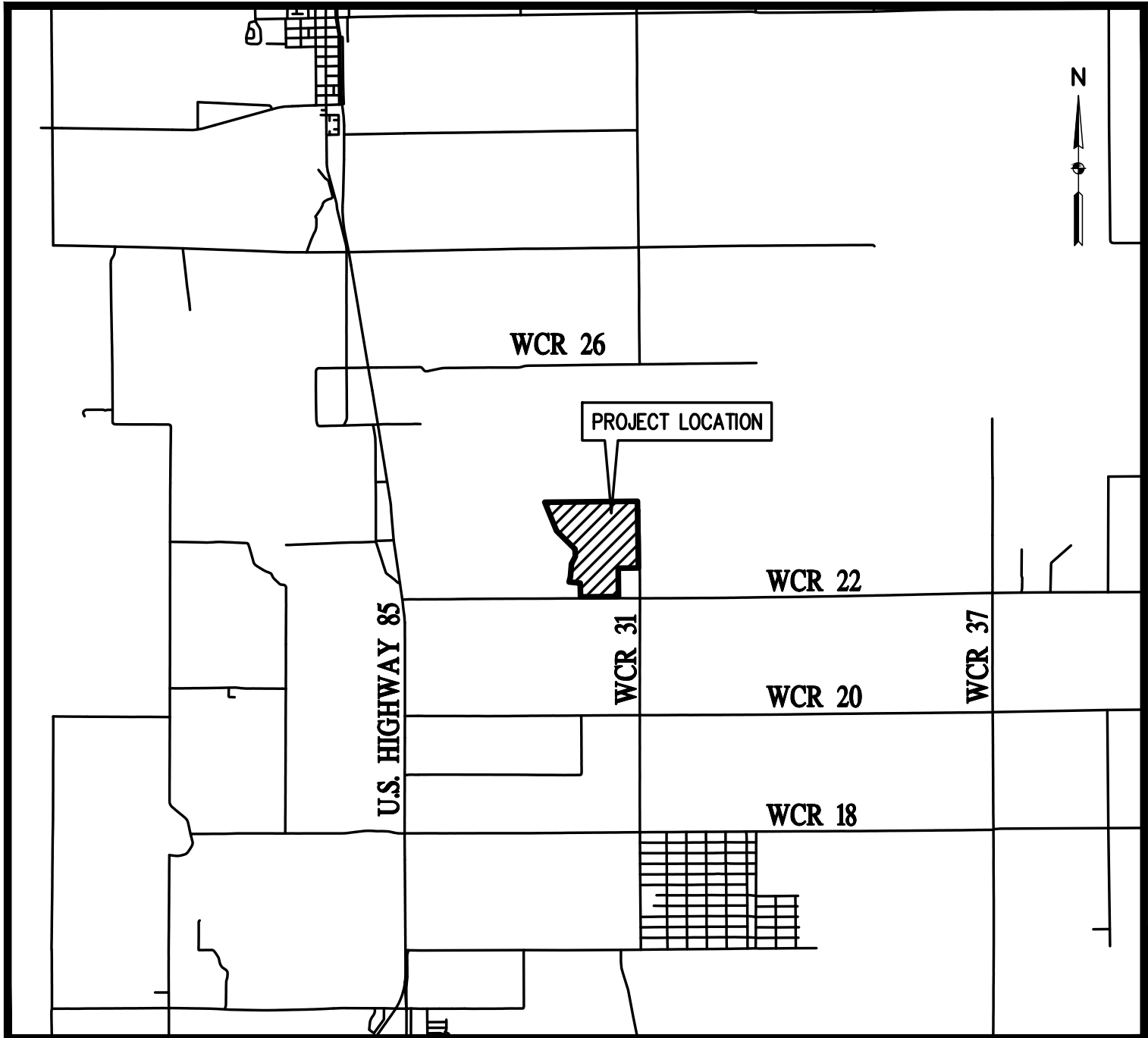


CONSTRUCTION DOCUMENTS

FLUID MANAGEMENT FACILITY

LOT B, RECORDED EXEMPTION NO. RE2263 , LOCATED IN THE SOUTHEAST CORNER OF  
SECTION 9, TOWNSHIP 2 NORTH, RANGE 66 WEST OF THE 6th PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO



VICINITY MAP  
1" = 2000'

SHEET INDEX

SHT. NO.	SHEET TITLE
C1	COVER
C2	GENERAL NOTES & LEGEND
C3	OVERALL SITE PLAN
C4	DETAILED SITE PLAN
C5	GRADING PLAN
C6	EROSION CONTROL PLAN
C7	EROSION CONTROL DETAILS I
C8	EROSION CONTROL DETAILS II
C9	OUTLET DETAILS

CONTACTS:

ANADARKO PETROLEUM CORPORATION  
501 NORTH DIVISION BLVD  
PLATTEVILLE, CO 80661  
970-775-3310

BASLINE ENGINEERING  
112 N. RUBEY DRIVE, SUITE 201  
GOLDEN, CO 80403  
303-940-9966

WELD COUNTY PLANNING DEPARTMENT  
918 10TH STREET  
GREELEY, COLORADO 80631  
970-353-6100 X 3540

WELD COUNTY SHERIFF'S DEPARTMENT  
1850 O. STREET  
GREELEY, CO 80631  
970-356-4015

COLORADO OIL & GAS CONSERVATION COMMISSION  
1120 LINCOLN STREET, #801  
DENVER, CO 80203  
303-894-2100

EPA REGION 8  
1595 WYNKOOP STREET  
DENVER, CO 80202  
303-312-6312

CDOT  
1420 2ND STREET  
GREELEY, COLORADO 80631  
970-350-2148

ATMOS ENERGY  
P.O. BOX 1200  
GREELEY, CO. 80631  
970-304-2075

XCEL ENERGY  
1500 6TH AVE  
GREELEY CO, 80631  
800-895-4999

CENTURY LINK COMMUNICATIONS  
12680 WCR 58  
GREELEY COLORADO 806343  
970-350-2941



Engineering - Planning - Surveying  
1950 FORD STREET • GOLDEN, COLORADO 80401  
P. 303.940.9966 • F. 303.940.9968 • www.baselinecorp.com

DESIGNED BY  
NUN  
DRAWN BY  
LDS  
CHECKED BY  
NUN

DATE  
10/15/2018

PREPARED BY  
LTV

REVISION DESCRIPTION  
FINAL WELD COUNTY SUBMITTAL

WELD COUNTY

FLUID MANAGEMENT FACILITY  
SE 1/4 SECTION 9, T2N, R66W, LOT B OF RE-2263  
COVER

ANADARKO E&P ONSHORE LLC

FOR AND ON BEHALF OF  
BASELINE CORPORATION

INITIAL SUBMITTAL 3/6/2017

DRAWING SIZE 24" X 36"

SURVEY FIRM SURVEY DATE  
BASELINE 10/18/2016

JOB NO. C03251

DRAWING NAME  
3251 COVER & DETAILS.dwg

SHEET 1 OF 9

C1

PROJECT BENCHMARK:  
CP MOSE  
N: 1301672.84  
E: 3206133.77  
ELEVATION = 4961.89



Know what's below.  
Call before you dig.



N:\co3251 - Aggregate Recycling\Drawings\3251 COVER & DETAILS.dwg, 2/18/2019 11:16:15 AM, Lon Von

CONSTRUCTION DOCUMENTS

FLUID MANAGEMENT FACILITY

LOT B, RECORDED EXEMPTION NO. RE2263 , LOCATED IN THE SOUTHEAST CORNER OF  
SECTION 9, TOWNSHIP 2 NORTH, RANGE 66 WEST OF THE 6th PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO

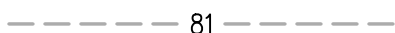
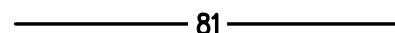
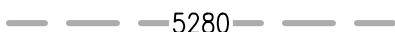



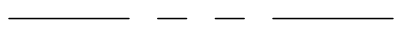
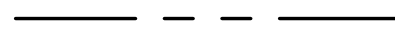
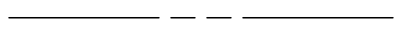

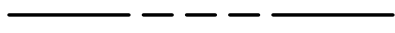


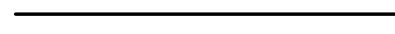
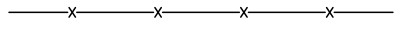
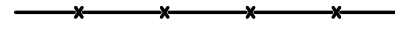
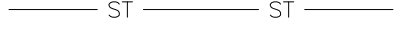









































WELD COUNTY GENERAL NOTES:

- WELD COUNTY, THROUGH ACCEPTANCE OF THIS DOCUMENT, ASSUMES NO RESPONSIBILITY, OTHER THAN STATED ABOVE FOR THE COMPLETENESS AND/OR ACCURACY OF THESE DOCUMENTS. THE OWNER AND ENGINEER UNDERSTAND THAT THE RESPONSIBILITY FOR THE ENGINEERING ADEQUACY OF THE FACILITIES DEPICTED IN THIS DOCUMENT LIES SOLELY WITH THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE IS AFFIXED TO THIS DOCUMENT.
- ALL PUBLIC ROADWAY CONSTRUCTION SHALL CONFORM TO WELD COUNTY DESIGN AND CONSTRUCTION STANDARDS.
- ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY WELD COUNTY. THE COUNTY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY THE COUNTY, A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO STARTING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION. FOR INFORMATION CONTACT 811.
- THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS (ACCEPTED BY WELD COUNTY) AT THE JOB SITE AT ALL TIMES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL REQUIRED PERMITS. THE GENERAL CONTRACTOR SHALL HAVE A FULL TIME QUALIFIED SUPERVISOR ON THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED.
- A PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE SUBMITTED TO WELD COUNTY FOR ACCEPTANCE WITH THE PERMIT APPLICATION. AN EXCAVATION OR PUBLIC IMPROVEMENTS CONSTRUCTION PERMIT WILL NOT BE ISSUED WITHOUT AN APPROVED TRAFFIC CONTROL PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION.
- THE GENERAL CONTRACTOR IS TO GUARANTEE ALL WORK INCLUDING WORK DONE BY SUBCONTRACTORS FOR A PERIOD OF ONE YEAR COMMENCING WITH SUBSTANTIAL COMPLETION OF THE WORK.
- CONTRACTOR TO REVIEW AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY CONDITIONS NOT INDICATED ON THE CONTRACT DOCUMENTS ARE TO BE REPORTED TO THE ENGINEER PRIOR TO BEGINNING WORK IMMEDIATELY.
- THE CONTRACTOR SHALL REMOVE ALL DEBRIS AS A RESULT OF THIS PROJECT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES AND PROCEDURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ASPECTS OF SAFETY AND TRAFFIC CONTROL DURING CONSTRUCTION.
- CONTRACTOR TO OBTAIN AND COMPLY WITH THE WELD COUNTY RIGHT-OF-WAY PERMIT STANDARD PROVISIONS.
- ALIQUOT MONUMENTS DESTROYED DURING CONSTRUCTION TO BE REPLACED BY PROFESSIONAL LAND SURVEYOR.

