

Grading and Erosion Control Plan_V1.pdf Markup Summary

8/18/2022 4:12:10 PM (1)

Owner Signature

Add missing County Engineer Statement

Subject: Text Box
Page Label: [1] S9088-A-01-016
Author: eschoenheit
Date: 8/18/2022 4:12:10 PM
Status:
Color: ■
Layer:
Space:

Add missing County Engineer Statement

8/18/2022 4:12:13 PM (1)

Owner Signature

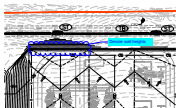
Add missing County Engineer Statement

Subject: Text Box
Page Label: [1] S9088-A-01-016
Author: eschoenheit
Date: 8/18/2022 4:12:13 PM
Status:
Color: ■
Layer:
Space:

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 Director's discretion.

County Engineer/ECM Administrator Date

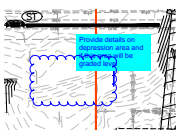
8/22/2022 7:33:25 AM (1)



Subject: Cloud+
Page Label: [2] S9088-A-01-017
Author: eschoenheit
Date: 8/22/2022 7:33:25 AM
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Denote wall heights

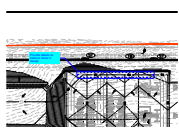
8/22/2022 9:04:41 AM (1)



Subject: Cloud+
Page Label: [2] S9088-A-01-017
Author: eschoenheit
Date: 8/22/2022 9:04:41 AM
Status:
Color: ■
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Space:

Provide details on depression area and if this area will be graded level

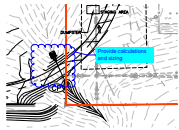
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Subject: Cloud+
Page Label: [2] S9088-A-01-017
Author: eschoenheit
Date: 8/22/2022 9:05:40 AM
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Provide details on inlets or show in design

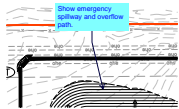
8/22/2022 9:06:07 AM (1)



Subject: Cloud+
Page Label: [2] S9088-A-01-017
Author: eschoenheit
Date: 8/22/2022 9:06:07 AM
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Space:

Provide calculations and sizing

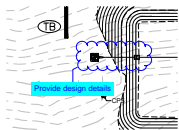
8/23/2022 1:43:23 PM (1)



Subject: Callout
Page Label: [2] S9088-A-01-017
Author: eschoenheit
Date: 8/23/2022 1:43:23 PM
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Show emergency spillway and overflow path.

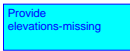
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Subject: Cloud+
Page Label: [2] S9088-A-01-017
Author: eschoenheit
Date: 8/23/2022 1:58:17 PM
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Provide design details

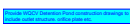
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Subject: Text Box
Page Label: [2] S9088-A-01-017
Author: eschoenheit
Date: 8/23/2022 1:58:37 PM
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Provide elevations-missing

8/23/2022 1:58:39 PM (1)



Subject: Text Box
Page Label: [2] S9088-A-01-017
Author: eschoenheit
Date: 8/23/2022 1:58:39 PM
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Provide WQCV Detention Pond construction drawings to include outlet structure. orifice plate etc.

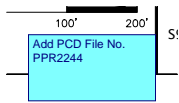
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Subject: Text Box
Page Label: [1] S9088-A-01-016
Author: dsdlaforce
Date: 8/23/2022 12:36:19 PM
Status:
Color: ■
Layer:
Space:

Add sheet index and Point of contacts.

8/23/2022 12:36:40 PM (1)



Subject: Text Box
Page Label: [1] S9088-A-01-016
Author: dsdlaforce
Date: 8/23/2022 12:36:40 PM
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Add PCD File No. PPR2244

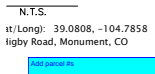
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Subject: Text Box
Page Label: [2] S9088-A-01-017
Author: dsdlaforce
Date: 8/23/2022 12:38:22 PM
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Add temporary and permanent BMP details

8/24/2022 6:15:27 AM (1)

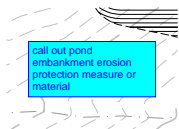


Subject: Text Box
Page Label: [1] S9088-A-01-016
Author: eschoenheit
Date: 8/24/2022 6:15:27 AM
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Color: ■
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Add parcel #s

We prepared under my direction and supervision, according to the criteria established by the County for design and specifications, and seal plans and specifications.

