BMPs INCLUDE: SF, VTC, SSA, CD, AND TSB
THE INTERIM BMPs INCLUDE: OP AND IP
THE FINAL PHASE BMPs INCLUDE: SM AND REMOVAL OF TEMPORARY BMPs ONCE FINAL STABILIZATION IS COMPLETE
5. REFER TO LANDSCAPE PLANS FOR FINAL STABILIZATION.



SWALE SECTION A-A
TYPICAL DETAIL
SCALE: NTS



SWALE SECTION B-B
TYPICAL DETAIL
SCALE: NTS



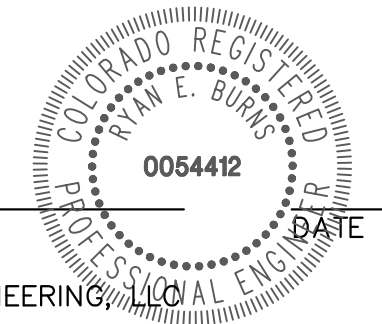
SWALE SECTION C-C
TYPICAL DETAIL
SCALE: NTS

THE LOCATIONS OF EXISTING ABOVE GROUND AND UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL ABOVE GROUND AND UNDERGROUND UTILITIES.

ENGINEER'S STATEMENT

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RYAN E. BURNS, P.E.
COLORADO P.E. 0054412
FOR AND ON BEHALF OF JR ENGINEERING



UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, OR ENGINEERING APPROVES THEIR USE, THESE DRAWINGS ARE DESIGNATED BY WRITTEN AUTHORIZATION.

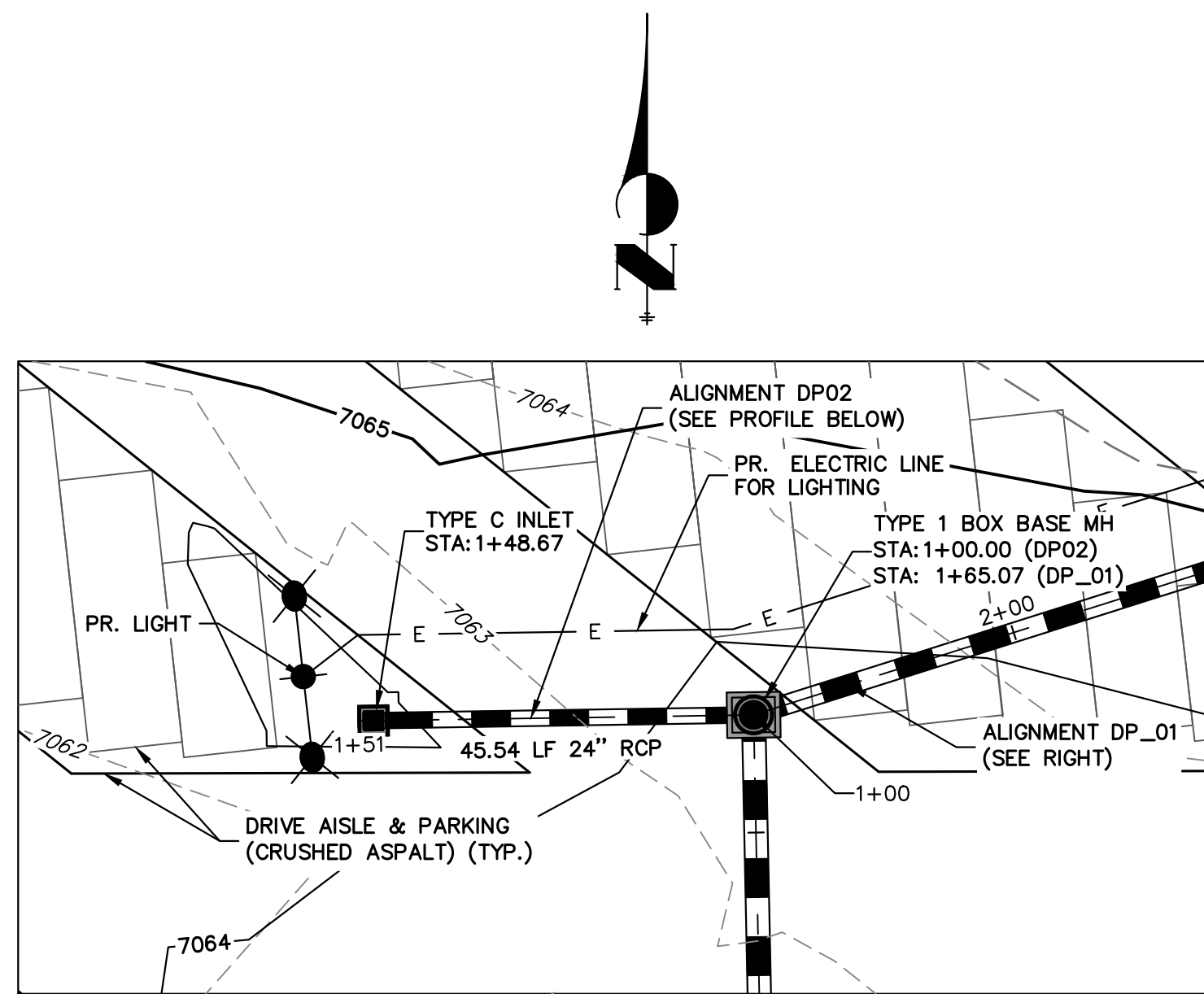
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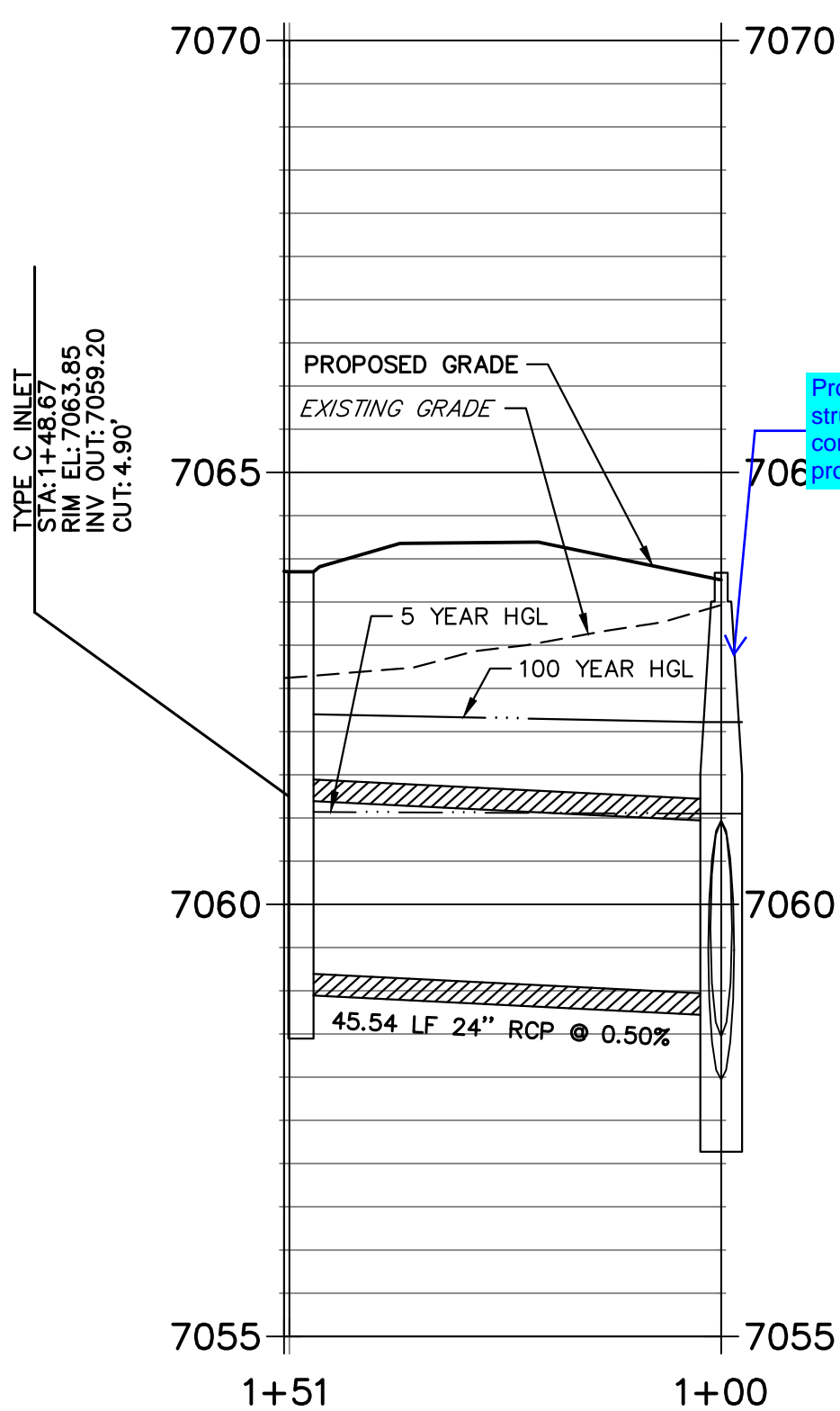
No.	REVISION	BY	DATE

H-SCALE	1"=40'
V-SCALE	N/A
DATE	05/15/23
DESIGNED BY	APL
DRAWN BY	PAL
CHECKED BY	

VOLLMER RV STORAGE
EROSION CONTROL PLAN
SHEET 3 OF 13
JOB NO. 25251.00



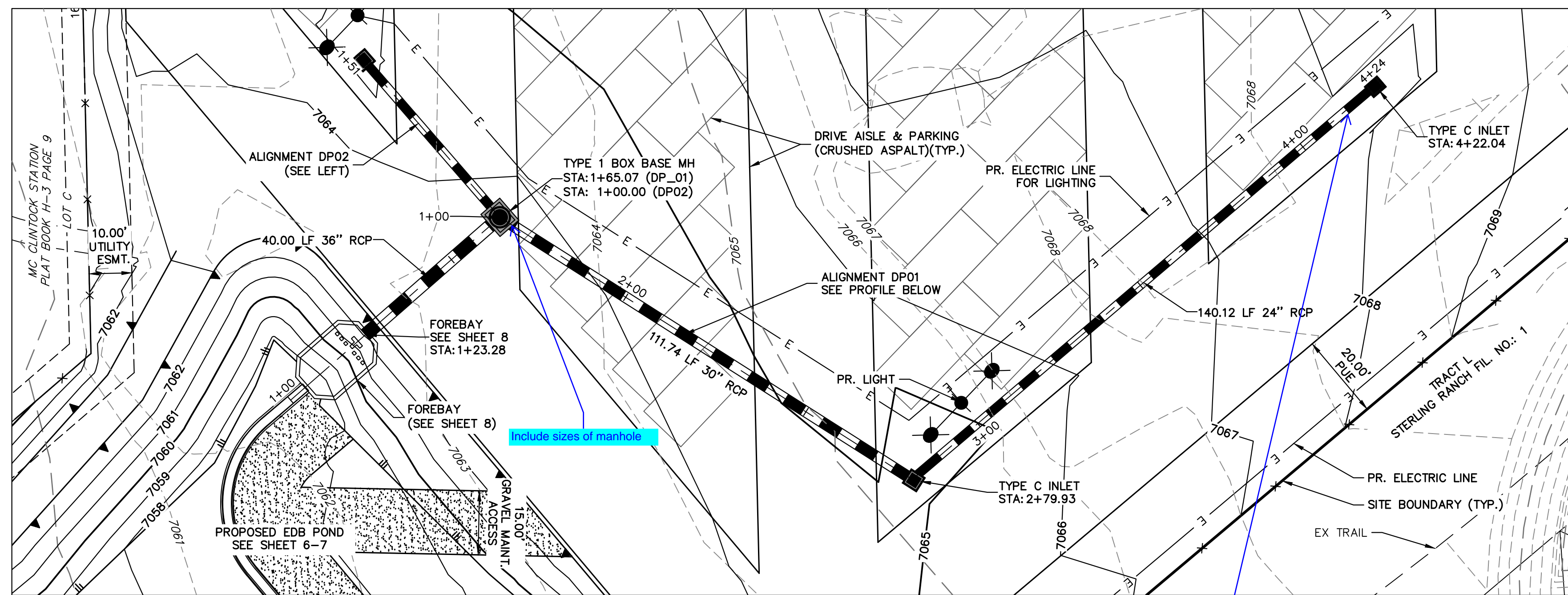
**DP02 PROFILE
STA 1+00.00 TO 1+50.63**



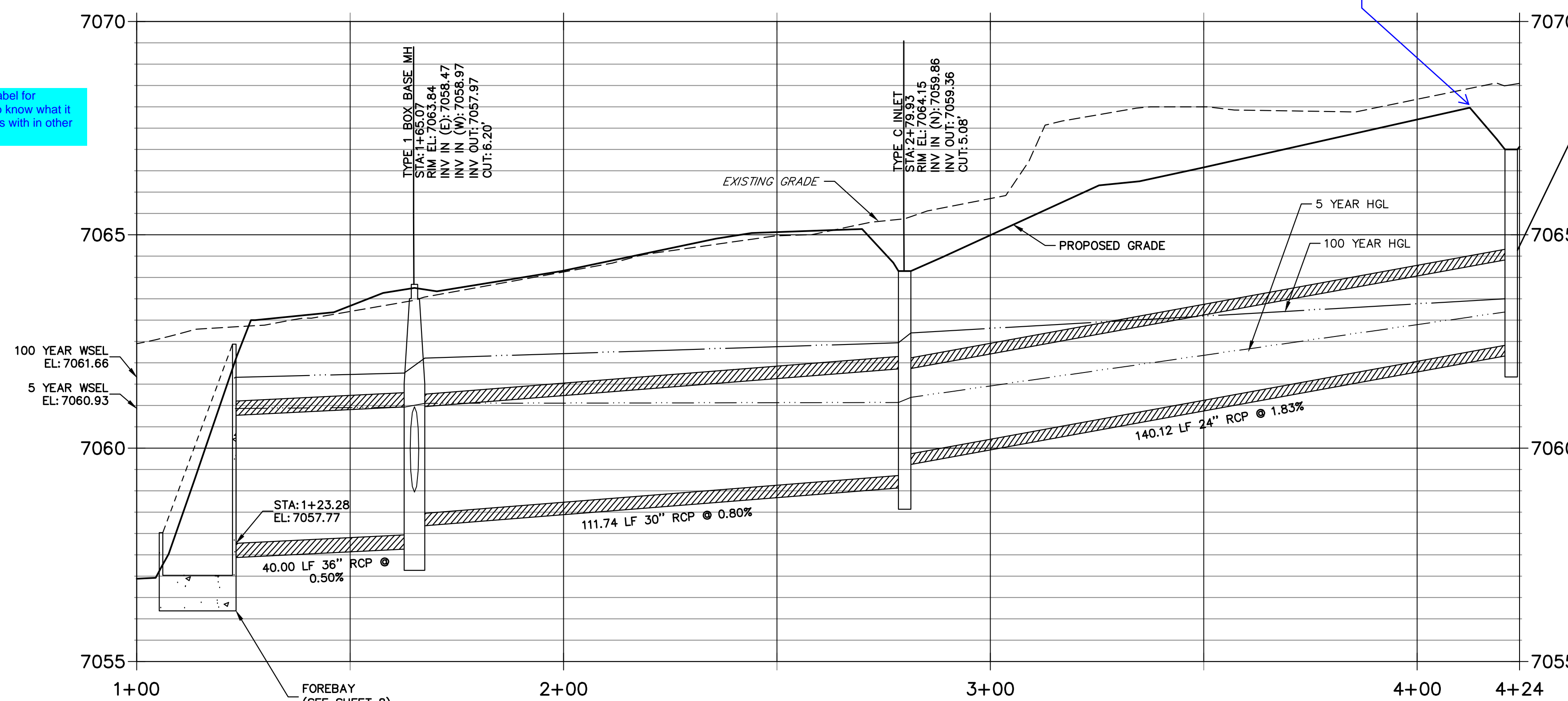
HORIZONTAL
ORIGINAL SCALE: 1" = 20'
VERTICAL
ORIGINAL SCALE: 1" = 2'



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**DP_01 PROFILE
STA 1+00.00 TO 4+24.00**