STANDARD EROSION AND SEDIMENT CONTROL NOTES:

- LANDOWNERS AND/OR CONTRACTORS ARE RESPONSIBLE FOR OBTAINING A PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES FROM THE COLORADO DEPARTMENT OF HEALTH & ENVIRONMENT (CDPHE), AT LEAST TEN (10) DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES IF CONSTRUCTION ACTIVITIES WILL DISTURB 1 (ONE) OR MORE ACRES OF LAND, OR IF THE PROJECT BELONGS TO A COMMON PLAN OF DEVELOPMENT THAT WILL DISTURB 1 (ONE) OR MORE ACRES. IN THE EVENT THAT LOT/PARCEL, WHICH BELONGS TO A COMMON PLAN OF DEVELOPMENT THAT DISTURBED 1 (ONE) OR MORE ACRES, IS SOLD THEN THE NEW LANDOWNER AND/OR CONTRACTOR IS RESPONSIBLE FOR OBTAINING PERMIT COVERAGE FOR THAT LOT/PARCEL.
- LANDOWNERS AND/OR CONTRACTORS ARE RESPONSIBLE FOR OBTAINING A GRADING PERMIT FROM WELD COUNTY IF CONSTRUCTION ACTIVITIES WILL DISTURB 1 (ONE) OR MORE ACRES OF LAND, OR IF THE PROJECT BELONGS TO A COMMON PLAN OF DEVELOPMENT THAT WILL DISTURB 1 (ONE) OR MORE ACRES.
- THE PERMITTED LANDOWNER AND/OR CONTRACTOR MUST KEEP A COPY OF THE CDPHE STORMWATER DISCHARGE PERMIT, STORMWATER MANAGEMENT PLAN (SWMP) AND INSPECTION LOG AVAILABLE ON-SITE THROUGHOUT THE DURATION OF THE PROJECT, AND FOR AN ADDITIONAL THREE (3) YEARS AFTER INACTIVATION FORM IS FILED WITH THE STATE.
- THE PERMITTED LANDOWNER AND/OR CONTRACTOR MAY INACTIVATE THE STATE PERMIT WHEN FINAL STABILIZATION IS REACHED. AS LONG AS ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A DENSITY OF AT LEAST 70 PERCENT OF PRE-DISTURBANCE LEVELS, OR EQUIVALENT PERMANENT, PHYSICAL EROSION REDUCTION METHODS HAVE BEEN EMPLOYED.
- THE PERMITTED LANDOWNER AND/OR CONTRACTOR MUST PERFORM INSPECTIONS OF ALL BMPS EVERY 14 DAYS AND ALSO AFTER ANY SIGNIFICANT STORM EVENT (RAIN OR SNOWMELT) THAT MAY CAUSE EROSION TO ENSURE THAT BMPS ARE FUNCTIONING PROPERLY. INSPECTION LOGS MUST BE KEPT WITH THE SWMP. ALL NECESSARY MAINTENANCE AND REPAIR SHALL BE COMPLETED IMMEDIATELY.
- ALL CONSTRUCTION PROJECTS, WHETHER THEY DISTURB LESS OR MORE THAN 1 (ONE) ACRE SHALL INSTALL, MAINTAIN AND REPAIR EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) ACCORDING TO THE STORMWATER MANAGEMENT PLAN (SWMP) AND/OR EROSION CONTROL PLAN TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. EROSION & SEDIMENT CONTROL MEASURES (BMPS) MUST BE INSTALLED PRIOR TO GRADING OR LAND DISTURBING ACTIVITIES.
- LANDOWNERS AND/OR CONTRACTORS MUST ENSURE THAT VEHICLES DO NOT TRACK EARTH MATERIALS ONTO STREETS AND MUST IMMEDIATELY REMOVE SUCH MATERIALS IF THIS OCCURS. EITHER SWEEPING BY HAND OR THE USE OF STREET SWEEPERS IS ACCEPTABLE. FLUSHING OFF PAVED SURFACES WITH WATER IS PROHIBITED.
- ALL LOADS OF CUT AND FILL MATERIAL IMPORTED TO OR EXPORTED FROM THE SITE SHALL BE PROPERLY COVERED TO PREVENT LOSS OF THE MATERIAL DURING TRANSPORTATION ON PUBLIC ROW.
- THE USE OF DIRT RAMPS IS PROHIBITED. A ROCK PAD ENTRANCE SHOULD BE INSTALLED WHERE CONSTRUCTION VEHICLES NEED TO ENTER OR EXIT FROM AN UNPAVED AREA INTO A PAVED ROAD.
- LANDOWNERS AND/OR CONTRACTORS ARE RESPONSIBLE FOR CONTROLLING WASTE SUCH AS DISCARDING BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE, AS APPLICABLE.
- WASTE COLLECTION AREAS SHOULD BE LOCATED AWAY FROM THE STORM DRAINAGE SYSTEM. CONSIDERATION SHOULD BE GIVEN TO COVERING WASTE STORAGE DUMPSTERS, TO BE ABLE TO CONTAIN WINDBLOWN MATERIALS.
- THE DISCHARGE OF ANY WATER CONTAMINATED BY WASTE PRODUCTS FROM CUTTING OPERATIONS TO THE STORM SEWER SYSTEM IS PROHIBITED. ALL STORM SEWER FACILITIES ADJACENT TO ANY LOCATION WHERE PAVEMENT CUTTING OPERATIONS INVOLVING ROAD/CONCRETE CUTTING NEED TO BE PROTECTED. ALL WASTE PRODUCTS GENERATED DURING CUTTING ACTIVITIES MUST BE REMOVED ON A DAILY BASIS.
- WATER USE TO CLEAN CEMENT/CONCRETE TRUCKS SHALL BE DISCHARGED INTO A CONCRETE WASHOUT AREA (CWA). THE PREDEFINED CONTAINMENT AREA MUST BE IDENTIFIED WITH A SIGN, AND SHALL ALLOW THE LIQUIDS TO INFILTRATE, EVAPORATE OR DRY OUT. DRIED CONCRETE WASTE SHALL BE REMOVED AND PROPERLY DISPOSED OF.
- THE DISCHARGE OF SANITARY WASTE IN THE STORM SEWER SYSTEM IS PROHIBITED. PORTABLE TOILETS MUST BE PLACED ON PERMEABLE SURFACES, AWAY FROM THE CURBSIDE AND AWAY FROM STORM INLETS AND/OR DRAINAGE WAYS.
- SPILL PREVENTION AND CONTAINMENT BMP'S FOR CONSTRUCTION MATERIALS, WASTE AND FUEL MUST BE PROVIDED. SPILLS THAT MAY REACH THE STORM SEWER SYSTEM MUST BE REPORTED ACCORDING TO FEDERAL, STATE AND COUNTY REGULATIONS.
- STORM INLETS WITHIN AND/OR ADJACENT TO THE CONSTRUCTION SITE SHOULD BE PROTECTED. ANY PONDING OF STORMWATER AROUND INLET PROTECTION MUST NOT CAUSE EXCESSIVE INCONVENIENCE OR DAMAGE TO ADJACENT AREAS OR STRUCTURES.
- RUNOFF FROM STOCKPILED AREA MUST BE CONTROLLED. SOILS THAT WILL BE STOCKPILED FOR MORE THAN 30 DAYS SHALL BE PROTECTED FROM WIND AND WATER EROSION WITHIN 14 DAYS OF STOCKPILE CONSTRUCTION (MULCH & SEEDING, EROSION CONTROL BLANKETS, ETC). ANY STOCKPILE LOCATED NEAR A DRAINAGE WAY, MUST BE PROVIDED WITH ADDITIONAL BMPS PROTECTION SUCH AS TEMPORARY DIKES OR SILT FENCE.
- NATURAL VEGETATION SHALL BE PRESERVED AND PROTECTED WHENEVER POSSIBLE. REMOVAL OR DISTURBANCE OF EXISTING VEGETATION SHALL BE LIMITED TO THE AREA REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS. DISTURBED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS SHOULD BE STABILIZED WITHIN 14 DAYS.
- FUGITIVE DUST EMISSIONS RESULTING FROM GRADING ACTIVITIES AND/OR WIND SHALL BE CONTROLLED.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER THE SITE HAS ACHIEVED FINAL STABILIZATION AND THE PERMIT HAS BEEN INACTIVATED. THE STORMWATER VOLUME CAPACITY OF PONDS MUST BE RESTORED, AND STORM SEWER LINES AND/OR DRAINAGE INFRASTRUCTURE SHOULD BE CLEANED UPON COMPLETION OF PROJECT.
- CONDITIONS IN THE FIELD MAY WARRANT EROSION AND SEDIMENT CONTROL MEASURES IN ADDITION TO WHAT IS SHOWN ON THE SWMP AND/OR EROSION CONTROL PLAN. THE LANDOWNER OR CONTRACTOR SHALL IMPLEMENT WHATEVER MEASURES ARE DETERMINED NECESSARY, AS DIRECTED BY THE COUNTY.
- ALL AREAS NOT LANDSCAPED OR COVERED BY OTHER PERMANENT SURFACES SHALL BE RESEEDDED PER TABLE RV-10 GRASS SEEDING TABLES BASED ON RANGE SITES FOR SANDY MEADOW AND SANDY PLAINS SITE CONDITIONS, AS CONTAINED IN WELD COUNTY CODE, CHAPTER 8, ARTICLE XI – STORM DRAINAGE CRITERIA, DIVISION I – GENERAL PROVISIONS, CHAPTER 12 – REVEGETATION.