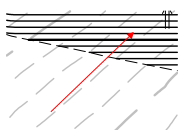
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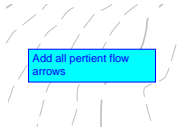
call out pond embankment erosion protection measure or material

8/24/2022 6:21:00 AM (1)



Subject: Arrow
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Author: eschoenheit
Date: 8/24/2022 6:21:00 AM
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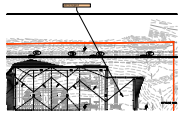
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Subject: Text Box
Page Label: [2] S9088-A-01-017
Author: eschoenheit
Date: 8/24/2022 6:21:55 AM
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Color: ■
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Space:

Add all pertinent flow arrows

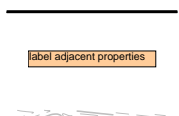
8/30/2022 2:22:22 PM (1)



Subject: Engineer
Page Label: [2] S9088-A-01-017
Author: dotprete
Date: 8/30/2022 2:22:22 PM
Status:
Color: ■
Layer:
Space:

add to legend

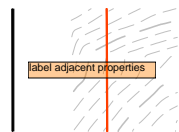
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Page Label: [2] S9088-A-01-017
Author: dotprete
Date: 8/30/2022 2:23:05 PM
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label adjacent properties

8/30/2022 2:23:10 PM (1)



Subject: Engineer
Page Label: [2] S9088-A-01-017
Author: dotprete
Date: 8/30/2022 2:23:10 PM
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label adjacent properties

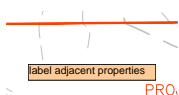
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label adjacent properties

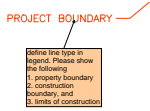
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label adjacent properties

8/30/2022 2:24:32 PM (1)



Subject: Engineer
Page Label: [2] S9088-A-01-017
Author: dotprete
Date: 8/30/2022 2:24:32 PM
Status:
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define line type in legend. Please show the following
1. property boundary
2. construction boundary, and
3. limits of construction

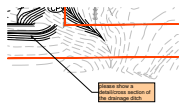
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Subject: Engineer
Page Label: [2] S9088-A-01-017
Author: dotprete
Date: 8/30/2022 2:25:25 PM
Status:
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Label all proposed temporary construction BMPs by phase of implementation (initial, interim, final).

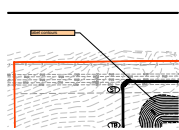
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Subject: Engineer
Page Label: [2] S9088-A-01-017
Author: dotprete
Date: 8/30/2022 2:26:19 PM
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please show a detail/cross section of the drainage ditch

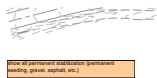
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Author: dotprete
Date: 8/30/2022 2:27:26 PM
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label contours

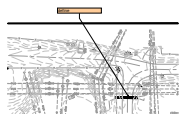
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Subject: Engineer
Page Label: [2] S9088-A-01-017
Author: dotprete
Date: 8/30/2022 2:28:48 PM
Status:
Color: ■
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Space:

show all permanent stabilization (permanent seeding, gravel, asphalt, etc.)

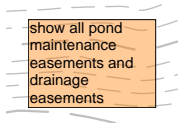
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Subject: Engineer
Page Label: [2] S9088-A-01-017
Author: dotprete
Date: 8/30/2022 2:30:01 PM
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define

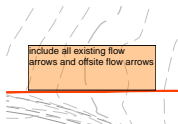
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Subject: Engineer
Page Label: [2] S9088-A-01-017
Author: dotprete
Date: 8/30/2022 3:16:06 PM
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Color: ■
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show all pond maintenance easements and drainage easements

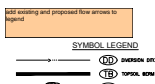
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Subject: Engineer
Page Label: [2] S9088-A-01-017
Author: dotprete
Date: 8/30/2022 3:17:23 PM
Status:
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include all existing flow arrows and offsite flow arrows

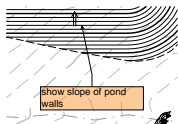
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Subject: Engineer
Page Label: [2] S9088-A-01-017
Author: dotprete
Date: 8/30/2022 3:17:41 PM
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Color: ■
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add existing and proposed flow arrows to legend

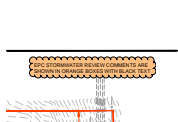
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Subject: Engineer
Page Label: [2] S9088-A-01-017
Author: dotprete
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show slope of pond walls

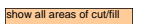
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Subject: Stormwater Comments Color
Page Label: [1] S9088-A-01-016
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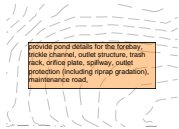
show all areas of cut/fill

8/30/2022 3:34:36 PM (1)