Grading plan does not indicate an elevation 7068 on this side of area inlet

Provide a label for structure so know what it corresponds with in other profile

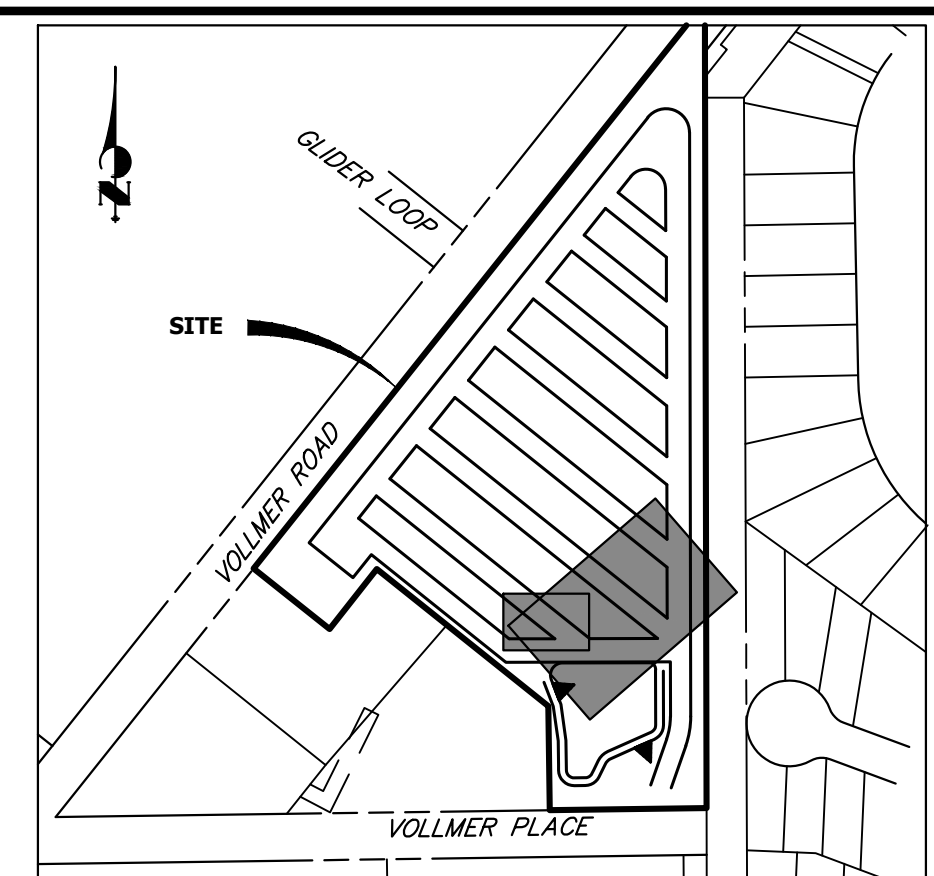
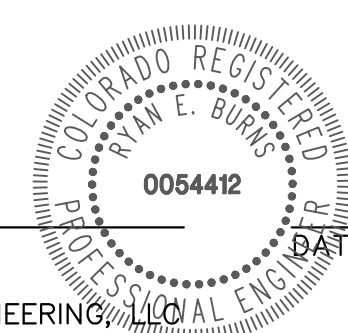
STORM SEWER NOTES

- SEE SHEET 1 FOR BASIS OF BEARING. SEE SHEET 2 FOR LEGEND.
- ALL STORM SEWER PIPES, INLETS, MANHOLES, AND APPURTENANCES WITHIN THE R.O.W. ARE PUBLIC. STORM FACILITIES OUTSIDE OF THE PUBLIC R.O.W. ARE PRIVATE, UNLESS OTHERWISE NOTED.
- ALL STATIONING IS PIPE CENTERLINE UNLESS OTHERWISE NOTED.
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- SEE DETAIL SHEETS 8-11 FOR APPLICABLE DETAILS.

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RYAN E. BURNS, P.E.
COLORADO P.E. 0054412
FOR AND ON BEHALF OF JR ENGINEERING



**KEY MAP
SCALE: NTS**

UNLIT SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES, OR ENGINEERING APPROVES THEIR USE DESIGNATED BY WRITTEN AUTHORIZATION.

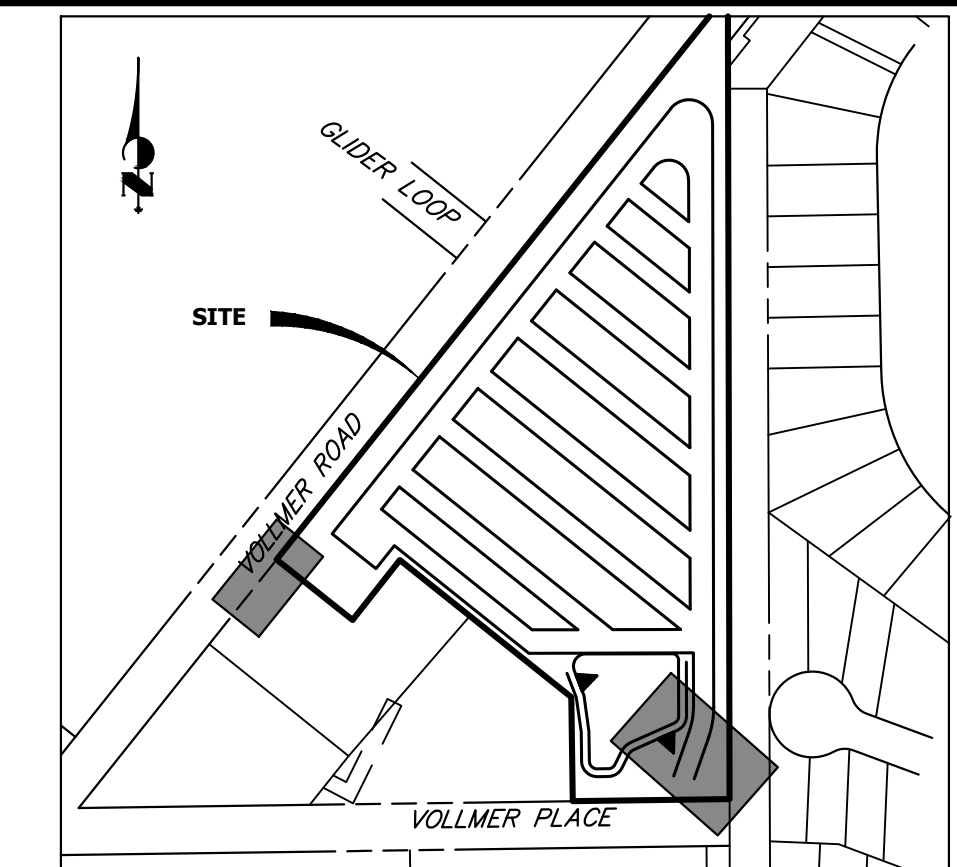
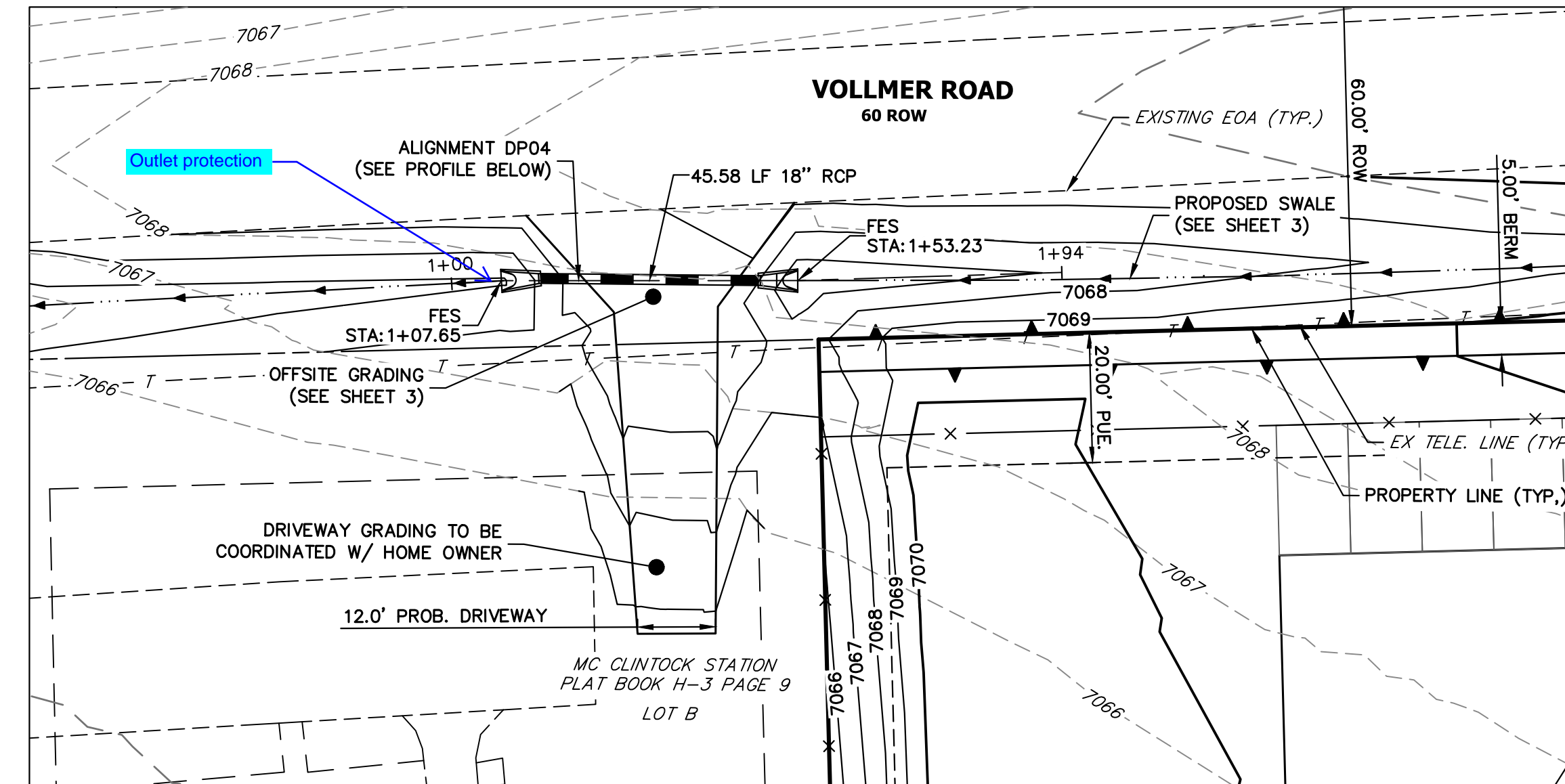
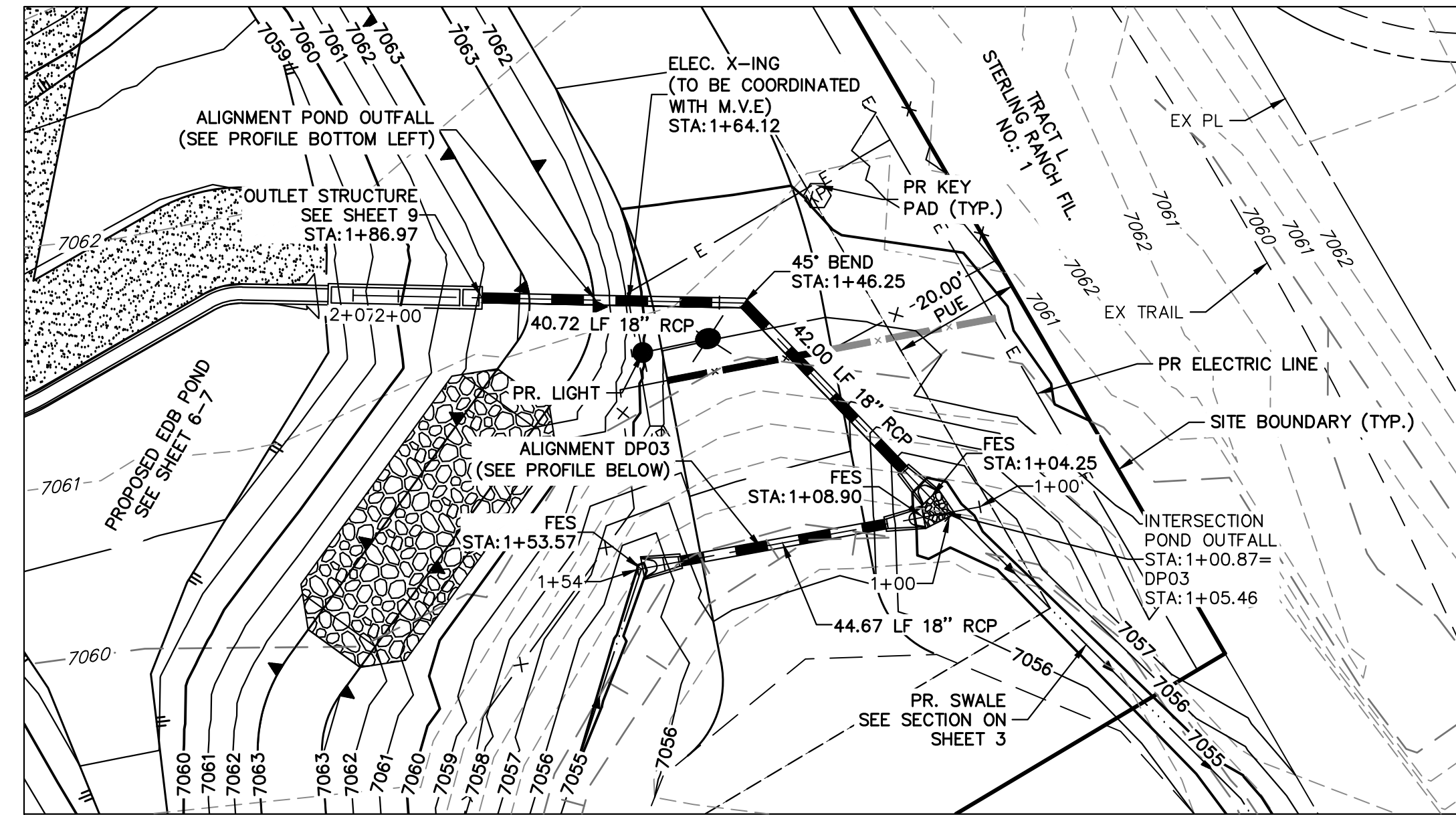
PREPARED FOR
SCOTT BELKNAP
3603 FIRST LIGHT DRIVE
CASTLE ROCK, CO 80109
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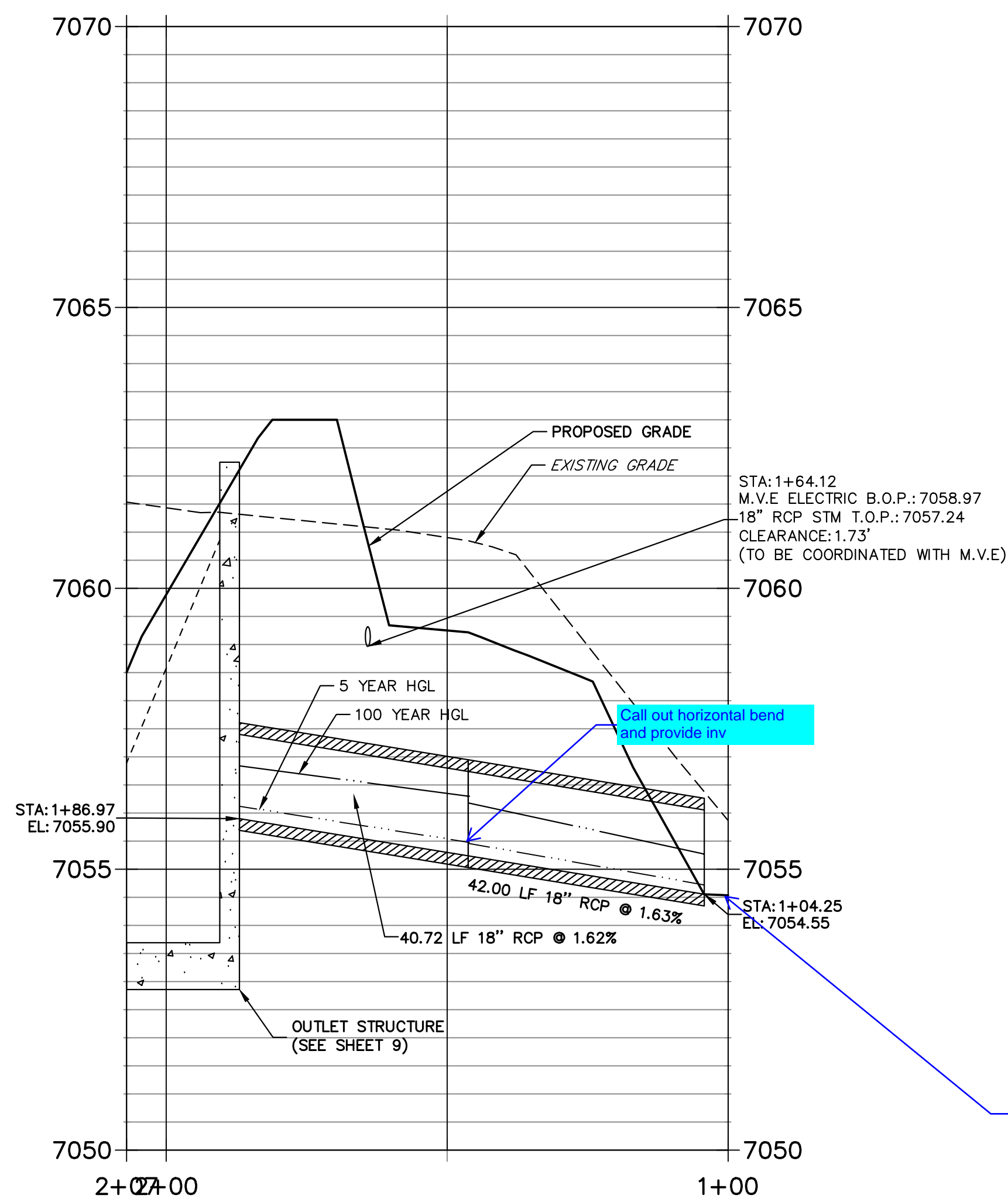
NO.	REVISION	DATE