LEGEND

EXISTING LINETYPES	PROPOSED LINETYPES	
		MINOR CONTOUR (1' INTERVAL)
		MAJOR CONTOUR (5' INTERVAL)
		PROPERTY BOUNDARY
		RIGHT-OF-WAY
		LOT LINE
		SECTION LINE
		EDGE OF GRAVEL
		WIRE FENCE
		STORM SEWER
		GASLINE
		HIGH VOLTAGE TRANSMISSION
		UNDERGROUND ELECTRIC
		OVERHEAD UTILITY
EXISTING SYMBOLS	PROPOSED SYMBOLS	
		ALIQUOT CORNER AS DESCRIBED
		LIGHT POLE
		POWER POLE
		SIGN
		GAS METER
		SPOT ELEVATION
		FLOW DIRECTION, TYPICALLY ON PAVED SURFACES
		CHECK DAM (CD)
		INLET PROTECTION (IP)
		CULVERT INLET PROTECTION (OIP)
		SILT FENCE (SF)
		CONCRETE WASHOUT AREA (CWA)
		STABILIZED STORAGE AREA (SSA)
		VEHICLE TRACKING CONTROL (VTC)
		SEEDING & MULCHING (SM)
		PROPOSED ROAD BASE PAVING



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DESIGNED BY NJN  
DRAWN BY LDS  
CHECKED BY NJN

DATE 10/15/2018

PREPARED BY LTV

FINAL WELD COUNTY SUBMITTAL

REVISION DESCRIPTION

WELD COUNTY

SE 1/4 SECTION 9, T2N, R66W, LOT B OF RE-2263

GENERAL NOTES & LEGEND

FOR AND ON BEHALF OF  
BASELINE CORPORATION

INITIAL SUBMITTAL 3/6/2017

DRAWING SIZE 24" X 36"

SURVEY FIRM SURVEY DATE  
BASELINE 10/18/2016

JOB NO. C03251

DRAWING NAME  
3251 COVER & DETAILS.dwg

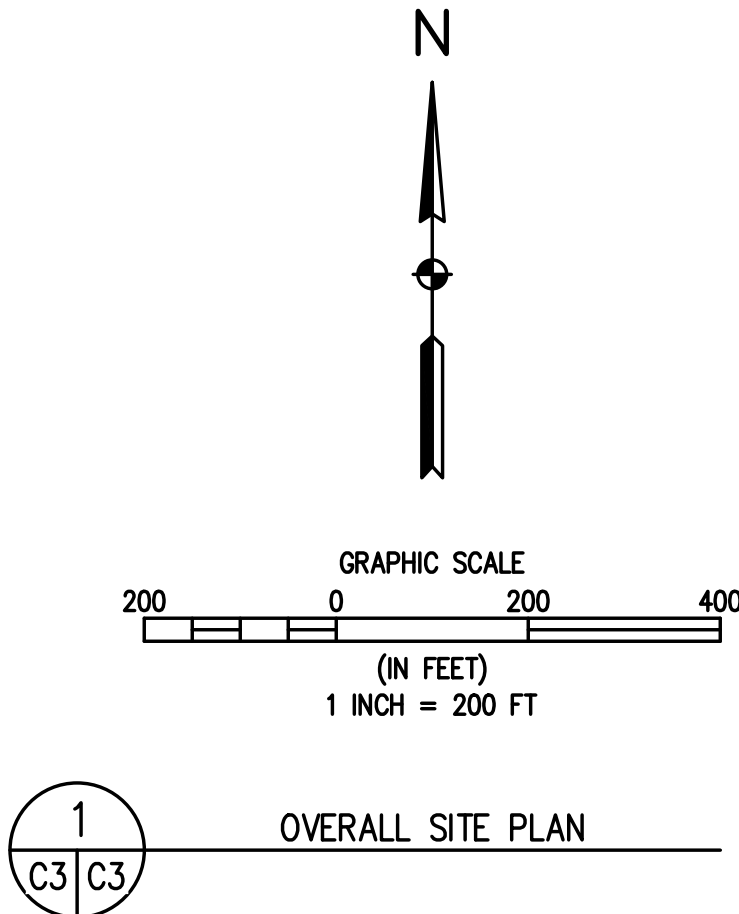
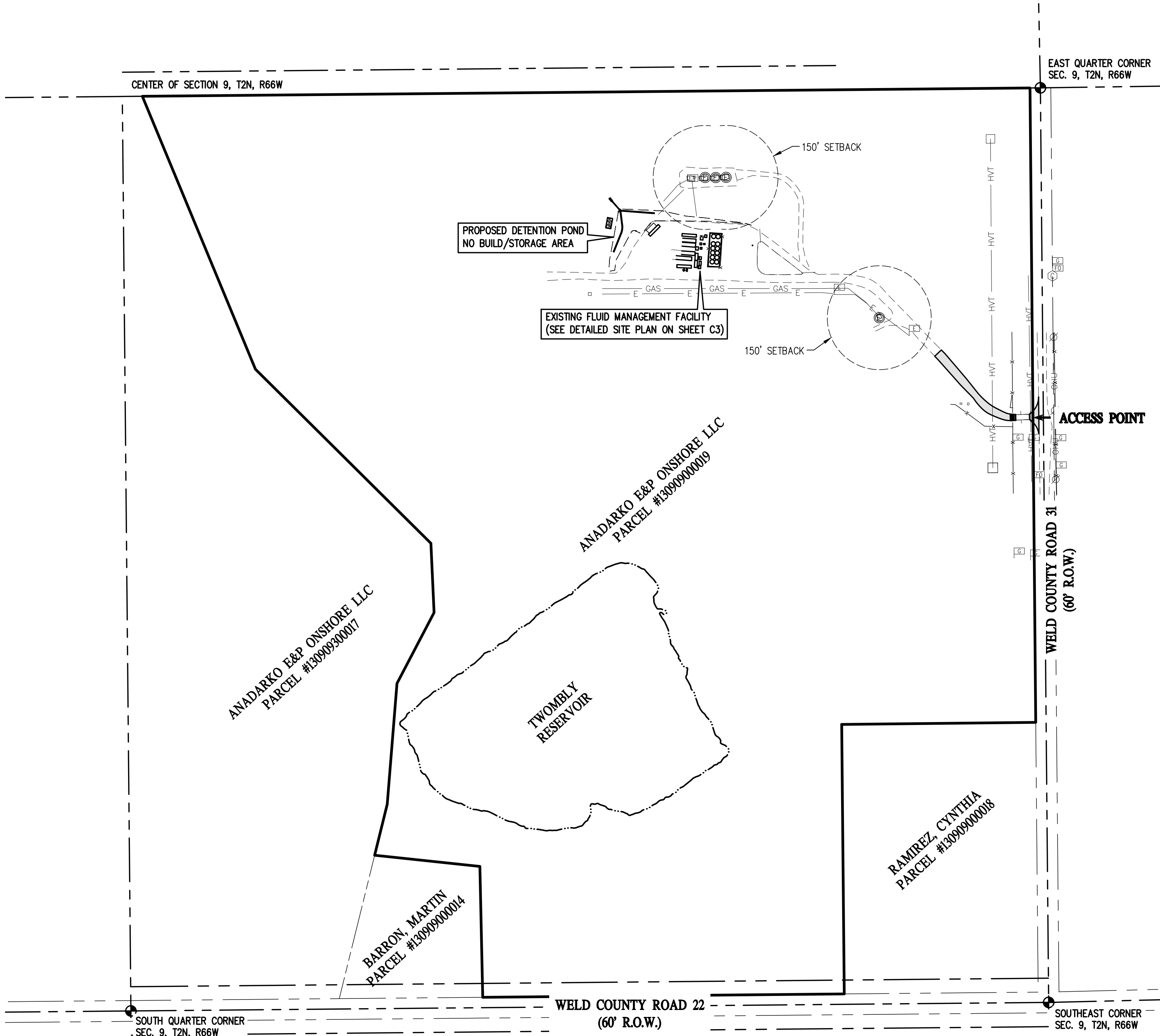
SHEET 2 OF 9

C2



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CONSTRUCTION DOCUMENTS  
FLUID MANAGEMENT FACILITY  
LOT B, RECORDED EXEMPTION NO. RE2263 , LOCATED IN THE SOUTHEAST CORNER OF  
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DESIGNED BY  
NJN

PREPARED BY  
LTV

REVISION DESCRIPTION  
FINAL WELD COUNTY SUBMITTAL

DATE  
10/15/2018

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DATE  
10/15/2018

DRAWN BY  
LDS

CHECKED BY  
NJN

ANADARKO E&P ONSHORE LLC

WELD COUNTY

FLUID MANAGEMENT FACILITY

SE 1/4 SECTION 9, T2N, R66W, LOT B OF RE-2263

OVERALL SITE PLAN

FOR AND ON BEHALF OF  
BASELINE CORPORATION

INITIAL SUBMITTAL 3/6/2017

DRAWING SIZE 24" X 36"