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Page Label: [2] S9088-A-01-017
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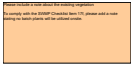
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Subject: Engineer
Page Label: [2] S9088-A-01-017
Author: dotprete
Date: 8/30/2022 3:38:17 PM
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provide pond details for the forebay, trickle channel, outlet structure, trash rack, orifice plate, spillway, outlet protection (including riprap gradation), maintenance road,

8/30/2022 3:38:53 PM (1)

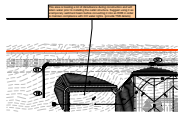


Subject: Engineer
Page Label: [2] S9088-A-01-017
Author: dotprete
Date: 8/30/2022 3:38:53 PM
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Please include a note about the existing vegetation

To comply with the SWMP Checklist Item 17f, please add a note stating no batch plants will be utilized onsite.

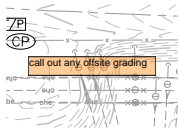
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Subject: Engineer
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Date: 8/30/2022 3:44:51 PM
Status:
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This area is treating a lot of disturbance during construction and will retain water prior to installing the outlet structure. Suggest using it as a temporary sediment basin before converting it into an EDB in order to maintain compliance with CO water rights. (provide TSB details)

8/30/2022 3:48:35 PM (1)



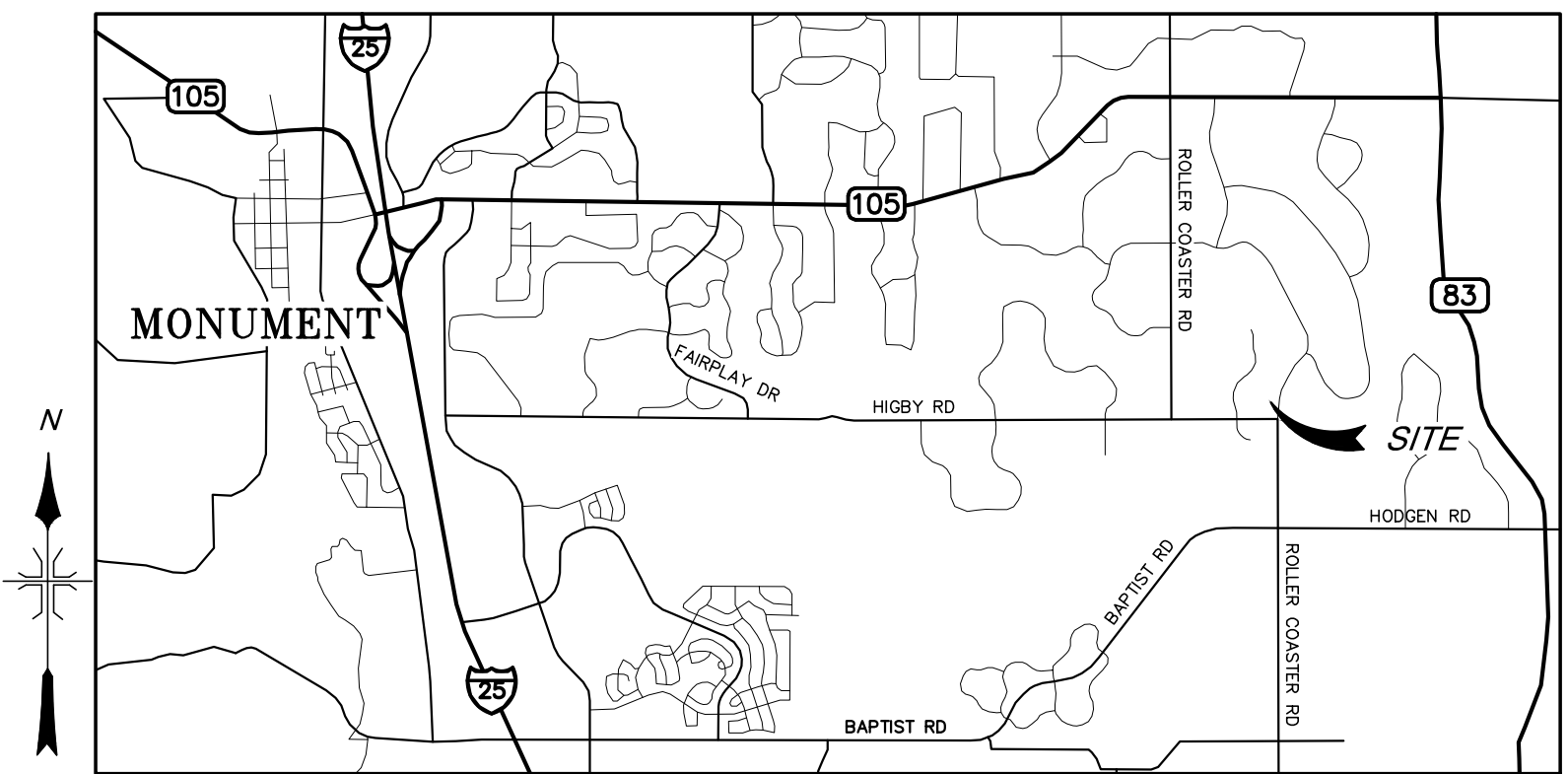
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Page Label: [2] S9088-A-01-017
Author: dotprete
Date: 8/30/2022 3:48:35 PM
Status:
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Space:

call out any offsite grading

EPC STORMWATER REVIEW COMMENTS ARE SHOWN IN ORANGE BOXES WITH BLACK TEXT

STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS:

- 1. 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.
2. 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...
3. A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DESIGNED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
10. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION.
11. COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER.
12. 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.
13. 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.
14. 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.
15. EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS.
17. 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.
18. TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED.
19. 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.
20. 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.
21. 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.
22. 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.
23. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.
24. 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.
25. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS.
26. PRIOR TO CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
27. 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.
28. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY YEH AND ASSOCIATES AND SHALL BE CONSIDERED A PART OF THESE PLANS.
29. 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.
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



VICINITY MAP N.T.S.

Site Coordinates (Lat/Long): 39.0808, -104.7858
Address: 401 Higby Road, Monument, CO

Add parcel #s

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.

Engineer of Record Signature Date

OWNER'S STATEMENT:

I, the owner/developer have read and will comply with the requirements of the grading and erosion control plan and all of the requirements specified in these detailed plans and specifications.

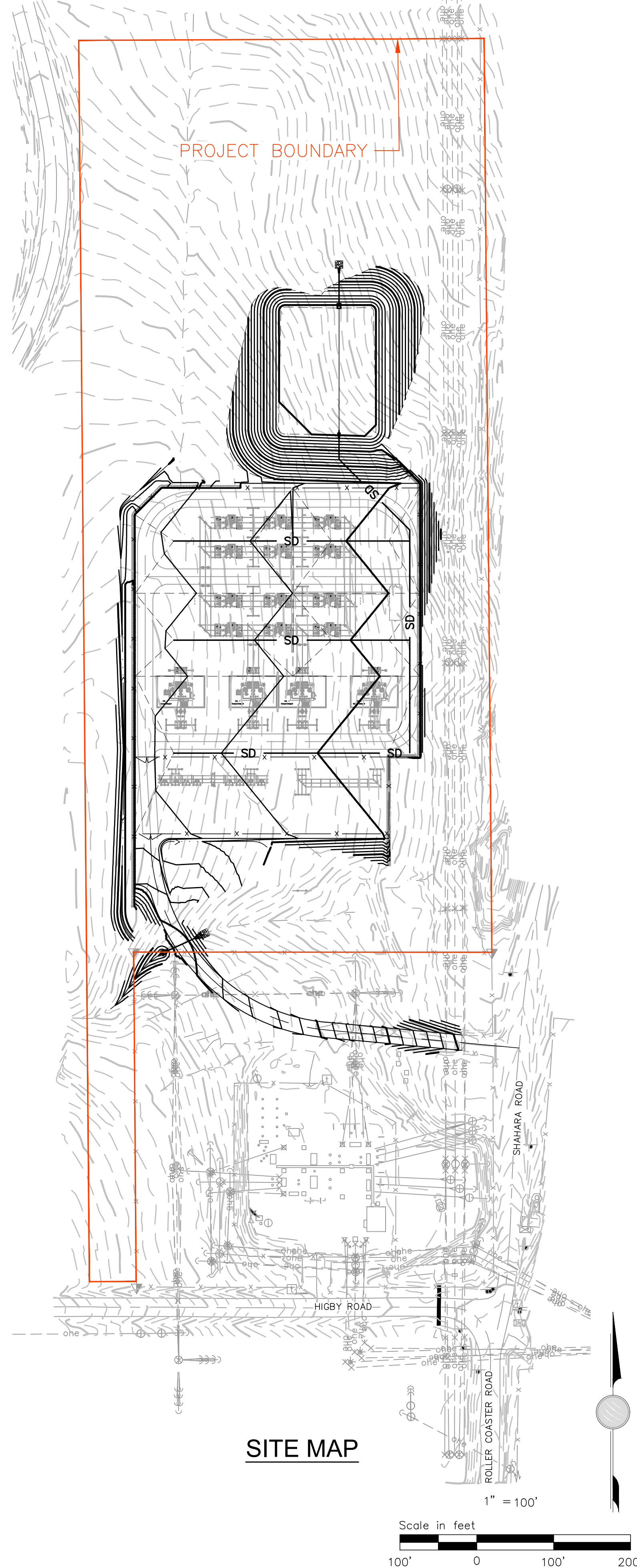
Owner Signature Date

Add missing County Engineer Statement

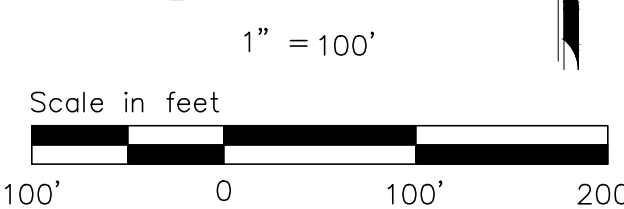
El Paso County: County plan review is provided only for general conformance with County Design Criteria. The County is not responsible for the accuracy and adequacy of the design, dimensions, and/or elevations which shall be confirmed at the job site. The County through the approval of this document 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 Director's discretion.

County Engineer/ECM Administrator Date

Add sheet index and Point of contacts.



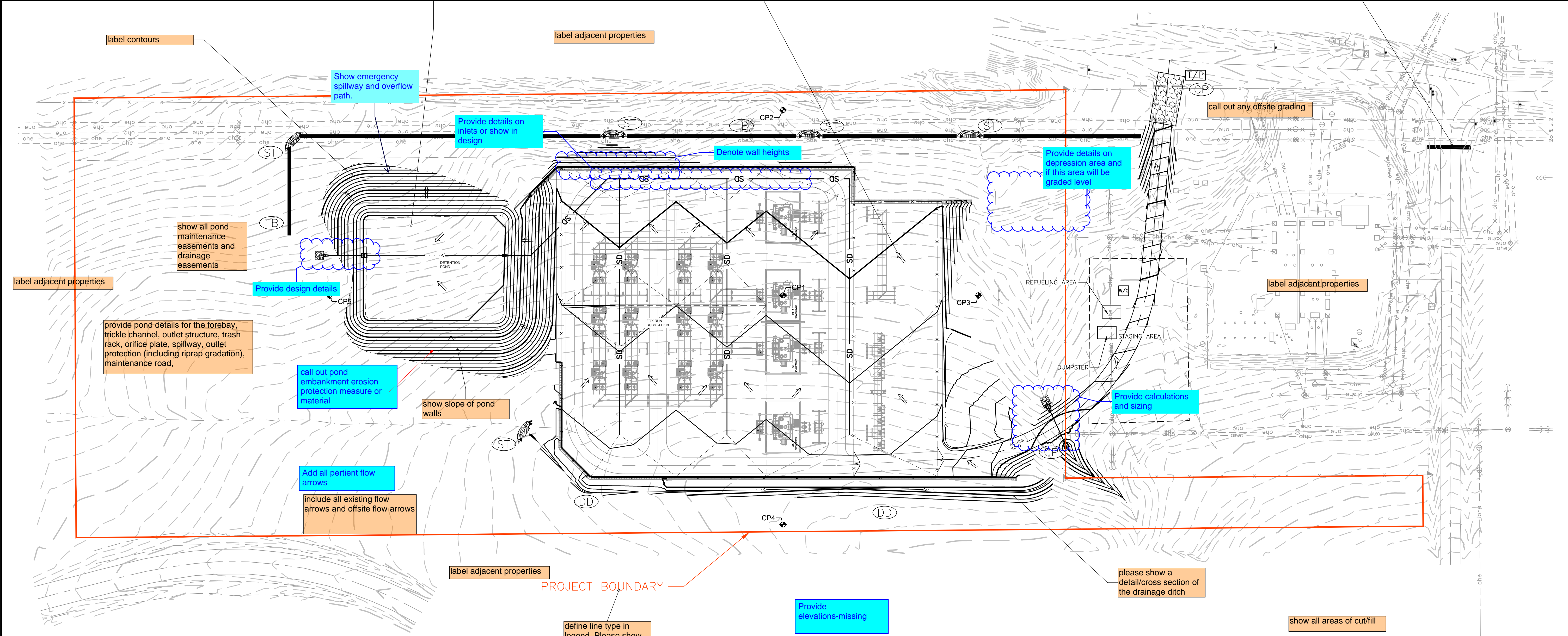
SITE MAP



Add PCD File No. PPR2244

Project information block containing: FOX RUN SUBSTATION, EROSION CONTROL PLAN NOTES, TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED, 1100 W. 116th Ave., P.O. Box 33693, Denver, Colorado 80233, 303-452-6111, Date: 12/16/21, and drawing title: Reference Drawings.