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V-SCALE	1"=2'
DATE	05/15/23
DESIGNED BY	QNL
DRAWN BY	QNL
CHECKED BY	

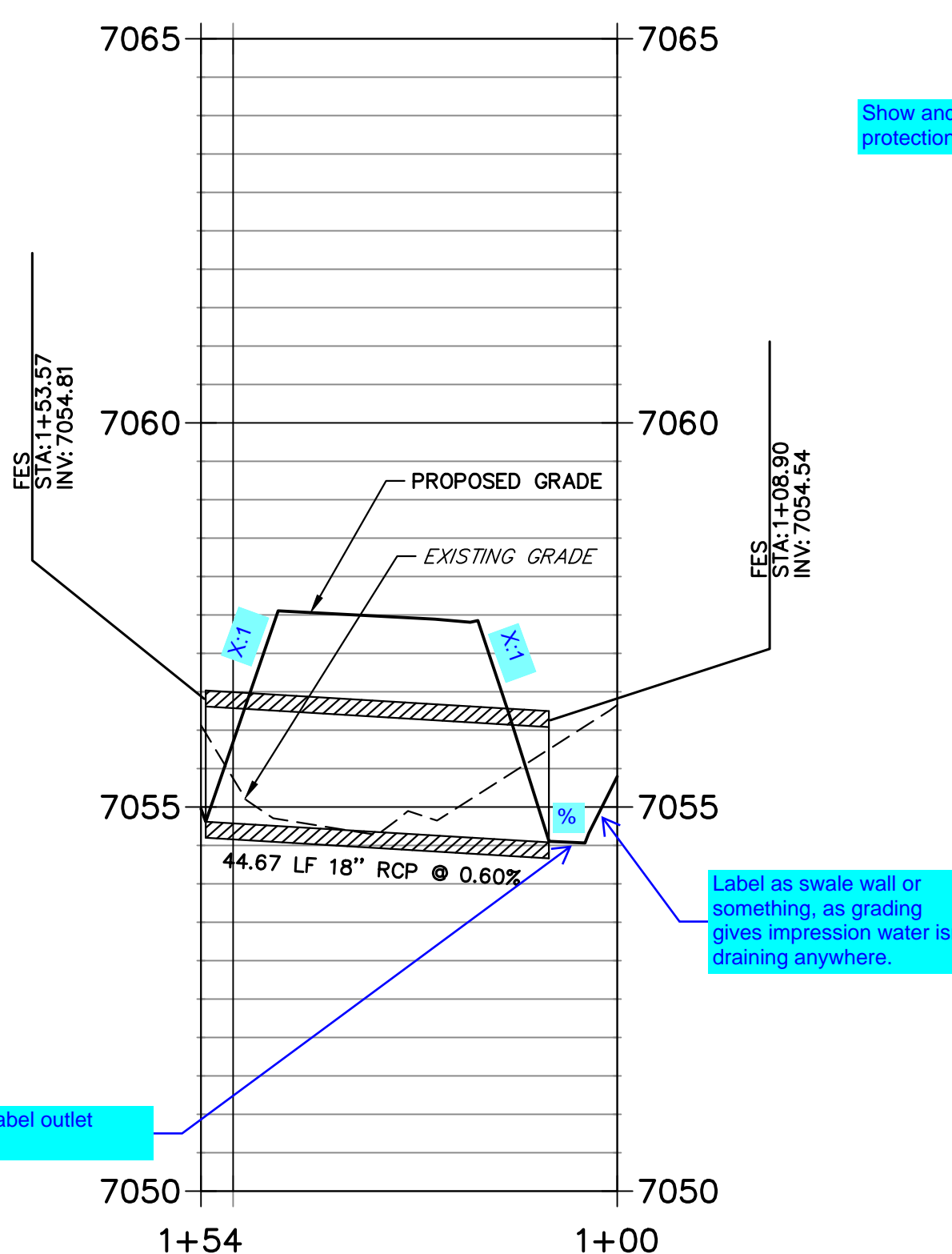
VOLLMER RV STORAGE
STORM SEWER PLAN AND PROFILE
SHEET 4 OF 13
JOB NO. 25251.00



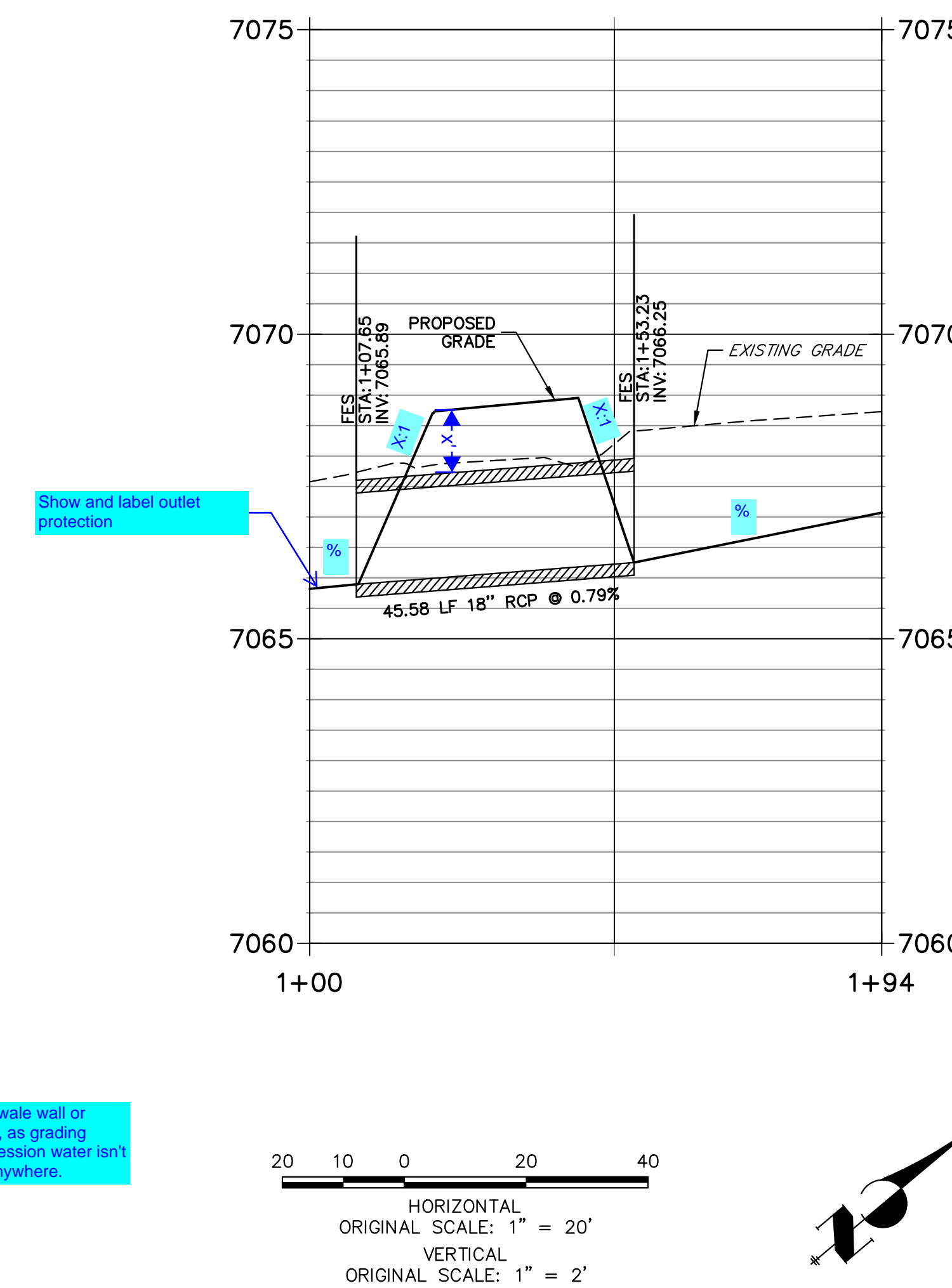
**POND OUTFALL PROFILE
STA 1+00.00 TO 2+07.05**



**DPO3 PROFILE
STA 1+00.00 TO 1+54.19**



**DPO4 PROFILE
STA 1+00.00 TO 1+93.88**



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FOR AND ON BEHALF OF JR ENGINEERING



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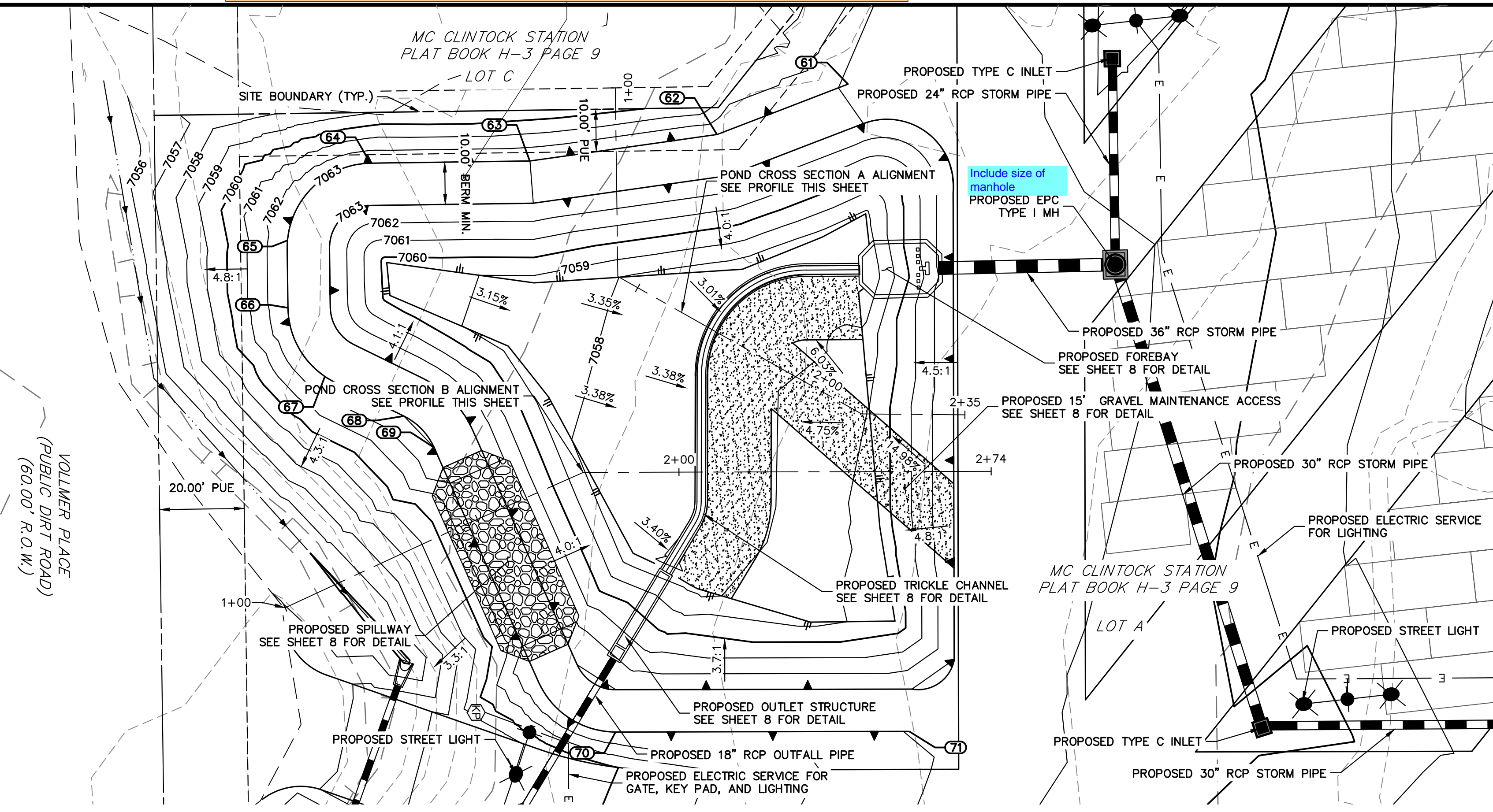
No.	REVISION	BY	DATE

VOLLMER RV STORAGE
STORM SEWER PLAN AND PROFILE

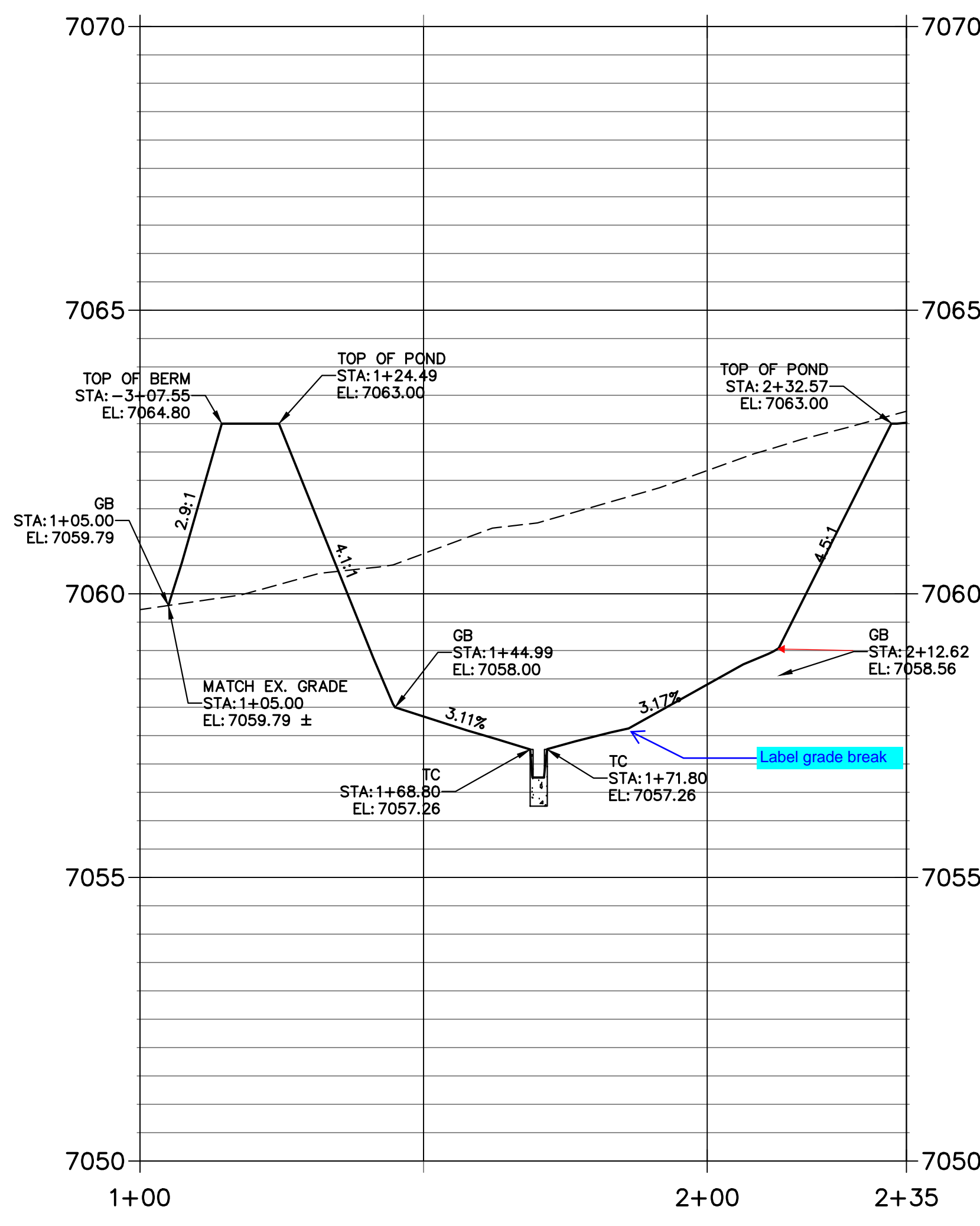
H-SCALE 1"=20'
V-SCALE 1"=2'
DATE 05/15/23
DESIGNED BY QNL
DRAWN BY QNL
CHECKED BY