SURVEY FIRM BASELINE

SURVEY DATE 10/18/2016

JOB NO. C03251

DRAWING NAME 3251 CIVIL CDs.dwg

SHEET 3 OF 9

COLORADO LICENSED  
PROFESSIONAL ENGINEER  
39820

PREPARED UNDER THE DIRECT  
SUPERVISION OF

BASELINE

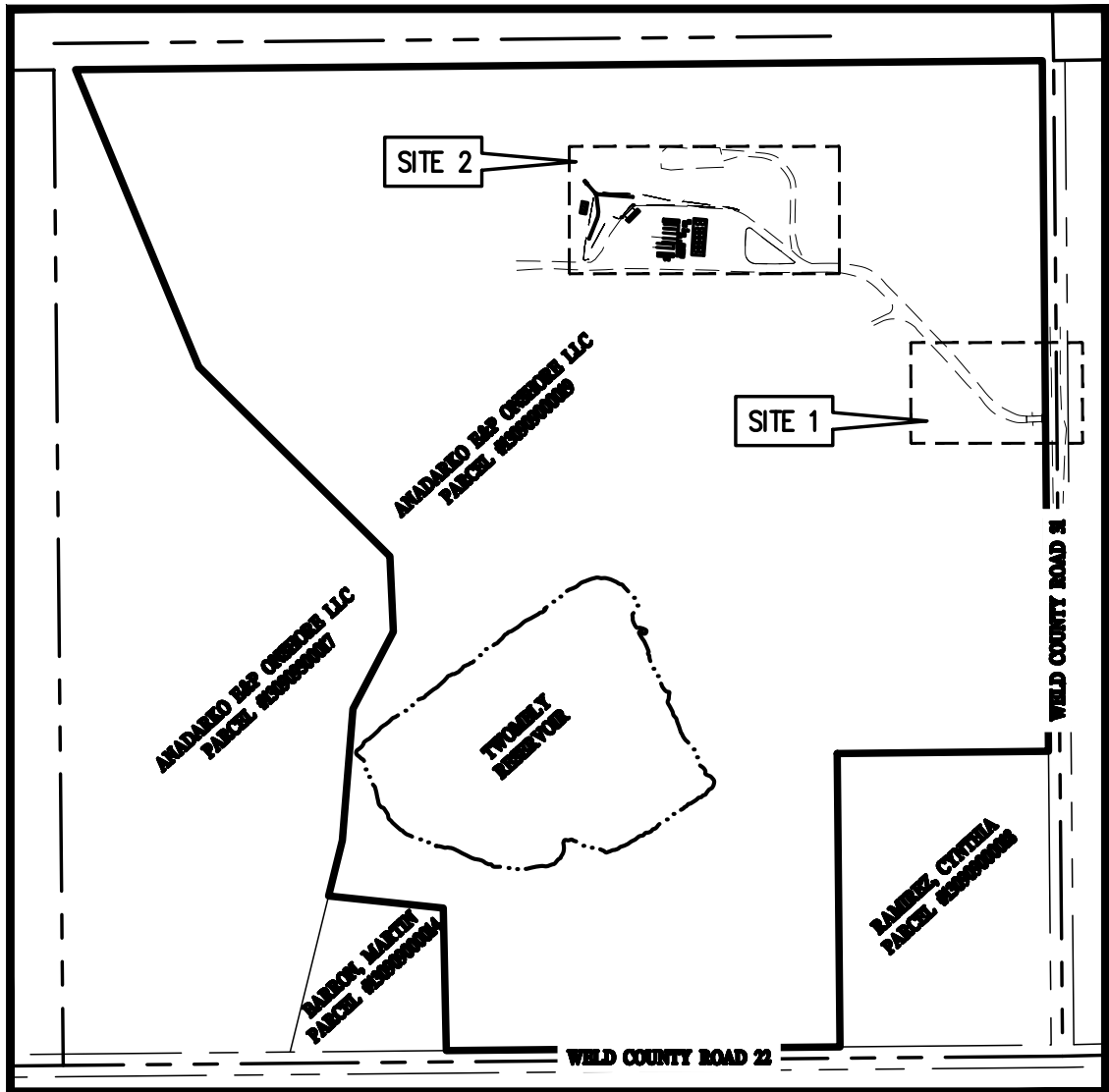
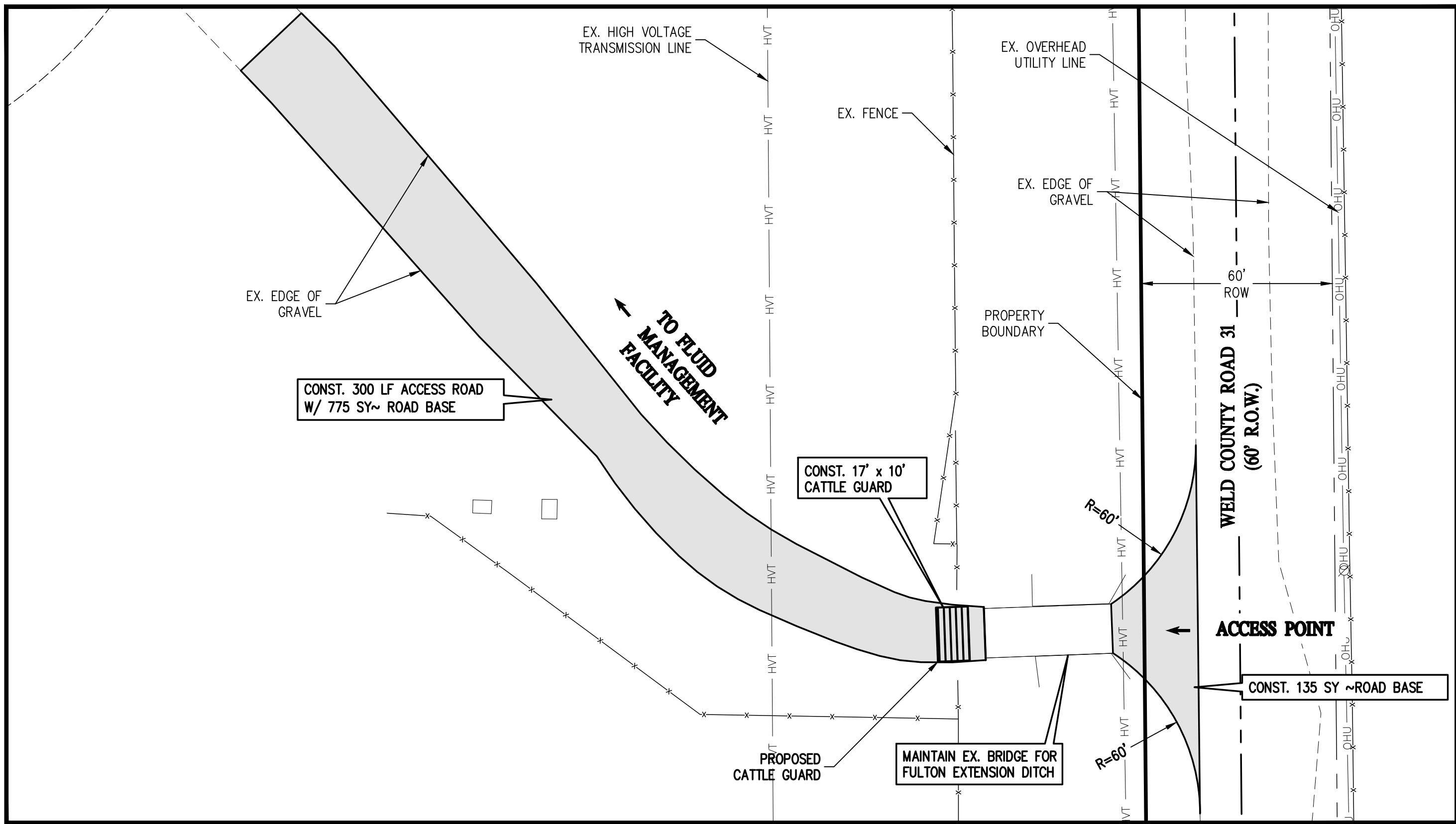
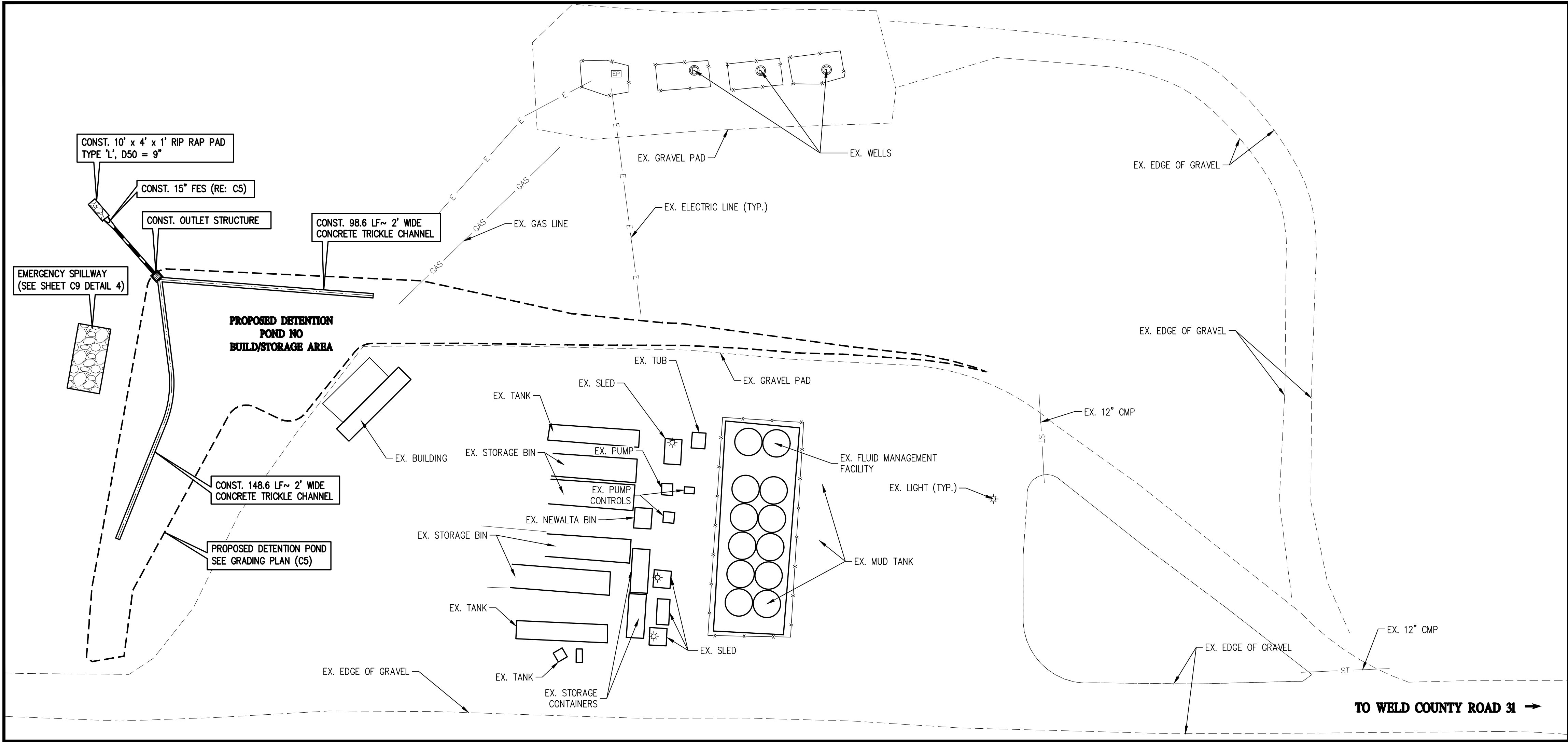
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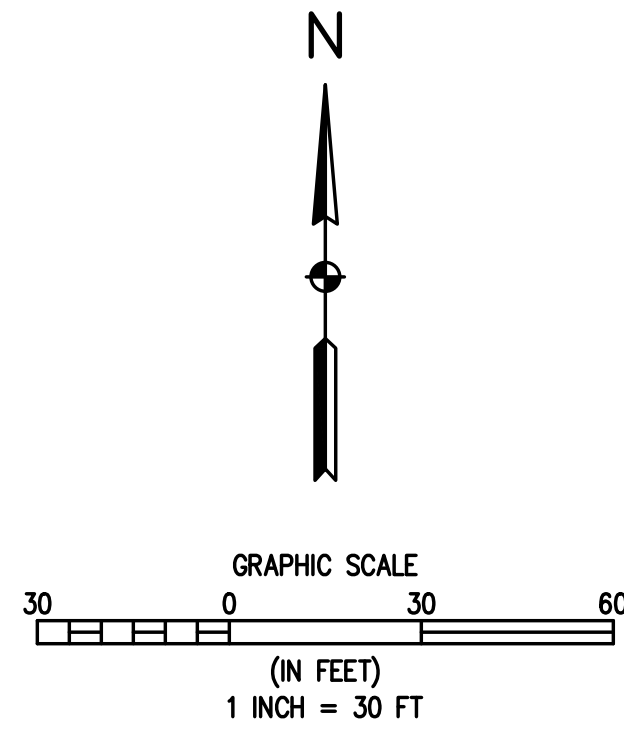
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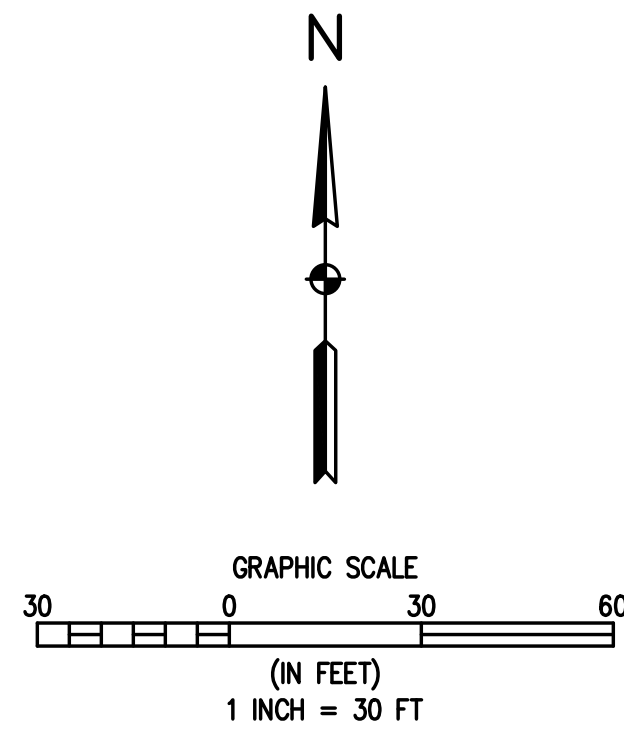
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**FLUID MANAGEMENT FACILITY**  
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**KEYMAP**  
1" = 500'