This area is treating a lot of disturbance during construction and will retain water prior to installing the outlet structure. Suggest using it as a temporary sediment basin before converting it into an EDB in order to maintain compliance with CO water rights. (provide TSB details)



show all permanent stabilization (permanent seeding, gravel, asphalt, etc.)

label contours

Show emergency spillway and overflow path.

Provide details on inlets or show in design

Denote wall heights

Provide details on depression area and if this area will be graded level

call out any offsite grading

show all pond maintenance easements and drainage easements

Provide design details

provide pond details for the forebay, trickle channel, outlet structure, trash rack, orifice plate, spillway, outlet protection (including riprap gradation), maintenance road,

call out pond embankment erosion protection measure or material

show slope of pond walls

Add all pertinent flow arrows

include all existing flow arrows and offsite flow arrows

Provide calculations and sizing

label adjacent properties

PROJECT BOUNDARY

define line type in legend. Please show the following
1. property boundary
2. construction boundary, and
3. limits of construction

Provide elevations-missing

Provide WQCV Detention Pond construction drawings to include outlet structure, orifice plate etc.

please show a detail/cross section of the drainage ditch

show all areas of cut/fill

Add temporary and permanent BMP details

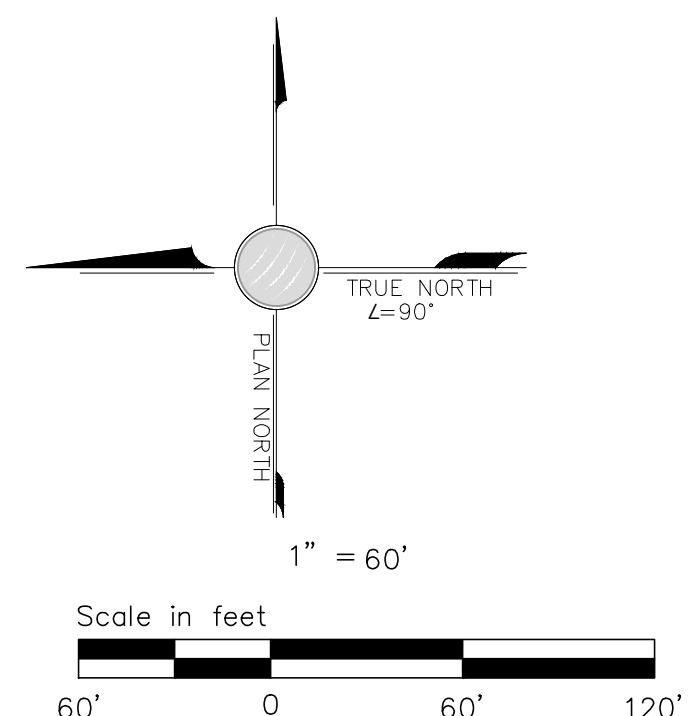
Please include a note about the existing vegetation
To comply with the SWMP Checklist Item 17f, please add a note stating no batch plants will be utilized onsite.

add existing and proposed flow arrows to legend

SYMBOL LEGEND

- DD DIVERSION DITCH
- TB TOPSOIL BERM
- ST SEDIMENT TRAP
- SW STRAW WATTLE
- CP CULVERT PROTECTION
- IP INLET PROTECTION
- T/P TRACKING PAD
- CONC. WASH-OUT CONCRETE WASHOUT (WITH LOCATION SIGN)
- W/C PORTABLE TOILET

Label all proposed temporary construction BMPs by phase of implementation (initial, interim, final).



FOX RUN SUBSTATION		EROSION CONTROL PLAN	
TRI-STATE GENERATION & TRANSMISSION ASSOCIATION, INCORPORATED			
1100 W. 116th Ave. P.O. Box 33890 Denver, Colorado 80233			
Dwn: TMC		Date: 12/16/21	
Appd: .		Date: .	
S9088-A-01-017		PRELIMINARY	