SHEET 5 OF 13
JOB NO. 25251.00

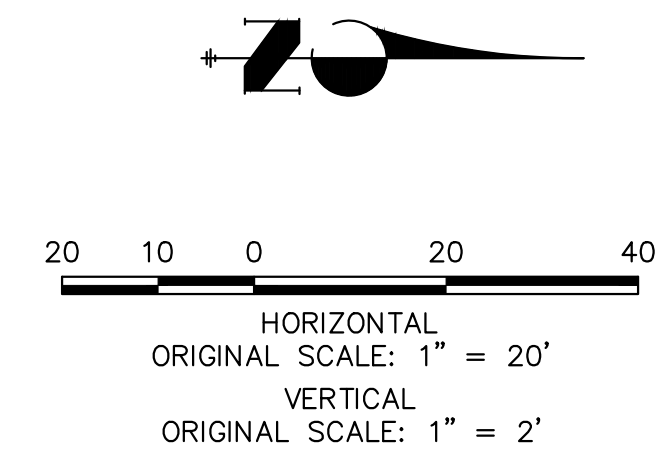
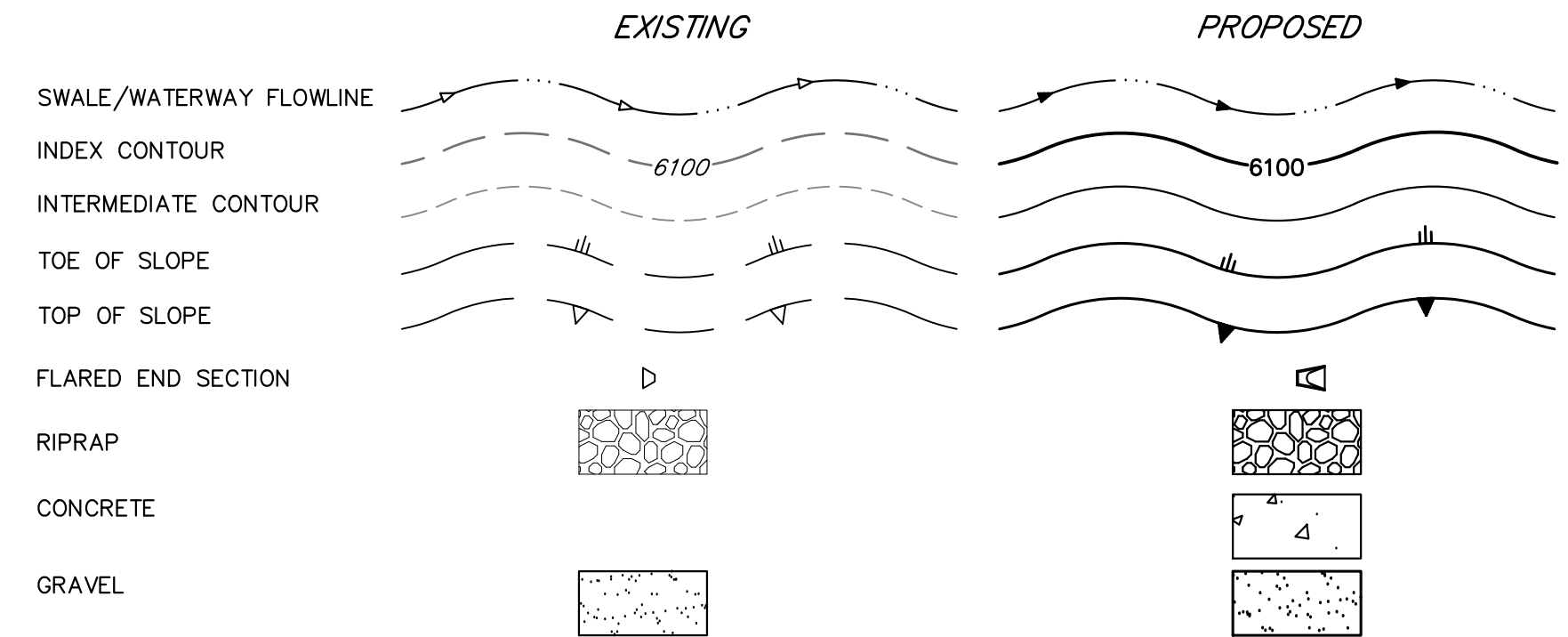
Per DCMv1 11.3.3, adjust pond min. width of 12ft at top of embankment. unresolved.
 A Deviation request must be submitted and approved for anything less than 12 ft



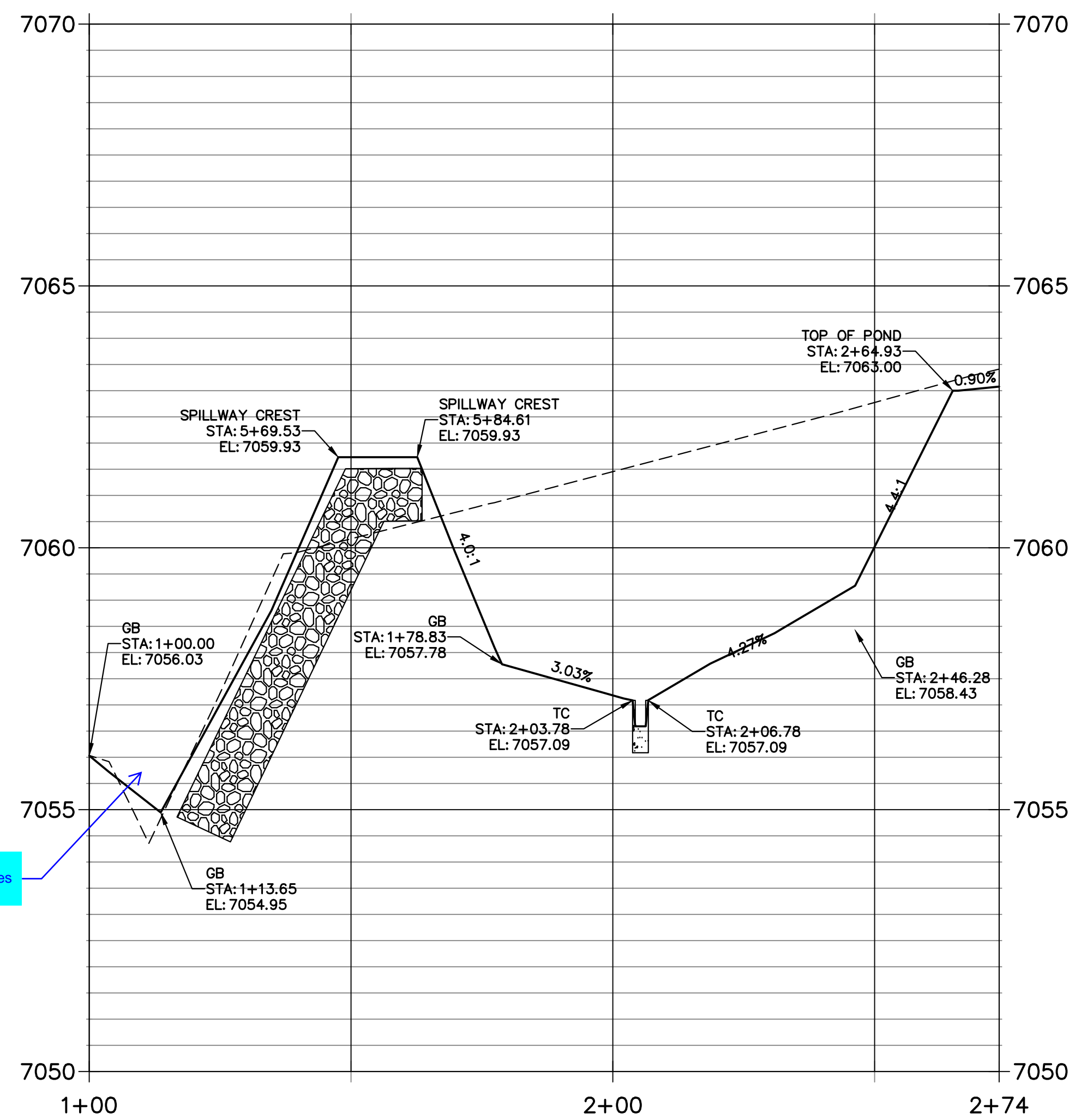
**POND CROSS SECTION A PROFILE
 STA 1+00.00 TO 2+35.14**



LAYER LINETYPE LEGEND



**POND CROSS SECTION B PROFILE
 STA 1+00.00 TO 2+73.77**

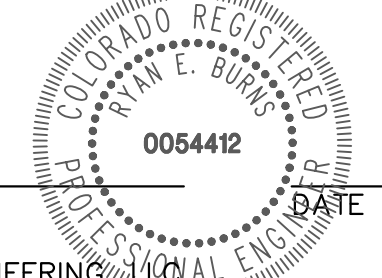


What happens to this swale if 100-yr flow comes over spillway?

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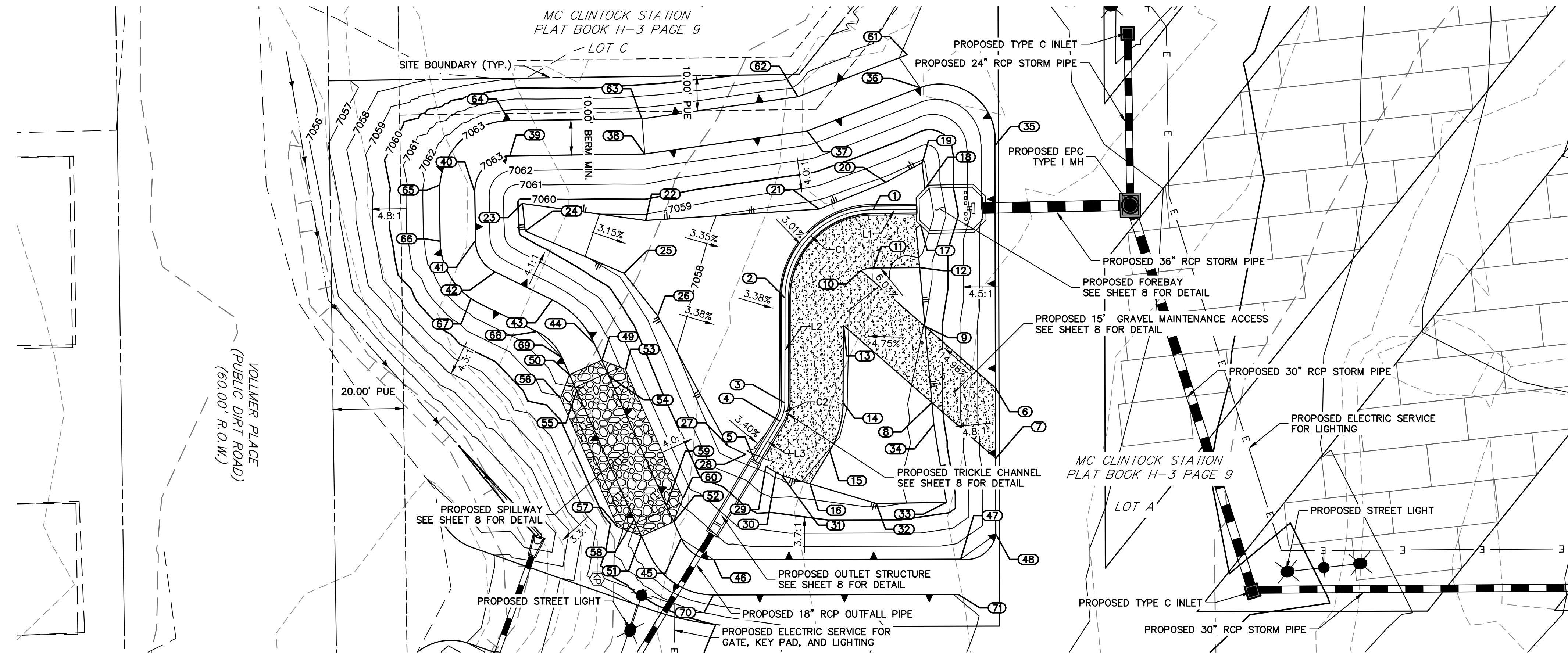
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BY	DATE	No.	REVISION

VOLLMER RV STORAGE
 POND PLANS
 SHEET 6 OF 13
 JOB NO. 25251.00



Know what's below.
Call before you dig.

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LINE TABLE		
LINE	BEARING	DISTANCE
L1	S00°25'00"E	12.38'
L2	S89°53'39"E	29.78'
L3	S58°52'17"E	13.39'

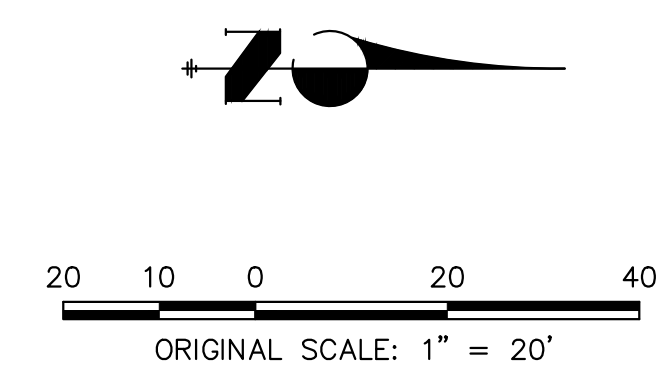
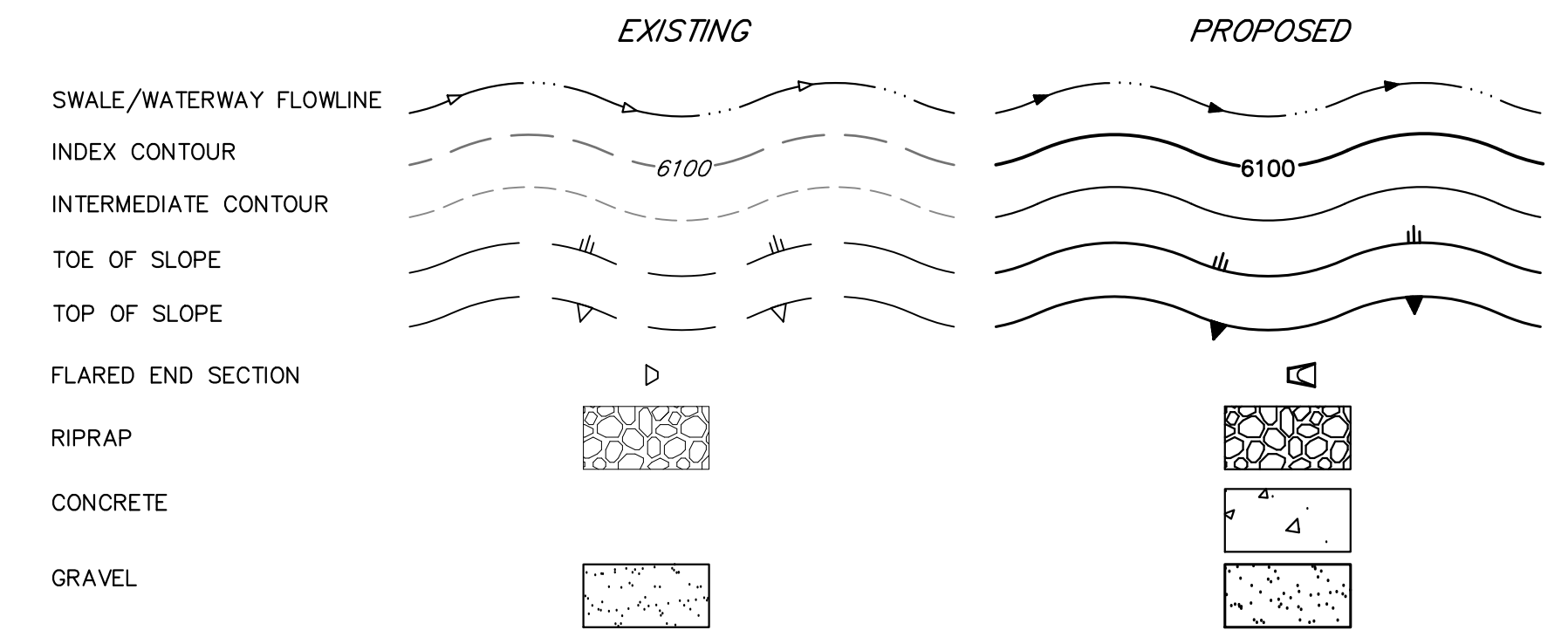
CURVE TABLE				
CURVE	DELTA	RADIUS	LENGTH	CHORD
C1	89°28'39"	25.00'	39.04'	S45°09'20"E 35.19'
C2	31°01'22"	10.00'	5.41'	S74°22'58"E 5.35'

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
1	TRICKLE CHANNEL	N: 412949.04 E: 234999.68	7056.90
2	TRICKLE CHANNEL	N: 412924.22 E: 235024.63	7056.71
3	TRICKLE CHANNEL	N: 412924.17 E: 235054.41	7056.56
4	TRICKLE CHANNEL	N: 412922.73 E: 235059.56	7056.53
5	TRICKLE CHANNEL	N: 412915.80 E: 235071.02	7057.57
6	MAINT. ROAD/ TOP	N: 412983.70 E: 235050.05	7062.97
7	MAINT. ROAD/ TOP	N: 412983.89 E: 235070.14	7063.00
8	MAINT. ROAD/ TOE	N: 412965.82 E: 235054.35	7059.40
9	MAINT. ROAD/ TOE	N: 412963.86 E: 235032.72	7059.02
10	MAINT. ROAD	N: 412945.77 E: 235016.91	7057.77
11	MAINT. ROAD	N: 412949.16 E: 235016.18	7057.86
12	MAINT. ROAD	N: 412962.36 E: 235016.08	7058.17
13	MAINT. ROAD	N: 412940.71 E: 235032.40	7057.92
14	MAINT. ROAD	N: 412940.67 E: 235054.44	7057.94
15	MAINT. ROAD	N: 412936.85 E: 235068.09	7058.04
16	MAINT. ROAD	N: 412931.25 E: 235077.36	7058.15
17	TOE/ FOREBAY	N: 412962.57 E: 235003.99	7057.52
18	TOE/ FOREBAY	N: 412963.85 E: 234993.66	7057.65
19	TOE	N: 412963.02 E: 234986.36	7057.82
20	TOE	N: 412952.80 E: 234991.86	7057.60
21	TOE	N: 412933.89 E: 234999.48	7057.42
22	TOE	N: 412884.67 E: 235002.69	7058.59
23	TOE	N: 412849.84 E: 234997.90	7059.68
24	TOE	N: 412850.60 E: 235005.67	7059.60