**3**  
C4 C4 DETAILED SITE PLAN - 2



**1**  
C4 C4 DETAILED SITE PLAN - 1



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DESIGNED BY	NJN
DRAWN BY	LDS
CHECKED BY	NJN

DATE	10/15/2018
PREPARED BY	LTV

REVISION	DESCRIPTION
FINAL	WELD COUNTY SUBMITTAL

**ANADARKO E&P ONSHORE LLC**  
WELD COUNTY  
**FLUID MANAGEMENT FACILITY**  
SE 1/4 SECTION 9, T2N, R66W, LOT B OF RE-2263  
DETAILED SITE PLAN

PREPARED UNDER THE DIRECT SUPERVISION OF

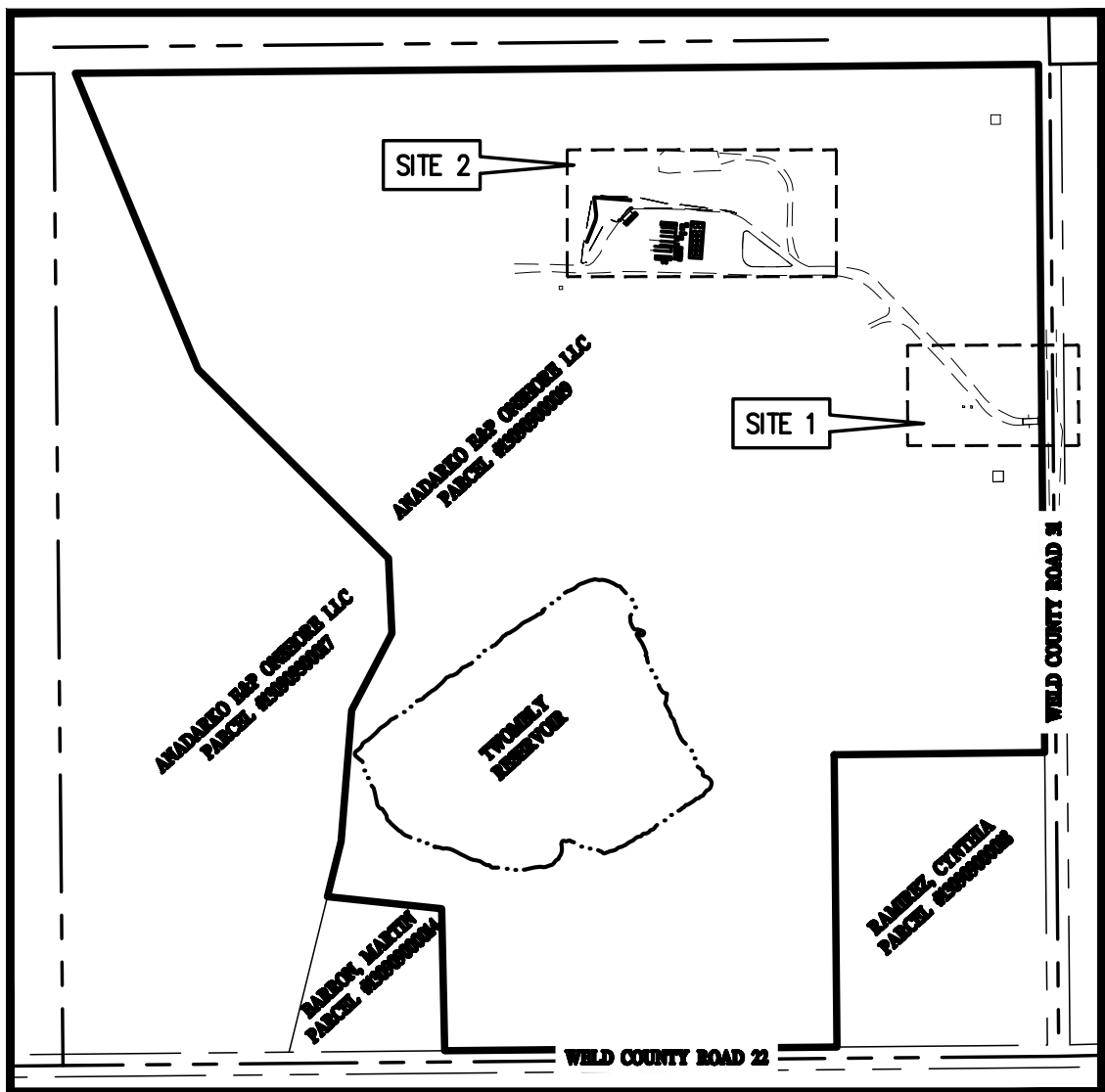
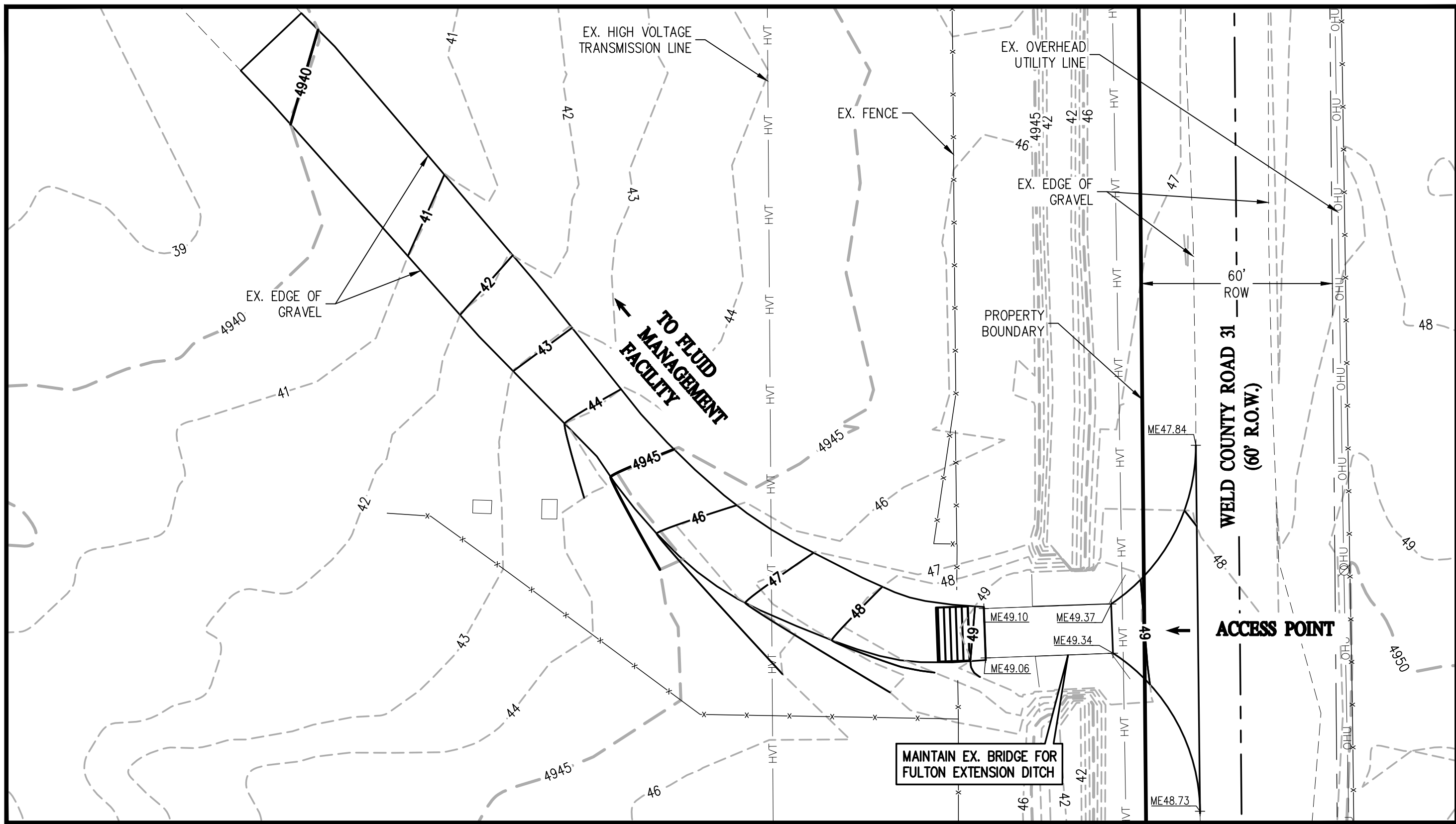
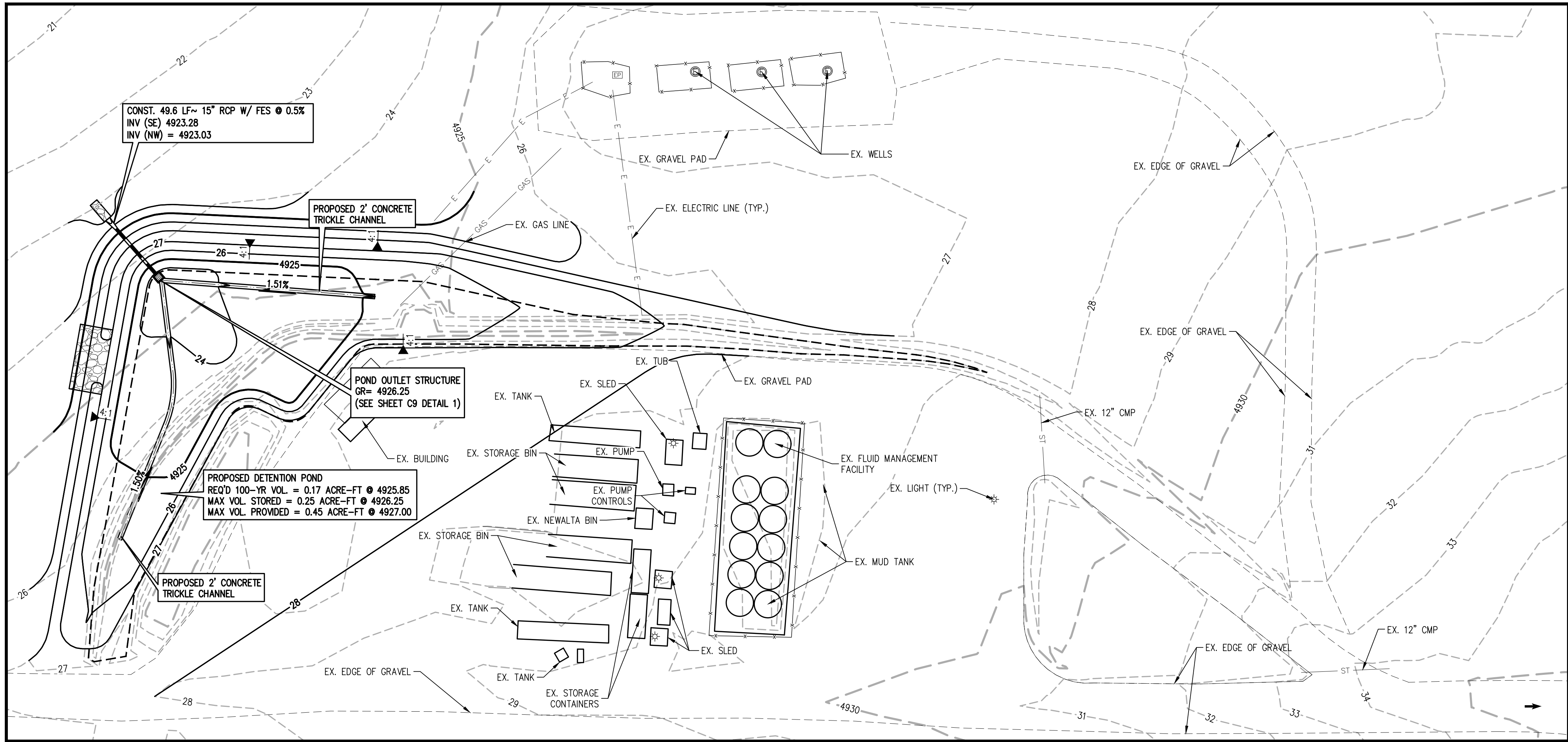