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
25	TOE	N: 412878.55 E: 235017.84	7058.63
26	TOE	N: 412888.10 E: 235029.68	7058.27
27	TOE	N: 412908.06 E: 235066.61	7057.33
28	TOE	N: 412913.13 E: 235069.01	7057.31
29	TOE/ MAINT. ROAD	N: 412918.83 E: 235072.45	7057.61
30	TOE/ MAINT. ROAD	N: 412921.68 E: 235074.17	7057.75
31	TOE/ MAINT. ROAD	N: 412923.29 E: 235075.00	7057.79
32	TOE	N: 412949.99 E: 235082.91	7058.74
33	TOE	N: 412969.95 E: 235082.65	7059.34
34	TOE	N: 412966.38 E: 235060.54	7059.39
35	TOP	N: 412983.68 E: 234981.39	7063.00
36	TOP	N: 412962.47 E: 234965.04	7063.00
37	TOP	N: 412930.45 E: 234977.36	7063.00
38	TOP	N: 412884.47 E: 234983.87	7063.00
39	TOP	N: 412846.18 E: 234984.40	7063.00
40	TOP	N: 412836.32 E: 234994.53	7063.00
41	TOP	N: 412836.50 E: 235008.45	7063.00
42	TOP	N: 412842.11 E: 235017.31	7063.00
43	TOP	N: 412858.28 E: 235025.21	7063.00
44	TOP	N: 412870.14 E: 235037.50	7063.00
45	TOP	N: 412894.83 E: 235092.94	7063.00
46	TOP	N: 412903.99 E: 235098.88	7063.00
47	TOP	N: 412973.95 E: 235098.73	7063.00
48	TOP	N: 412983.94 E: 235091.70	7063.00

POINT TABULATION			
ID NO.	DESCRIPTION	NORTHING/EASTING	ELEVATION
49	SPILLWAY/ TOP	N: 412872.28 E: 235042.31	7063.00
50	SPILLWAY/ TOP	N: 412863.15 E: 235046.38	7063.00
51	SPILLWAY/ TOP	N: 412883.55 E: 235092.20	7063.00
52	SPILLWAY/ TOP	N: 412892.69 E: 235088.13	7063.00
53	SPILLWAY CREST	N: 412878.99 E: 235044.89	7061.73
54	SPILLWAY CREST	N: 412874.35 E: 235046.95	7061.73
55	SPILLWAY CREST	N: 412865.21 E: 235051.02	7061.73
56	SPILLWAY	N: 412860.57 E: 235053.09	7060.82
57	SPILLWAY	N: 412876.85 E: 235089.63	7060.60
58	SPILLWAY CREST	N: 412881.49 E: 235087.56	7061.73
59	SPILLWAY CREST	N: 412890.62 E: 235083.49	7061.73
60	SPILLWAY CREST	N: 412895.26 E: 235081.43	7061.73
61	BERM	N: 412958.89 E: 234955.70	7063.04
62	BERM	N: 412927.92 E: 234967.82	7062.99
63	BERM	N: 412883.70 E: 234973.88	7063.00
64	BERM	N: 412846.05 E: 234974.40	7063.00
65	BERM	N: 412826.37 E: 234992.70	7063.00
66	BERM	N: 412826.50 E: 235008.58	7063.00
67	BERM	N: 412835.27 E: 235024.87	7063.00
68	BERM	N: 412853.89 E: 235034.19	7063.00
69	BERM	N: 412861.00 E: 235041.57	7063.00
70	BERM	N: 412904.01 E: 235108.88	7063.00
71	BERM	N: 412973.24 E: 235108.73	7063.02

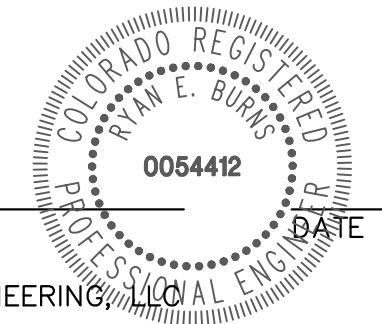
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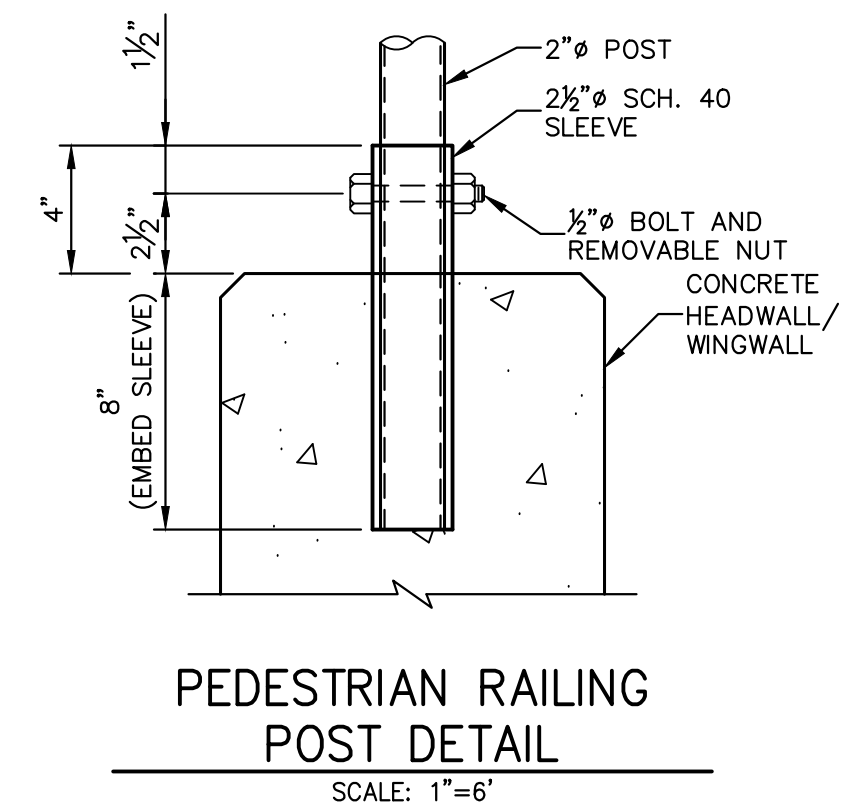
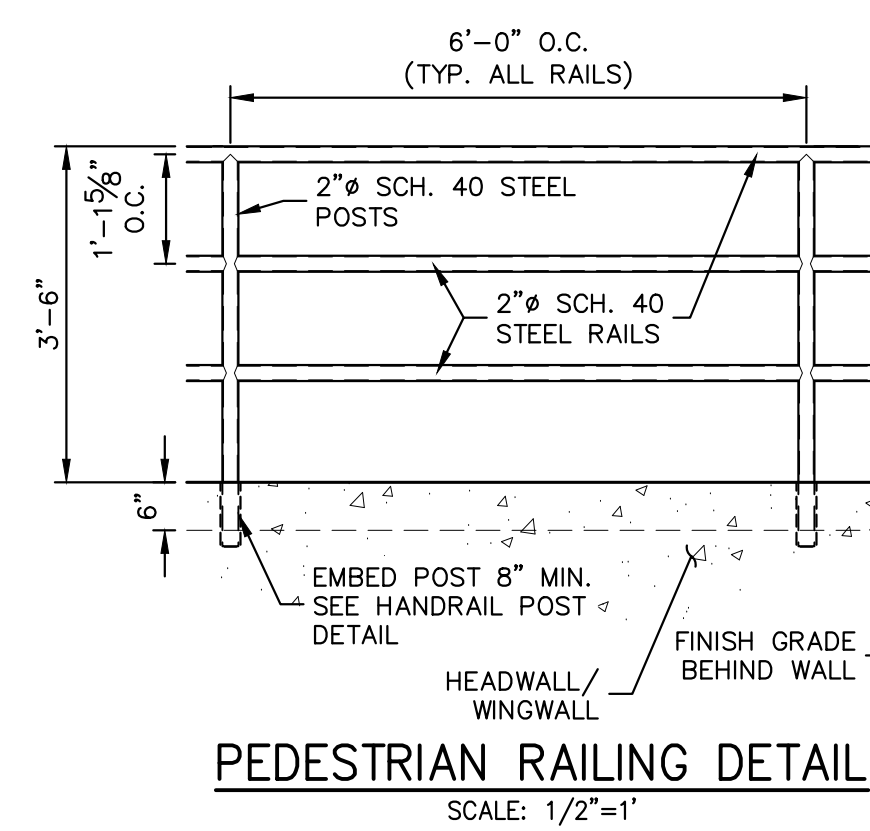
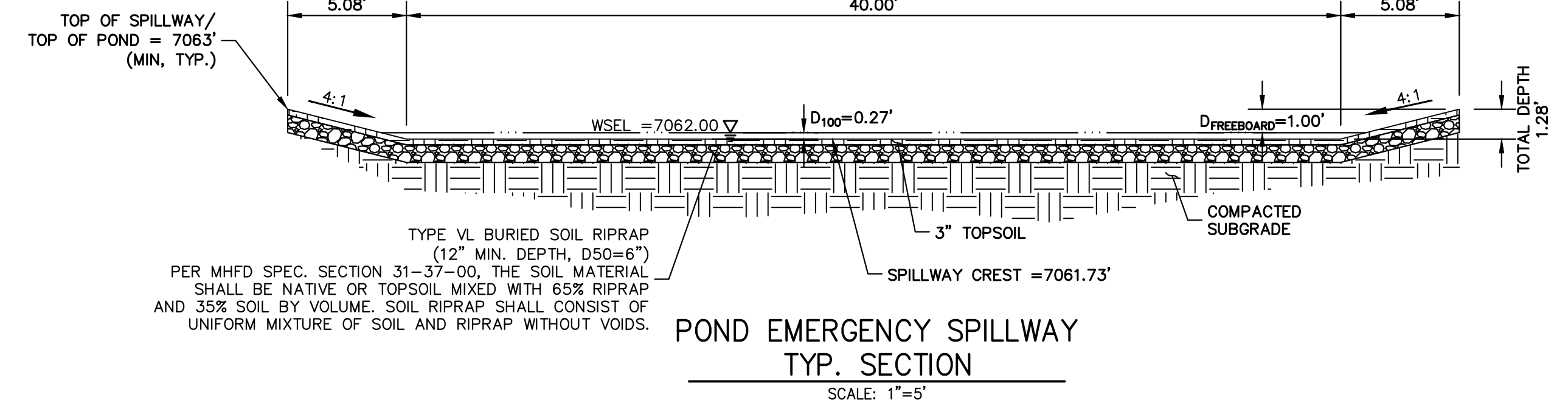
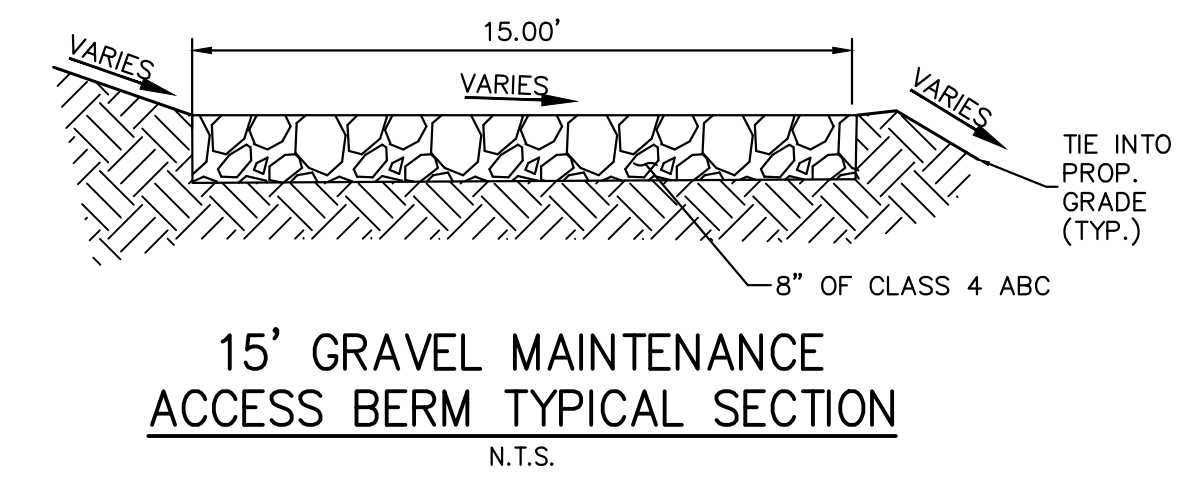
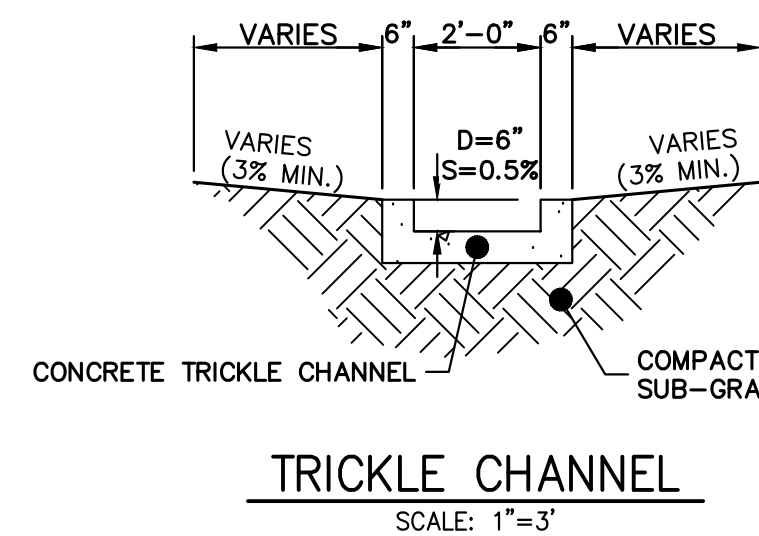
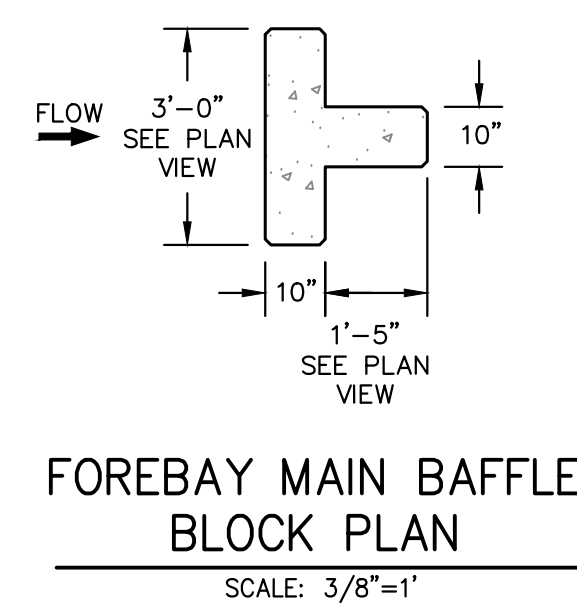
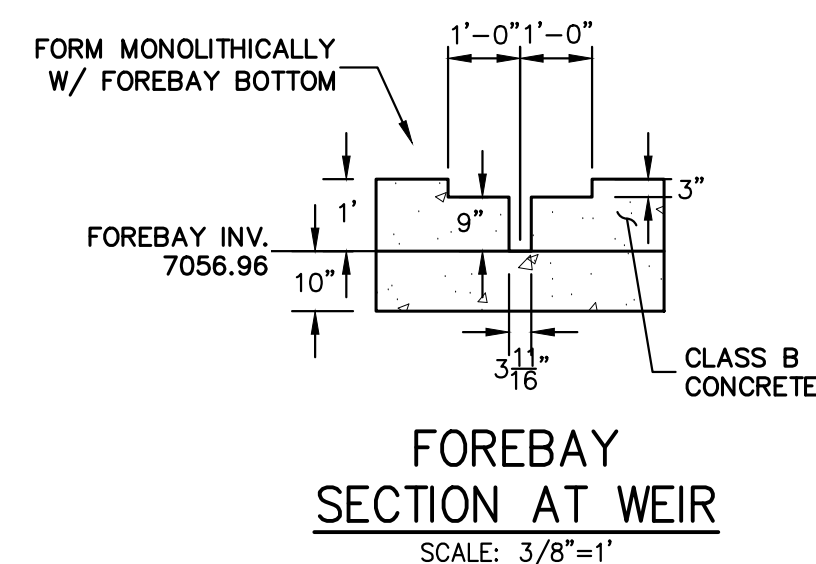
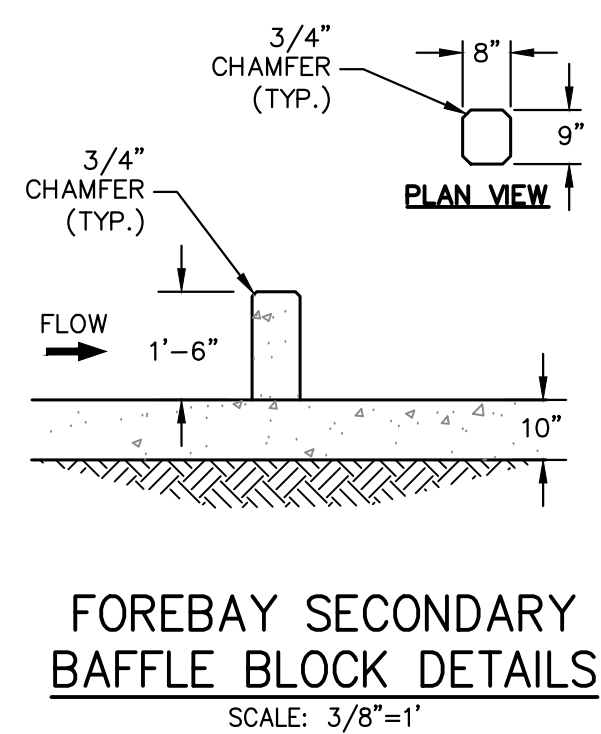
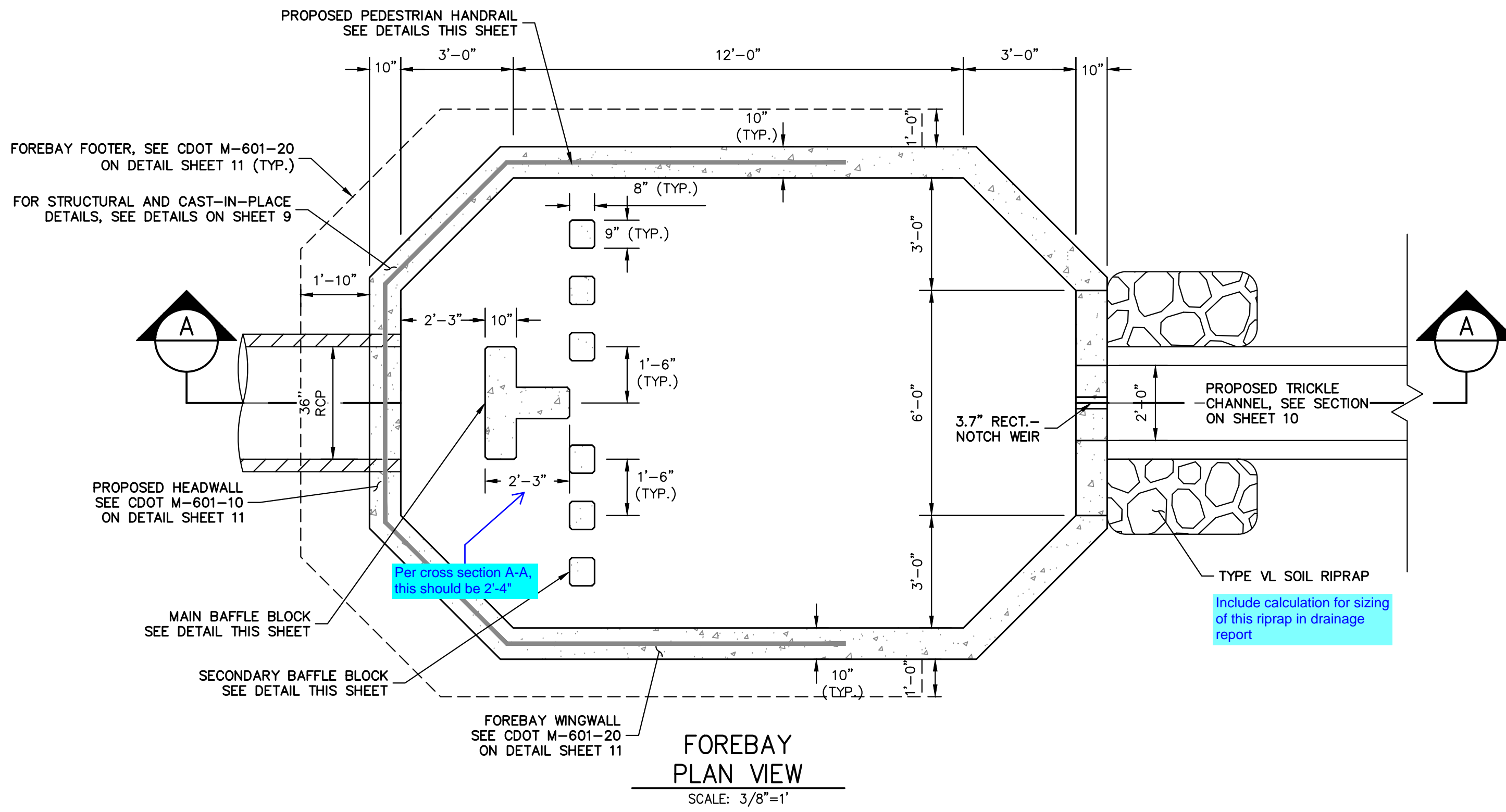
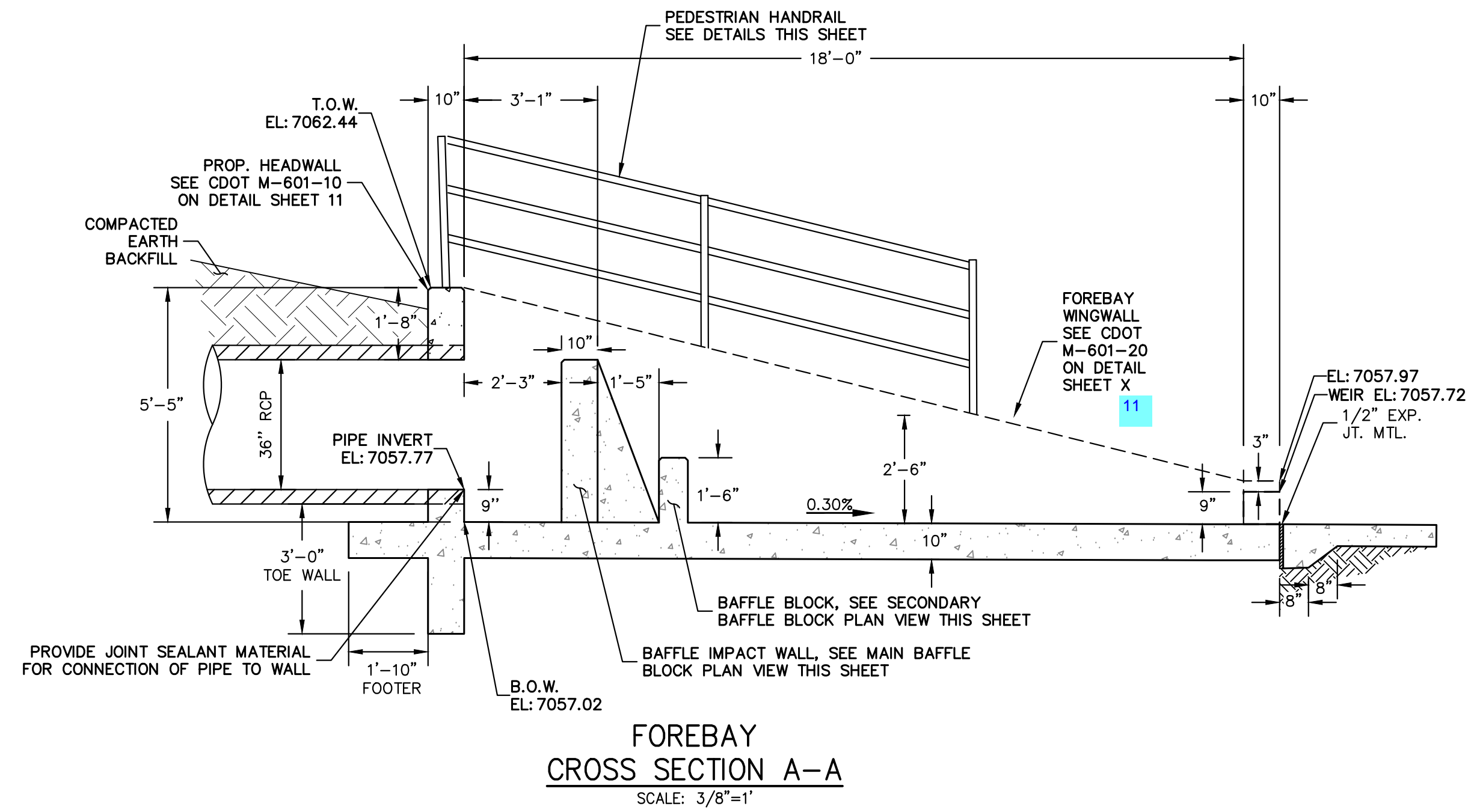
ENGINEER'S STATEMENT
THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS PLANS.