FOR AND ON BEHALF OF	BASELINE CORPORATION
INITIAL SUBMITTAL	3/6/2017
DRAWING SIZE	24" x 36"
SURVEY FIRM	BASELINE
SURVEY DATE	10/18/2016
JOB NO.	C03251
DRAWING NAME	3251 CIVIL CDs.dwg
SHEET	4 OF 9

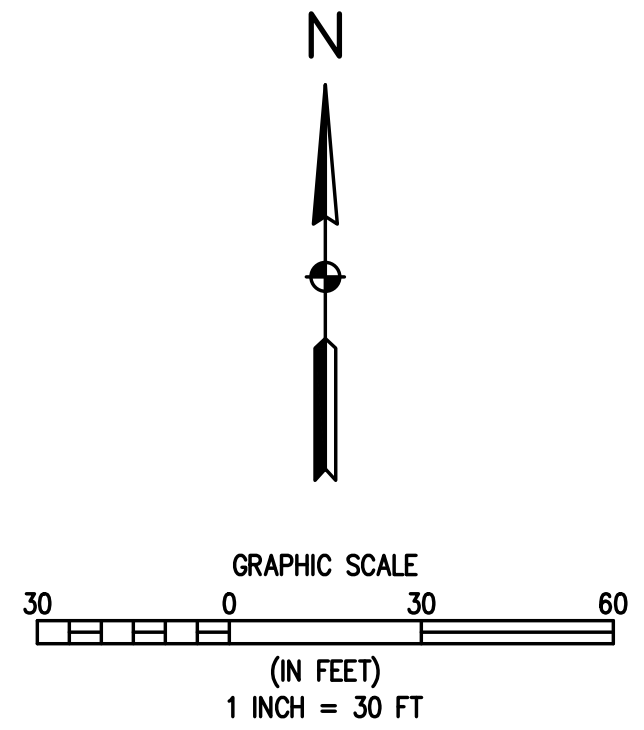


# CONSTRUCTION DOCUMENTS FLUID MANAGEMENT FACILITY

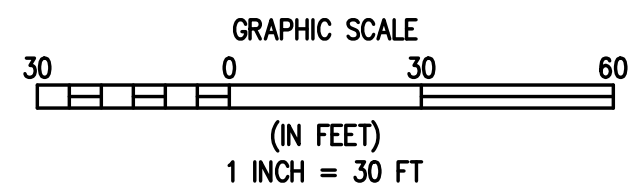
LOT B, RECORDED EXEMPTION NO. RE2263 , LOCATED IN THE SOUTHEAST CORNER OF  
SECTION 9, TOWNSHIP 2 NORTH, RANGE 66 WEST OF THE 6th PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO



KEYMAP  
1" = 500'



3  
C5 C5 GRADING PLAN - 2



1  
C5 C5 GRADING PLAN - 1

**BASELINE**  
Engineering - Planning - Surveying

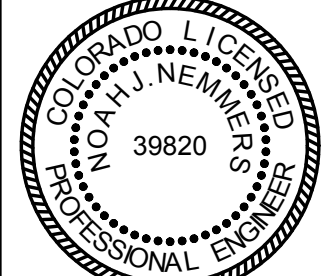
DESIGNED BY: NJN  
DRAWN BY: LDS  
CHECKED BY: NJN

DATE: 10/15/2018  
PREPARED BY: LTV

REVISION DESCRIPTION  
FINAL WELD COUNTY SUBMITTAL

ANADARKO E&P ONSHORE LLC  
WELD COUNTY  
FLUID MANAGEMENT FACILITY  
SE 1/4 SECTION 9, T2N, R66W, LOT B OF RE-2263  
GRADING PLAN