RYAN E. BURNS, P.E.
COLORADO P.E. 0054412
FOR AND ON BEHALF OF JR ENGINEERING



BY	DATE	No.	REVISION	H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	VOLLMER RV STORAGE	POND PLANS

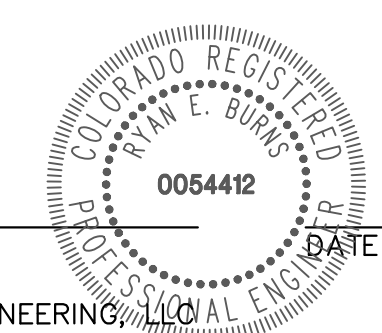
SHEET 7 OF 13
JOB NO. 25251.00



Know what's below.
Call before you dig.

ENGINEER'S STATEMENT

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UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE AGENCIES, OR ENGINEERING APPROVES THEIR USE, THESE DRAWINGS ARE DESIGNATED BY WRITTEN AUTHORIZATION.

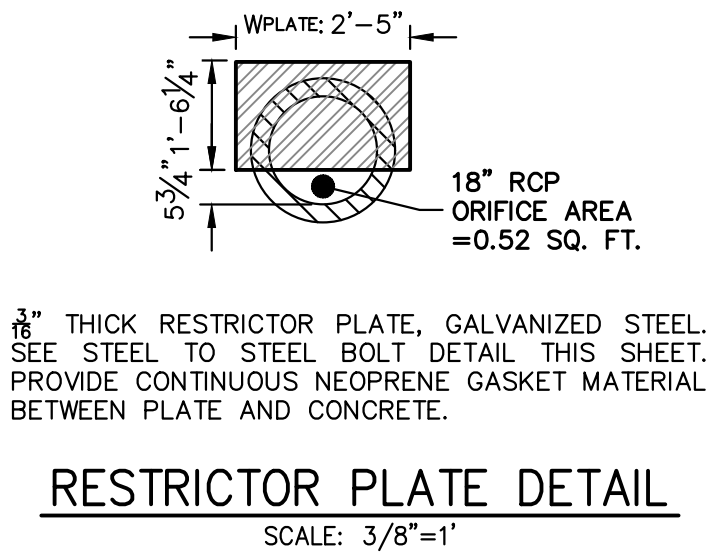
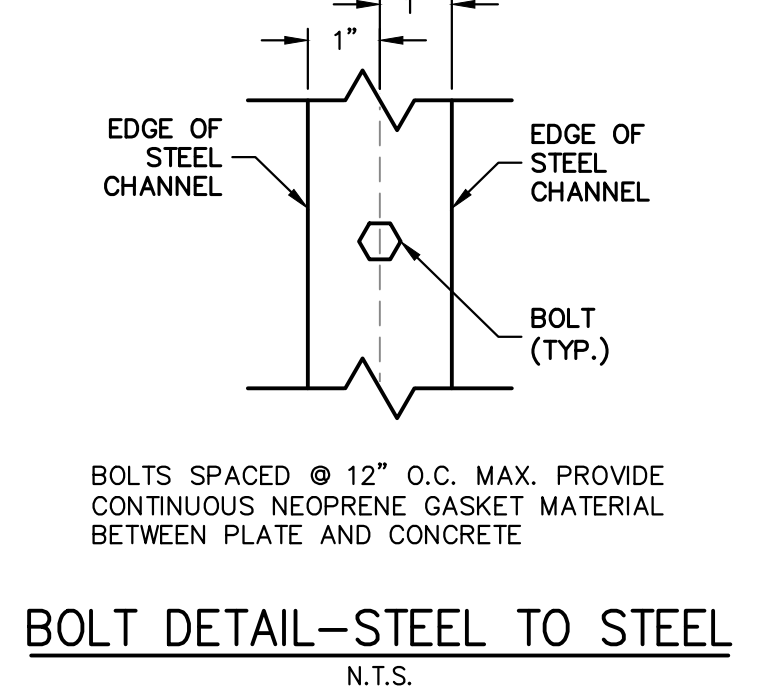
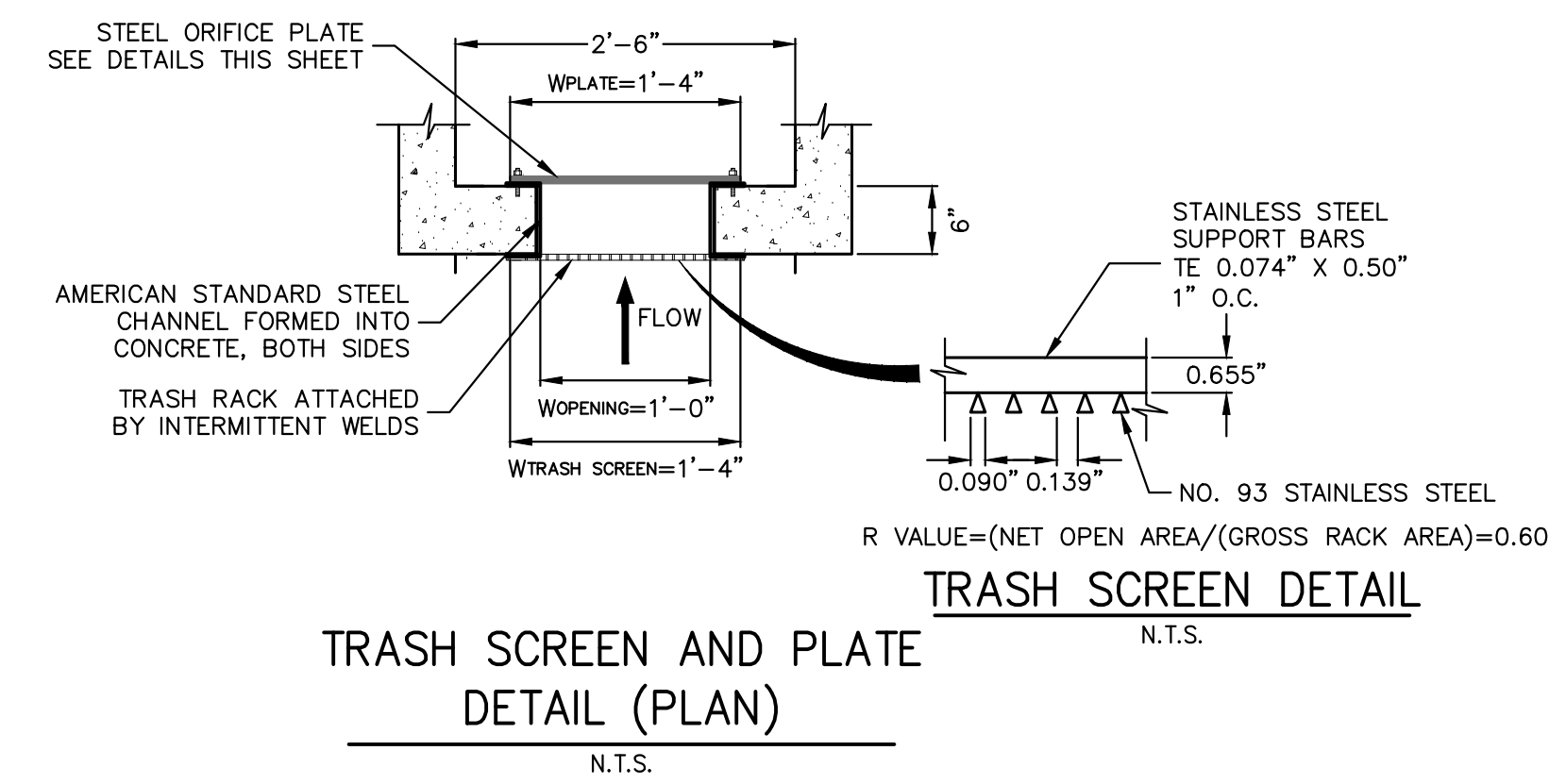
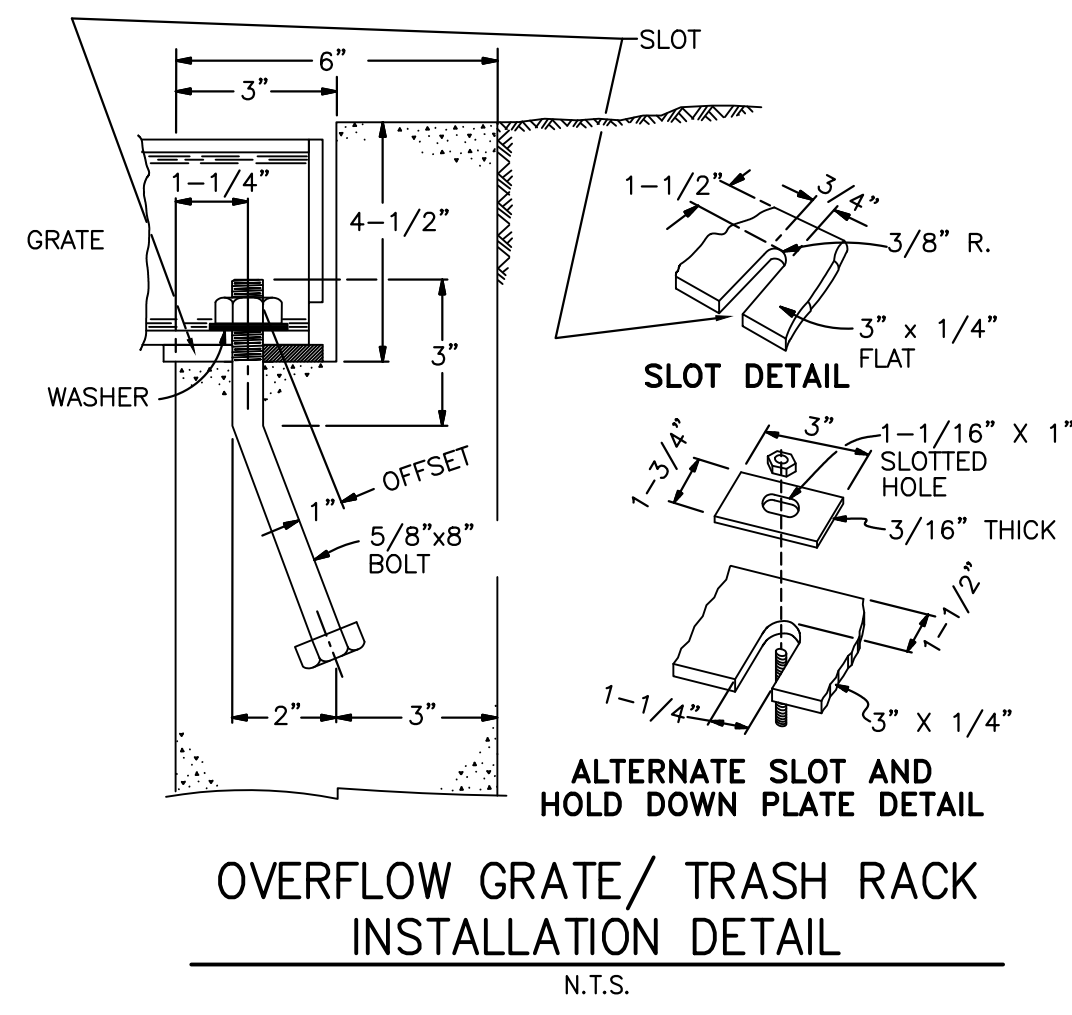
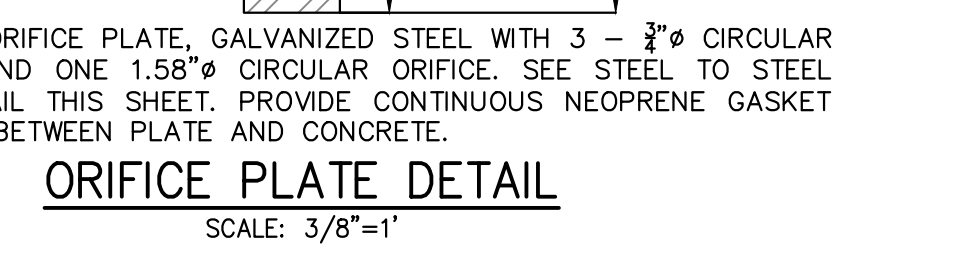
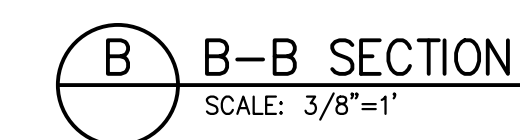
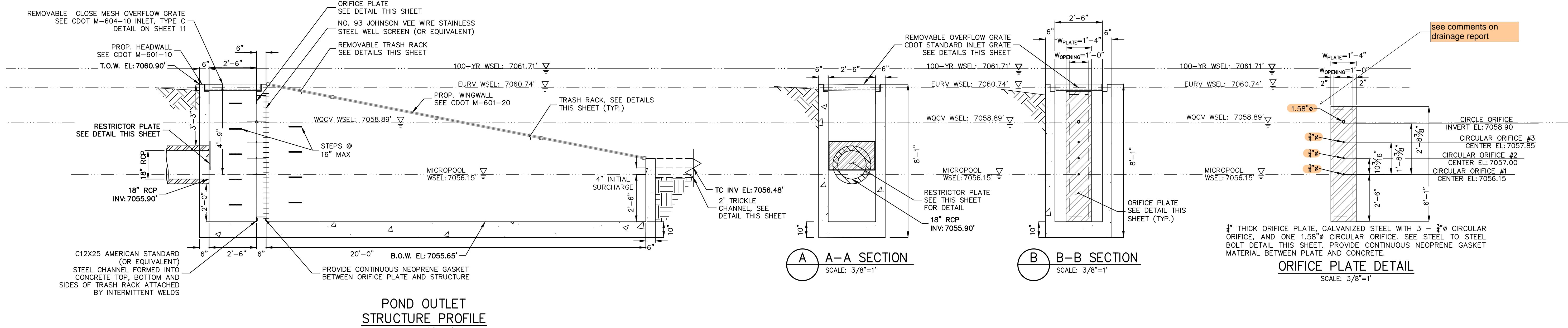
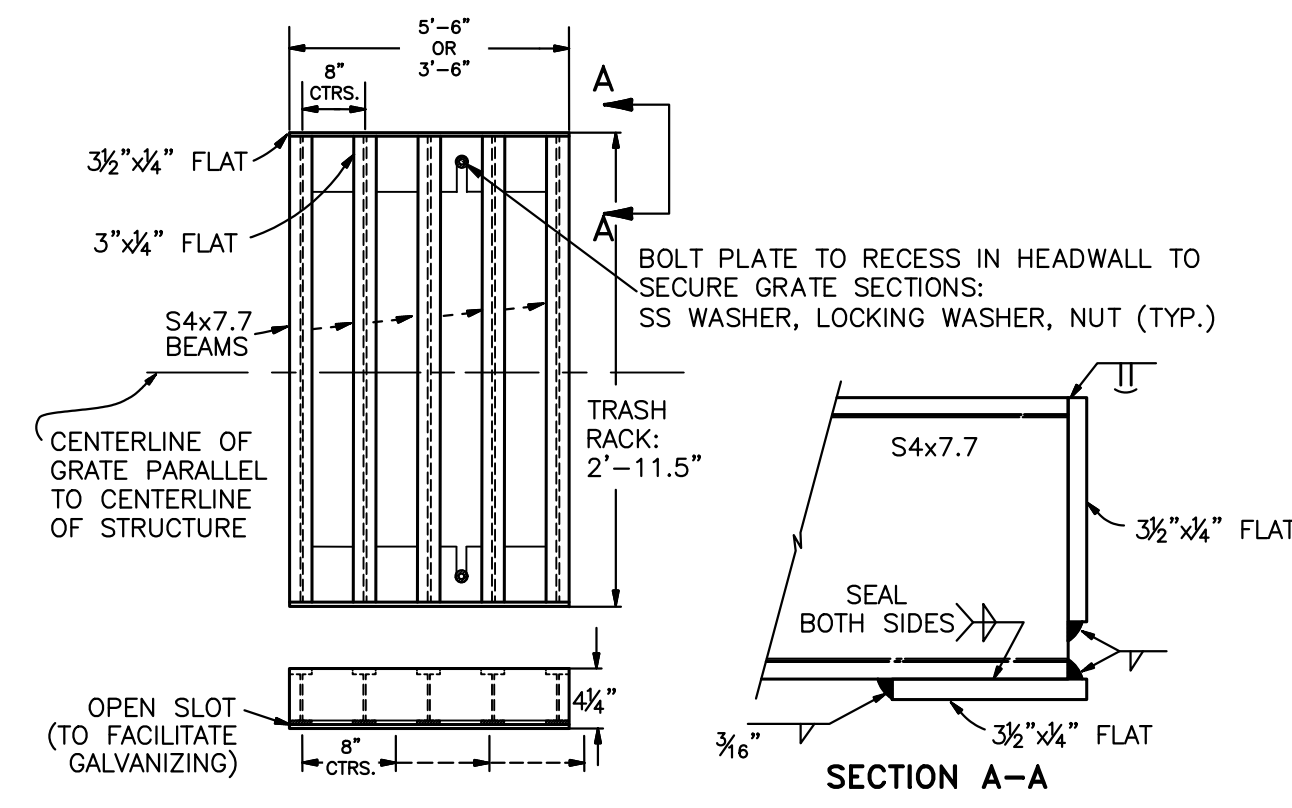
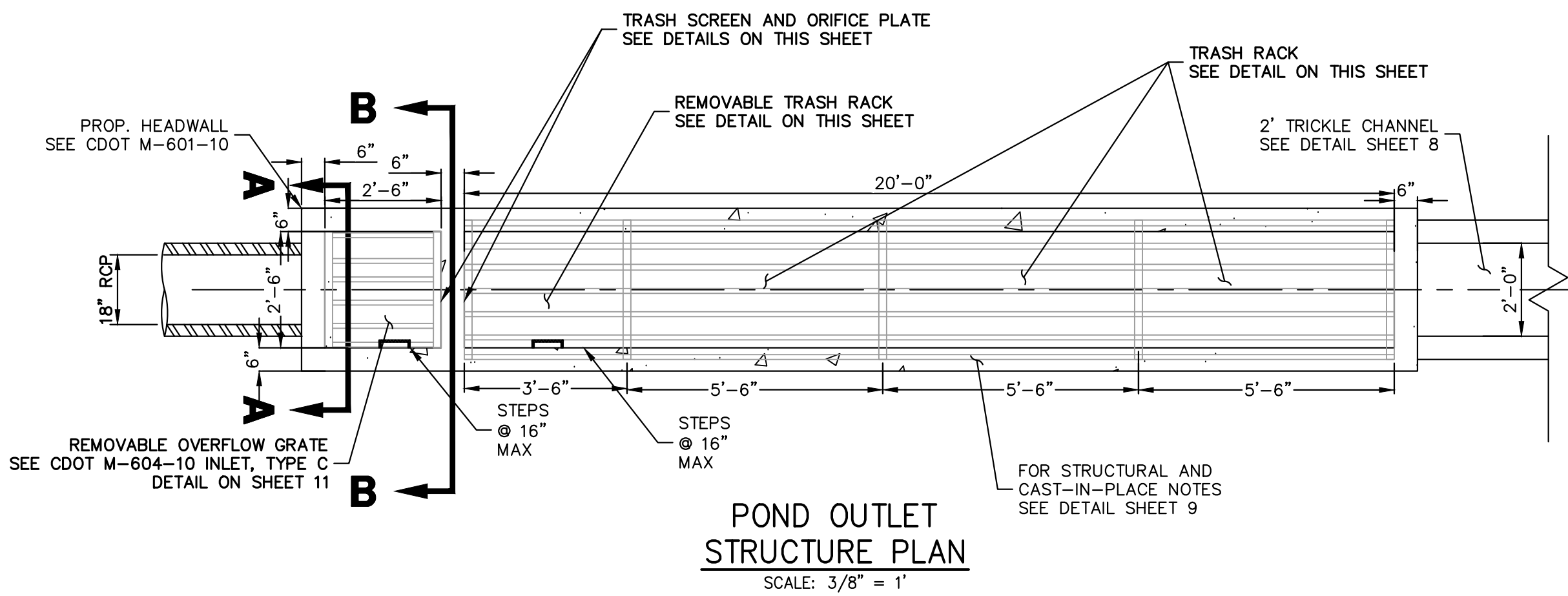
PREPARED FOR
SCOTT BELKNAP
3603 FIRST LIGHT DRIVE
CASTLE ROCK, CO 80109
(719) 322-3556
SCOTT.BELKNAP@YAHOO.COM

J.R. ENGINEERING
A Westman Company
Central 303-740-9888 • Colorado Springs 719-583-2583
Fort Collins 970-491-9888 • www.jrengineering.com

NO.	REVISION	BY	DATE

H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
VARIES	VARIES	05/15/23	APL	APL	

VOLLMER RV STORAGE
POND DETAILS



ENGINEER'S STATEMENT

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RYAN E. BURNS, P.E.
COLORADO P.E. 0054412
FOR AND ON BEHALF OF JR ENGINEERING

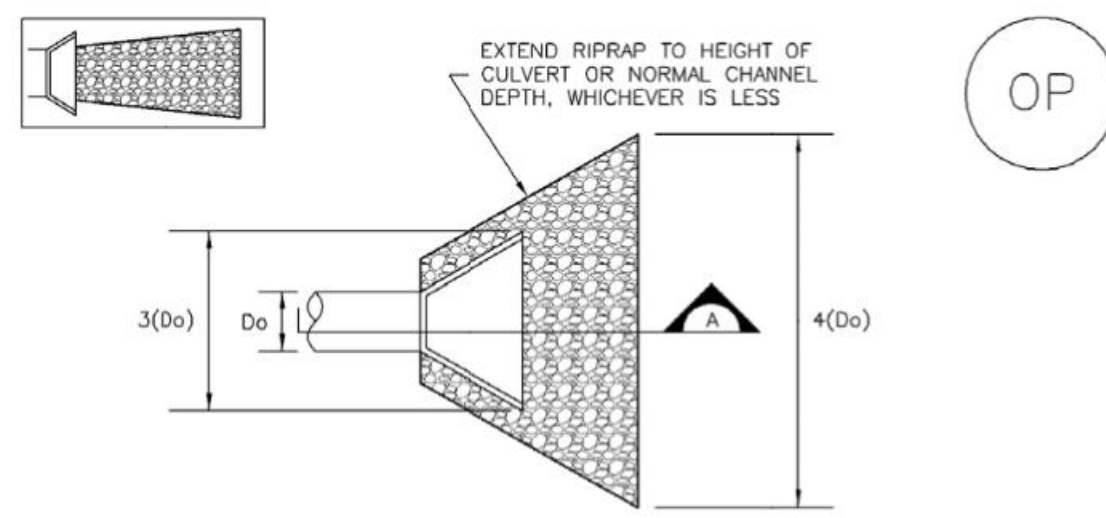
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0054412
DATE

UNTIL SUCH TIME AS THESE DRAWINGS ARE APPROVED BY THE APPROPRIATE REVIEWING AGENCIES, OR ENGINEERING APPROVES THEIR USE, THESE DRAWINGS ARE DESIGNATED BY WRITTEN AUTHORIZATION.	
PREPARED FOR	SCOTT BELKNAP 3603 FIRST LIGHT DRIVE CASTLE ROCK, CO 80109 (719)-322-3556 SCOTT.BELKNAP@YAHOO.COM
BY	DATE
No.	REVISION
H-SCALE	V-SCALE
DATE	DESIGNED BY
	DRAWN BY
	CHECKED BY
VOLLMER RV STORAGE	POND DETAILS
SHEET 9 OF 13	JOB NO. 25251.00

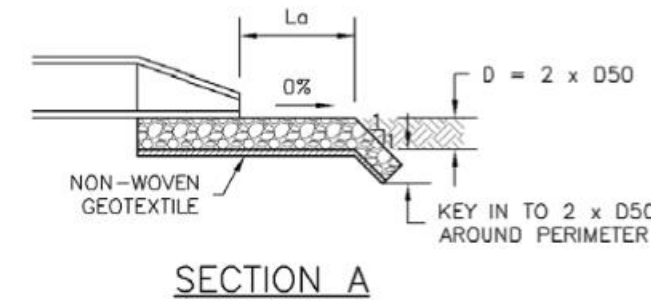


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EC-8 Temporary Outlet Protection (TOP)



TEMPORARY OUTLET PROTECTION PLAN



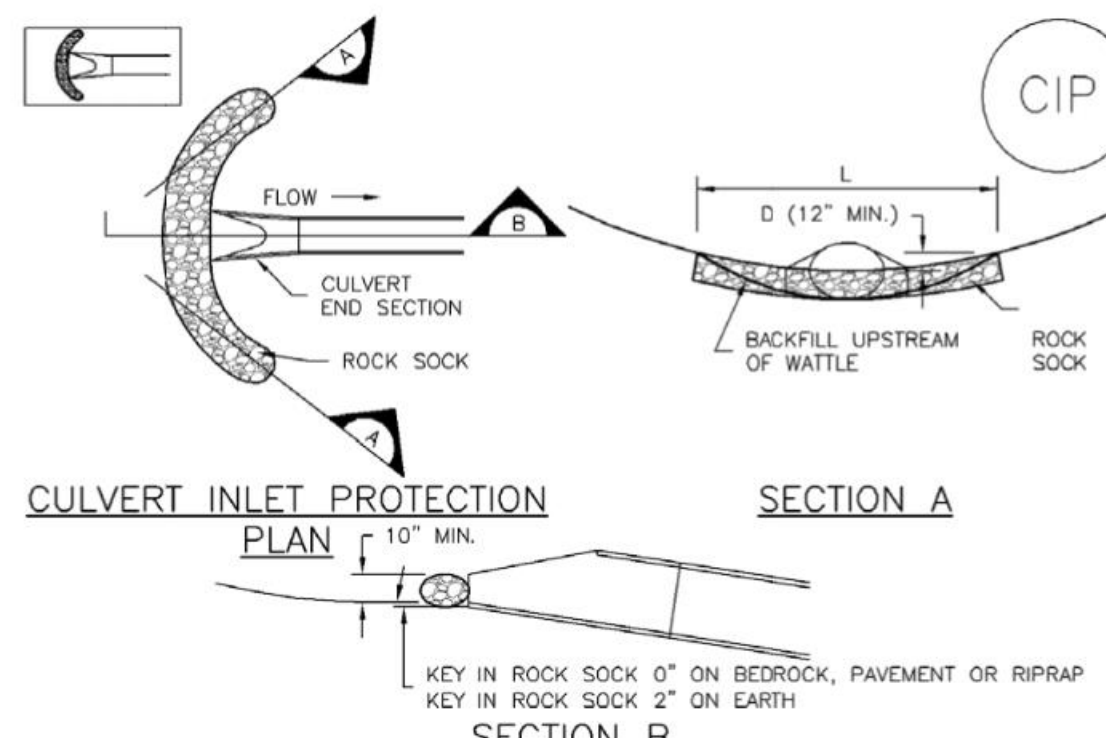
SECTION A

PIPE DIAMETER, Dp (INCHES)	DISCHARGE, Q (CFS)	APRON LENGTH, La (FT)	RIPRAP D50 MIN (INCHES)
8	2.5	5	4
	5	10	6
12	5	10	4
	10	13	6
	20	16	9
18	30	23	12
	40	26	16
	60	30	16
24	30	16	9
	40	26	9
	50	26	12
	60	30	16

OP-1. TEMPORARY OUTLET PROTECTION

TOP-2 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

Inlet Protection (IP) SC-6



CULVERT INLET PROTECTION PLAN

SECTION A

SECTION B

CIP-1. CULVERT INLET PROTECTION

CULVERT INLET PROTECTION INSTALLATION NOTES

- SEE PLAN VIEW FOR -LOCATION OF CULVERT INLET PROTECTION.
- SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINING DETAIL.

CULVERT INLET PROTECTION MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 1/2 THE HEIGHT OF THE ROCK SOCK.
- CULVERT INLET PROTECTION SHALL REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

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

August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 IP-7

Temporary Outlet Protection (TOP) EC-8

TEMPORARY OUTLET PROTECTION INSTALLATION NOTES

- SEE PLAN VIEW FOR -LOCATION OF OUTLET PROTECTION. -DIMENSIONS OF OUTLET PROTECTION.
- DETAIL IS INTENDED FOR PIPES WITH SLOPE $\leq 10\%$. ADDITIONAL EVALUATION OF RIPRAP SIZING AND OUTLET PROTECTION DIMENSIONS REQUIRED FOR STEEPER SLOPES.
- TEMPORARY OUTLET PROTECTION INFORMATION IS FOR OUTLETS INTENDED TO BE UTILIZED LESS THAN 2 YEARS.

TEMPORARY OUTLET PROTECTION INSPECTION AND MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

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

(DETAILS ADAPTED FROM AURORA, COLORADO AND PREVIOUS VERSION OF VOLUME 1, NOT AVAILABLE IN AUTOCAD)

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

SC-6 Inlet Protection (IP)

GENERAL INLET PROTECTION INSTALLATION NOTES

- SEE PLAN VIEW FOR: -LOCATION OF INLET PROTECTION. -TYPE OF INLET PROTECTION (P.1, IP.2, IP.3, IP.4, IP.5, IP.6)
- INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (TYPICALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.
- MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

INLET PROTECTION MAINTENANCE NOTES

- INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
- SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS. TYPICALLY WHEN STORAGE VOLUME REACHES 50% OF CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR 1/4 OF THE HEIGHT FOR STRAW BALES.
- INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.
- WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

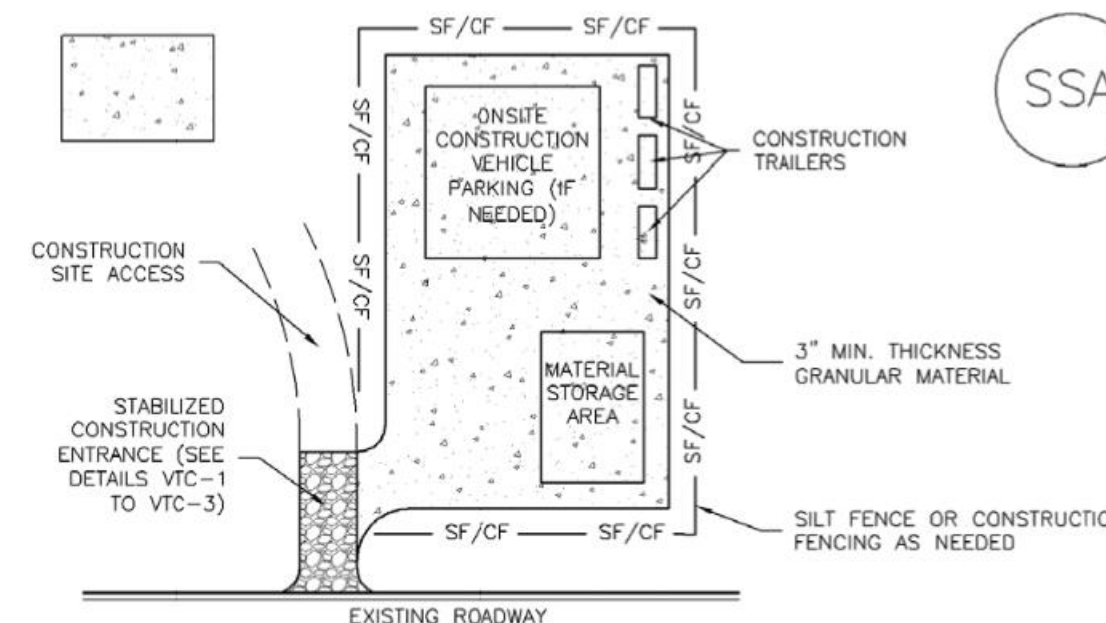
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF INLET PROTECTION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY PROPRIETARY INLET PROTECTION METHODS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY INLET PROTECTION. HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET PROTECTION IS ACCEPTABLE.

August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 IP-8

Stabilized Staging Area (SSA) SM-6



SSA-1. STABILIZED STAGING AREA

STABILIZED STAGING AREA INSTALLATION NOTES

- SEE PLAN VIEW FOR -LOCATION OF STAGING AREA(S). -CONTRACTOR MAY ADJUST LOCATION AND SIZE OF STAGING AREA WITH APPROVAL FROM THE LOCAL JURISDICTION.
- STABILIZED STAGING AREA SHOULD BE APPROPRIATE FOR THE NEEDS OF THE SITE. OVERSIZING RESULTS IN A LARGER AREA TO STABILIZE FOLLOWING CONSTRUCTION.
- STAGING AREA SHALL BE STABILIZED PRIOR TO OTHER OPERATIONS ON THE SITE.
- THE STABILIZED STAGING AREA SHALL CONSIST OF A MINIMUM 3" THICK GRANULAR MATERIAL.
- UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
- ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING.

STABILIZED STAGING AREA MAINTENANCE NOTES

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

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

include outlet protection standard detail



SM-6 Stabilized Staging Area (SSA)

STABILIZED STAGING AREA MAINTENANCE NOTES

- STABILIZED STAGING AREA SHALL BE ENLARGED IF NECESSARY TO CONTAIN PARKING, STORAGE, AND UNLOADING/LOADING OPERATIONS.
- 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.
- MANY MUNICIPALITIES 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.
- MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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

SSA-4 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 November 2010

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PREPARED FOR
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 3603 FIRST LIGHT DRIVE
 CASTLE ROCK, CO 80109
 (719)-322-3556
 SCOTT.BELKNAP@YAHOO.COM

J.R. ENGINEERING
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DATE	BY	REVISION	No.	H-SCALE	V-SCALE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY
				N/A	N/A	05/15/23	APL	APL	

VOLLMER RV STORAGE
 GEC DETAILS

ENGINEER'S STATEMENT
 STANDARD DETAILS SHOWN WERE REVIEWED ONLY AS TO THEIR APPLICATION ON THIS PROJECT

RYAN E. BURNS, P.E.
 COLORADO P.E. 0054412
 FOR AND ON BEHALF OF JR ENGINEERING

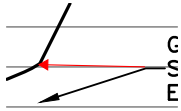
0054412

SHEET 13 OF 13
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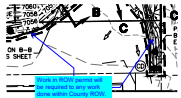
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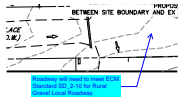
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Callout (14)



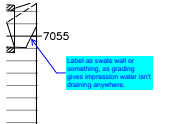
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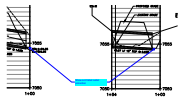
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Roadway will need to meet ECM Standard SD_2-10 for Rural Gravel Local Roadway.



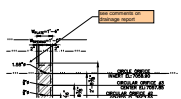
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Label as swale wall or something, as grading gives impression water isn't draining anywhere.



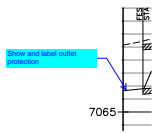
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Show and label outlet protection



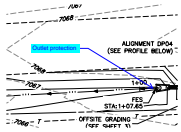
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see comments on drainage report



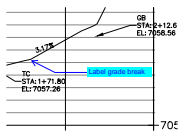
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Show and label outlet protection



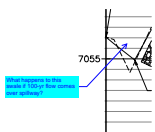
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Outlet protection



Subject: Callout
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Space:

Label grade break



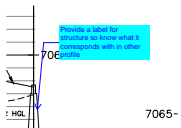
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Author: CDurham
Date: 6/6/2023 4:32:00 PM
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What happens to this swale if 100-yr flow comes over spillway?



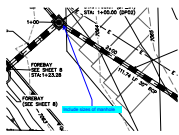
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Space:

Grading plan does not indicate an elevation 7068 on this side of area inlet



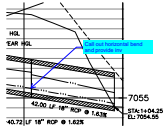
Subject: Callout
Page Label: [4] 4 DP_01_02
Author: CDurham
Date: 6/7/2023 11:28:47 AM
Status:
Color: ■
Layer:
Space:

Provide a label for structure so know what it corresponds with in other profile



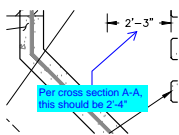
Subject: Callout
Page Label: [4] 4 DP_01_02
Author: CDurham
Date: 6/7/2023 11:29:14 AM
Status:
Color: ■
Layer:
Space:

Include sizes of manhole



Subject: Callout
Page Label: [5] 5 Pond Outfall _ DP_03_04
Author: CDurham
Date: 6/7/2023 11:32:28 AM
Status:
Color: ■
Layer:
Space:

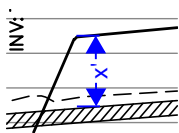
Call out horizontal bend and provide inv



Subject: Callout
Page Label: [6] 6 PD01
Author: CDurham
Date: 6/7/2023 11:52:37 AM
Status:
Color: ■
Layer:
Space:

Per cross section A-A, this should be 2'-4"

Dimension (1)



Subject: Dimension
Page Label: [5] 5 Pond Outfall _ DP_03_04
Author: CDurham
Date: 6/6/2023 2:52:39 PM
Status:
Color: ■
Layer:
Space:

x'

Engineer (1)

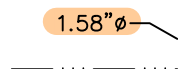


Subject: Engineer
Page Label: 1
Author: dotprete
Date: 6/4/2023 4:26:00 PM
Status:
Color: ■
Layer:
Space:

Per DCMv1 11.3.3, adjust pond design to include a min. width of 12ft at top of embankment. unresolved.

A Deviation request must be submitted and approved for anything less than 12 ft

Highlight (4)



Subject: Highlight
Page Label: [7] 7 PD02
Author: dotprete
Date: 6/6/2023 3:57:25 PM
Status:
Color: ■
Layer:
Space:



Subject: Highlight
 Page Label: [7] 7 PD02
 Author: dotprete
 Date: 6/6/2023 3:57:27 PM
 Status:
 Color: ■
 Layer:
 Space:



Subject: Highlight
 Page Label: [7] 7 PD02
 Author: dotprete
 Date: 6/6/2023 3:57:28 PM
 Status:
 Color: ■
 Layer:
 Space:



Subject: Highlight
 Page Label: [7] 7 PD02
 Author: dotprete
 Date: 6/6/2023 3:57:30 PM
 Status:
 Color: ■
 Layer:
 Space:

Stormwater Comments Color (1)



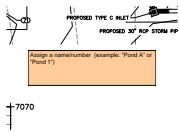
Subject: Stormwater Comments Color
 Page Label: [1] 1 CV01
 Author: dotprete
 Date: 6/6/2023 4:07:59 PM
 Status:
 Color: ■
 Layer:
 Space:

Text Box (12)



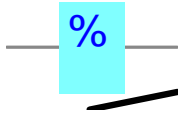
Subject: Text Box
 Page Label: 1
 Author: dotprete
 Date: 6/6/2023 4:16:44 PM
 Status:
 Color: ■
 Layer:
 Space:

include outlet protection standard detail

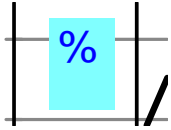


Subject: Text Box
 Page Label: 1
 Author: dotprete
 Date: 6/6/2023 4:18:39 PM
 Status:
 Color: ■
 Layer:
 Space:

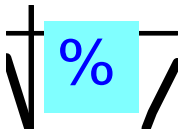
Assign a name/number (example: "Pond A" or "Pond 1")



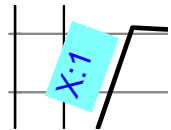
Subject: Text Box
Page Label: [5] 5 Pond Outfall _ DP_03_04 %
Author: CDurham
Date: 6/6/2023 4:23:04 PM
Status:
Color: ■
Layer:
Space:



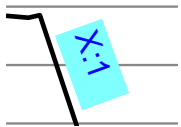
Subject: Text Box
Page Label: [5] 5 Pond Outfall _ DP_03_04 %
Author: CDurham
Date: 6/6/2023 4:23:11 PM
Status:
Color: ■
Layer:
Space:



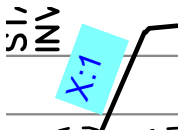
Subject: Text Box
Page Label: [5] 5 Pond Outfall _ DP_03_04 %
Author: CDurham
Date: 6/7/2023 11:42:52 AM
Status:
Color: ■
Layer:
Space:



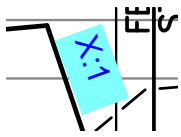
Subject: Text Box
Page Label: [5] 5 Pond Outfall _ DP_03_04 X:1
Author: CDurham
Date: 6/7/2023 11:44:47 AM
Status:
Color: ■
Layer:
Space:



Subject: Text Box
Page Label: [5] 5 Pond Outfall _ DP_03_04 X:1
Author: CDurham
Date: 6/7/2023 11:44:54 AM
Status:
Color: ■
Layer:
Space:

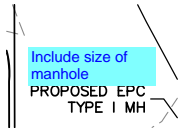


Subject: Text Box
Page Label: [5] 5 Pond Outfall _ DP_03_04 X:1
Author: CDurham
Date: 6/7/2023 11:45:05 AM
Status:
Color: ■
Layer:
Space:



Subject: Text Box
Page Label: [5] 5 Pond Outfall _ DP_03_04
Author: CDurham
Date: 6/7/2023 11:45:19 AM
Status:
Color: ■
Layer:
Space:

X:1



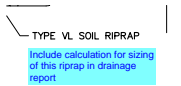
Subject: Text Box
Page Label: 1
Author: CDurham
Date: 6/7/2023 11:46:36 AM
Status:
Color: ■
Layer:
Space:

Include size of manhole

11

Subject: Text Box
Page Label: [6] 6 PD01
Author: CDurham
Date: 6/7/2023 11:49:29 AM
Status:
Color: ■
Layer:
Space:

11



Subject: Text Box
Page Label: [6] 6 PD01
Author: CDurham
Date: 6/7/2023 11:50:31 AM
Status:
Color: ■
Layer:
Space:

Include calculation for sizing of this riprap in drainage report