PREPARED UNDER THE DIRECT SUPERVISION OF



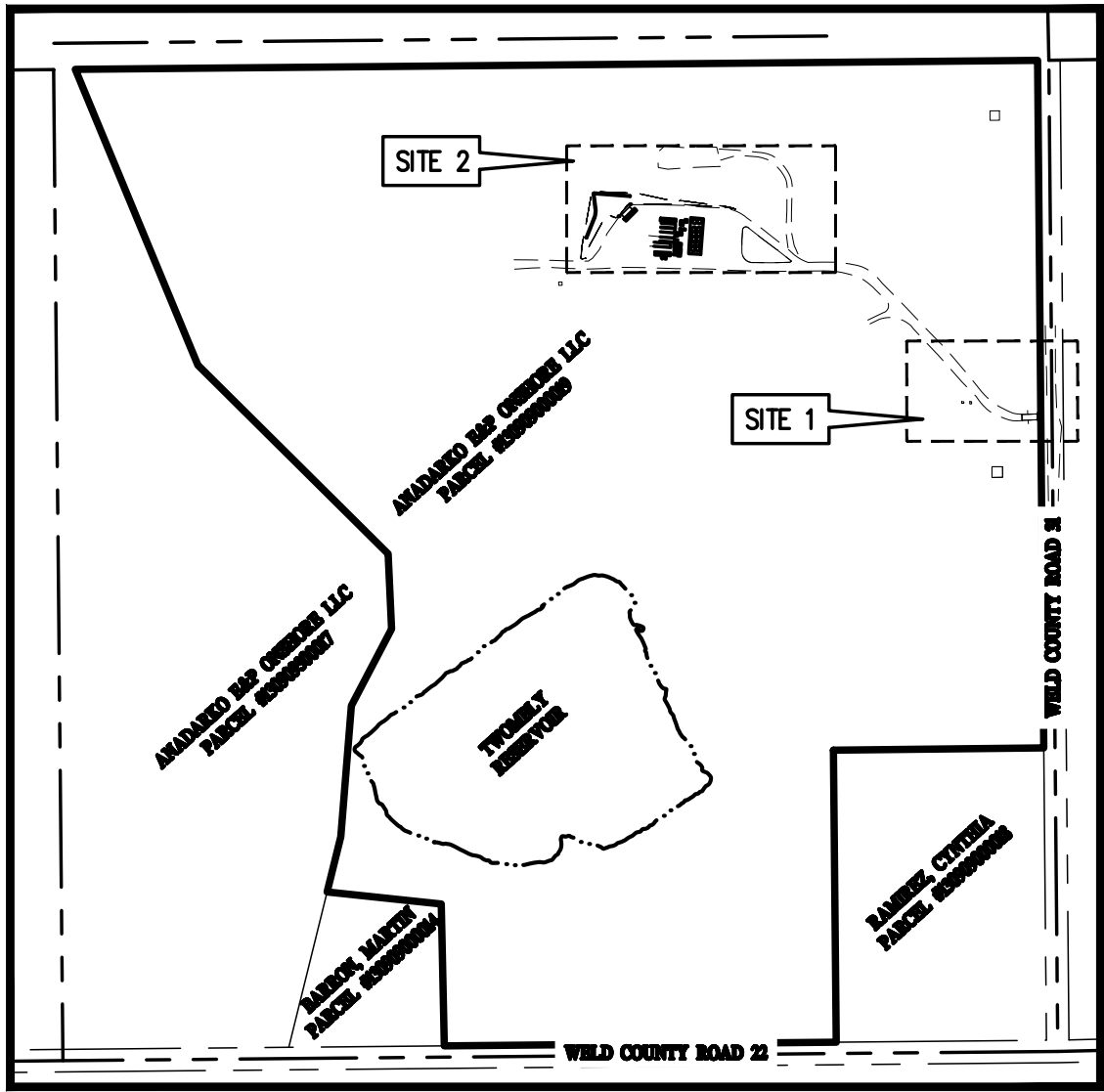
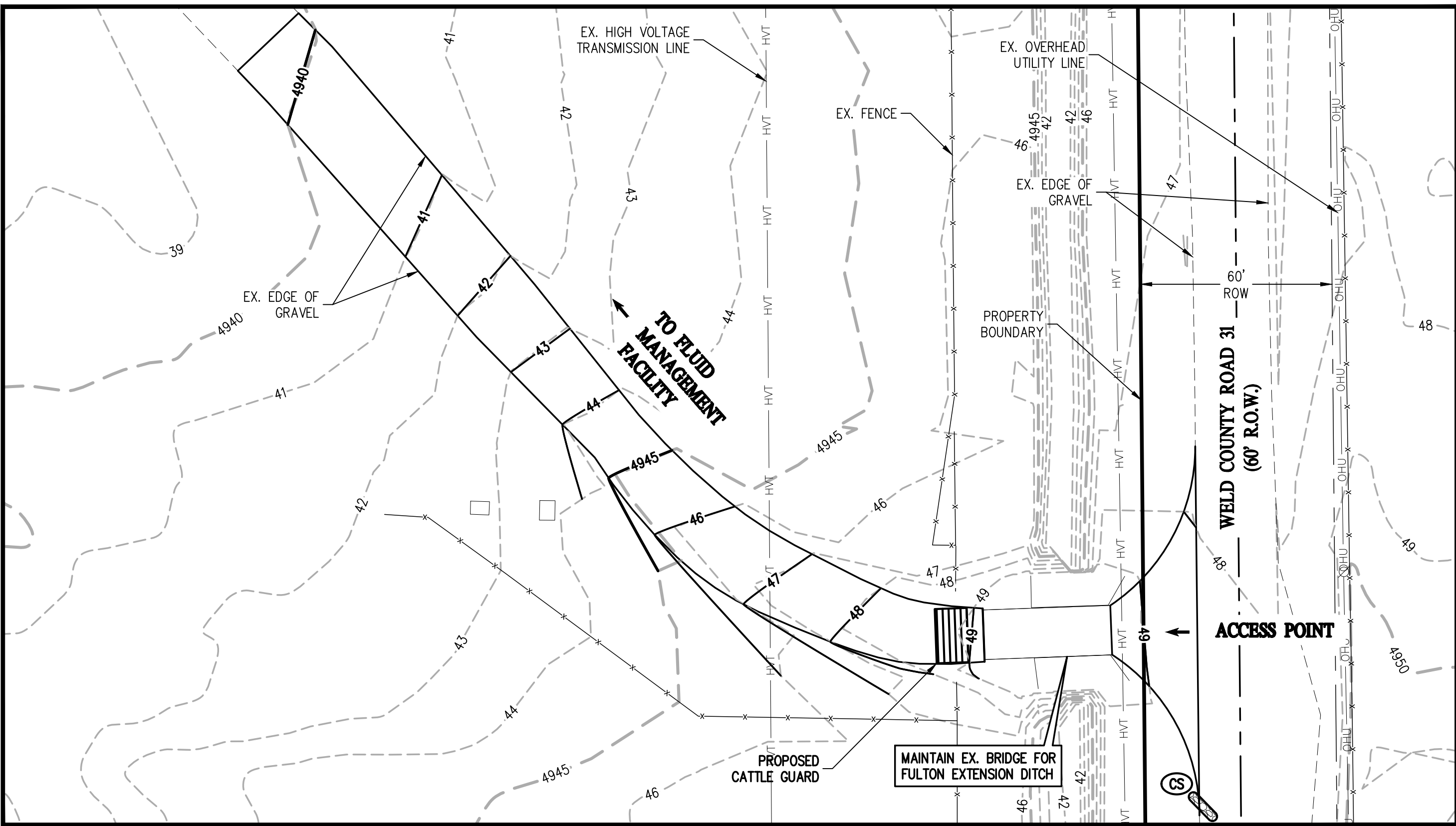
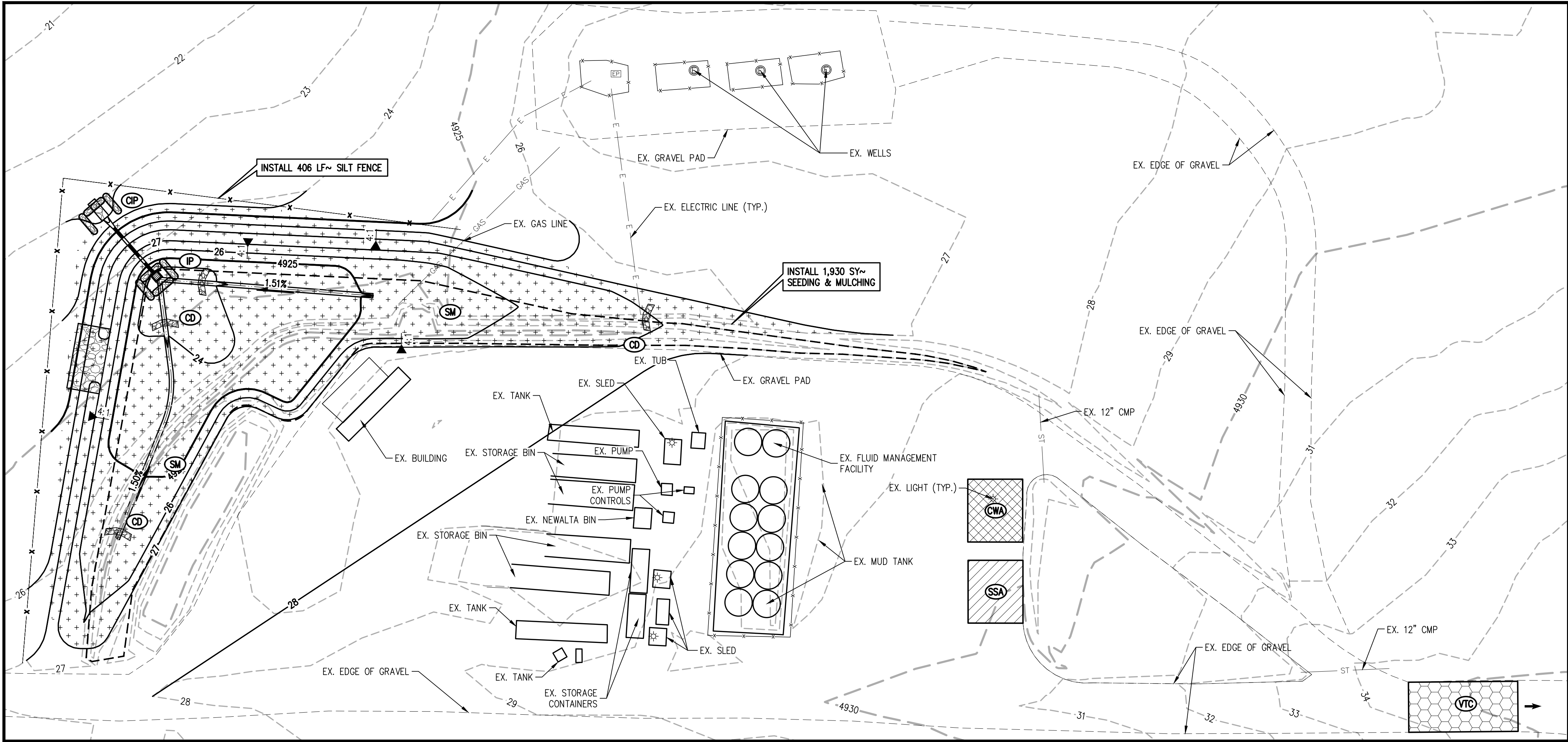
FOR AND ON BEHALF OF  
BASELINE CORPORATION  
INITIAL SUBMITTAL: 3/6/2017  
DRAWING SIZE: 24" x 36"  
SURVEY FIRM: BASELINE  
SURVEY DATE: 10/18/2016  
JOB NO.: C03251  
DRAWING NAME: 3251 CIVIL CDS.dwg  
SHEET: 5 OF 9

C5

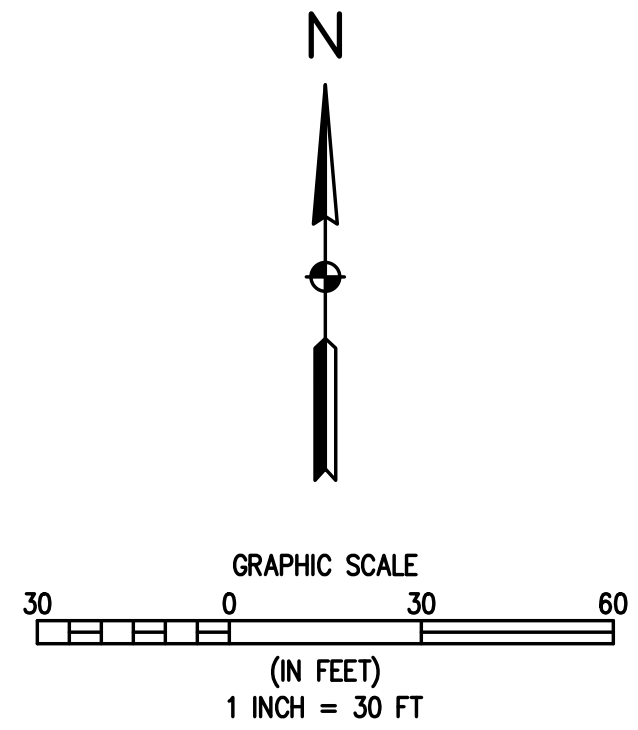


CONSTRUCTION DOCUMENTS  
FLUID MANAGEMENT FACILITY

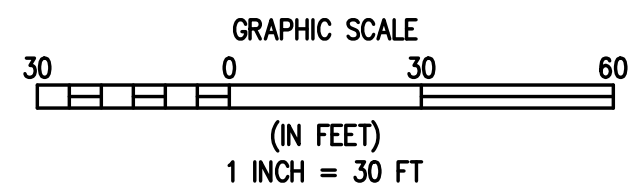
LOT B, RECORDED EXEMPTION NO. RE2263 , LOCATED IN THE SOUTHEAST CORNER OF  
SECTION 9, TOWNSHIP 2 NORTH, RANGE 66 WEST OF THE 6th PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO



KEYMAP  
1" = 500'



3  
C6 C6 EROSION CONTROL PLAN - 2



1  
C6 C6 EROSION CONTROL PLAN - 1

**BASELINE**

Engineering - Planning - Surveying  
1950 FORD STREET • GOLDEN, COLORADO 80401  
P. 303.940.9966 • F. 303.940.9968 • www.baselinecorp.com

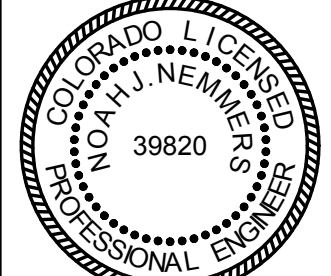
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ANADARKO E&P ONSHORE LLC

WELD COUNTY  
FLUID MANAGEMENT FACILITY  
SE 1/4 SECTION 9, T2N, R66W, LOT B OF RE-2263  
EROSION CONTROL PLAN

PREPARED UNDER THE DIRECT SUPERVISION OF



FOR AND ON BEHALF OF  
BASELINE CORPORATION  
INITIAL SUBMITTAL: 3/6/2017  
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SHEET: 6 OF 9

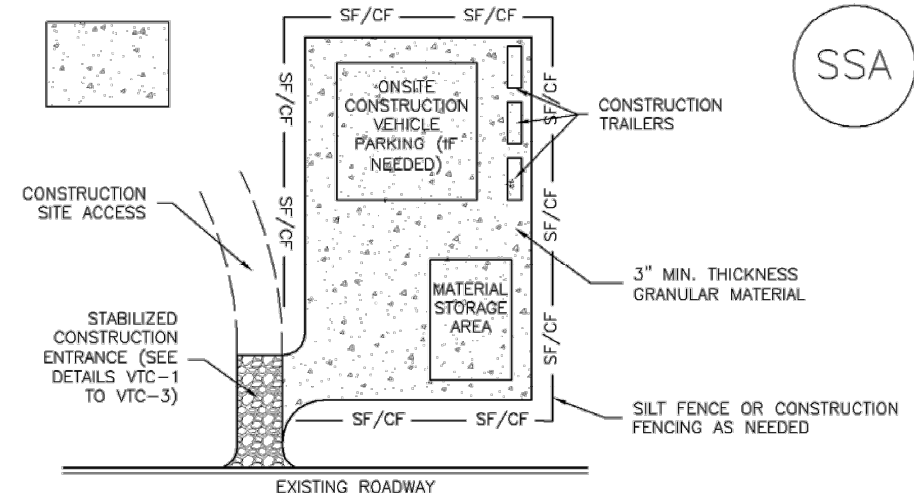


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# CONSTRUCTION DOCUMENTS

## FLUID MANAGEMENT FACILITY

LOT B, RECORDED EXEMPTION NO. RE2263 , LOCATED IN THE SOUTHEAST CORNER OF SECTION 9, TOWNSHIP 2 NORTH, RANGE 66 WEST OF THE 6th PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO



SSA-1. STABILIZED STAGING AREA

#### STABILIZED STAGING AREA INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
  - LOCATION OF STAGING AREA(S).
  - CONTRACTOR 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, AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.
6. ADDITIONAL PERIMETER BMPs MAY BE REQUIRED INCLUDING BUT NOT LIMITED TO SILT FENCE AND CONSTRUCTION FENCING AS NEEDED.

#### STABILIZED STAGING AREA MAINTENANCE NOTES

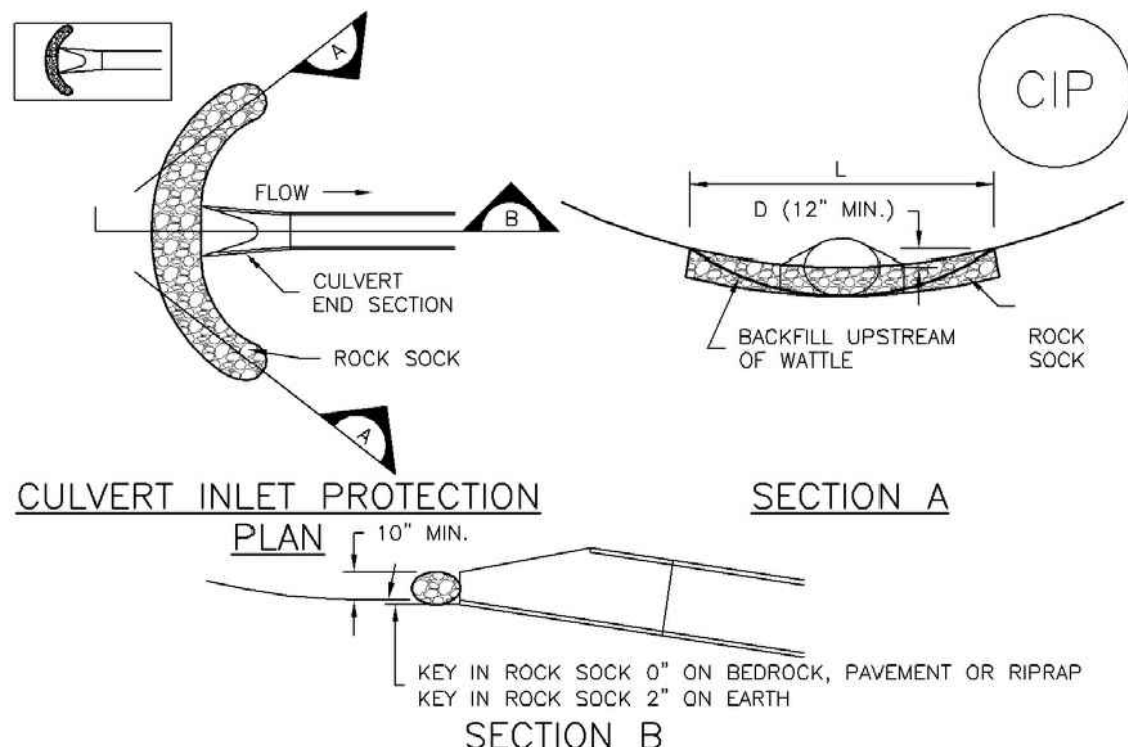
1. INSPECT BMPs EACH WORKDAY AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS 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 REPLACED OR REGRADED AS NECESSARY IF RUTTING OCCURS OR UNDERLYING SUBGRADE BECOMES EXPOSED.

#### 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 DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

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

### 1 C5/C9 STABILIZED STAGING AREA DETAIL



CIP-1. CULVERT INLET PROTECTION

#### CULVERT INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
  - LOCATION OF CULVERT INLET PROTECTION.
2. SEE ROCK SOCK DESIGN DETAIL FOR ROCK GRADATION REQUIREMENTS AND JOINTING DETAIL.

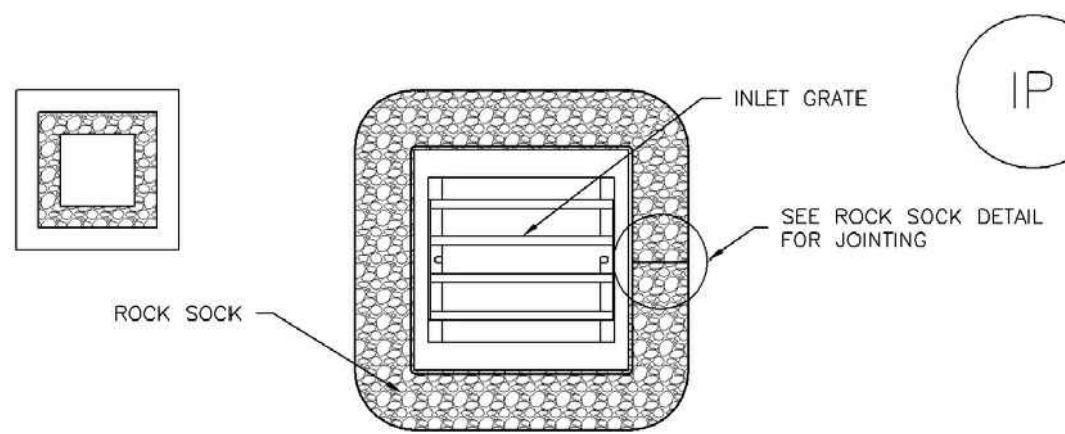
#### CULVERT INLET PROTECTION MAINTENANCE NOTES

1. 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.
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. SEDIMENT ACCUMULATED UPSTREAM OF THE CULVERT SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS 1/2 THE HEIGHT OF THE ROCK SOCK.
5. 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.

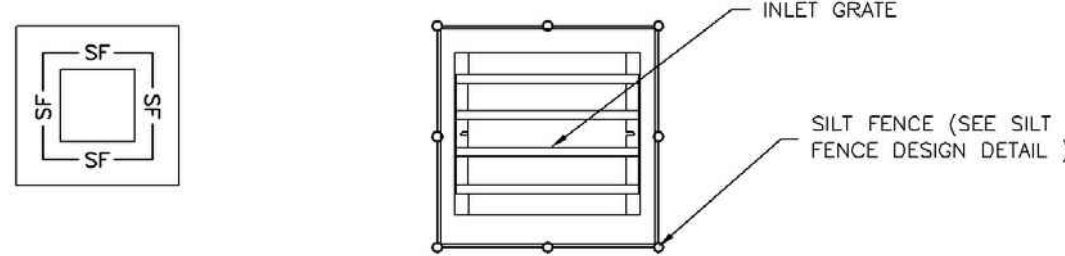
### 2 C5/C9 CULVERT INLET PROTECTION DETAIL



IP-3. ROCK SOCK SUMP/AREA INLET PROTECTION

#### ROCK SOCK SUMP/AREA INLET PROTECTION INSTALLATION NOTES

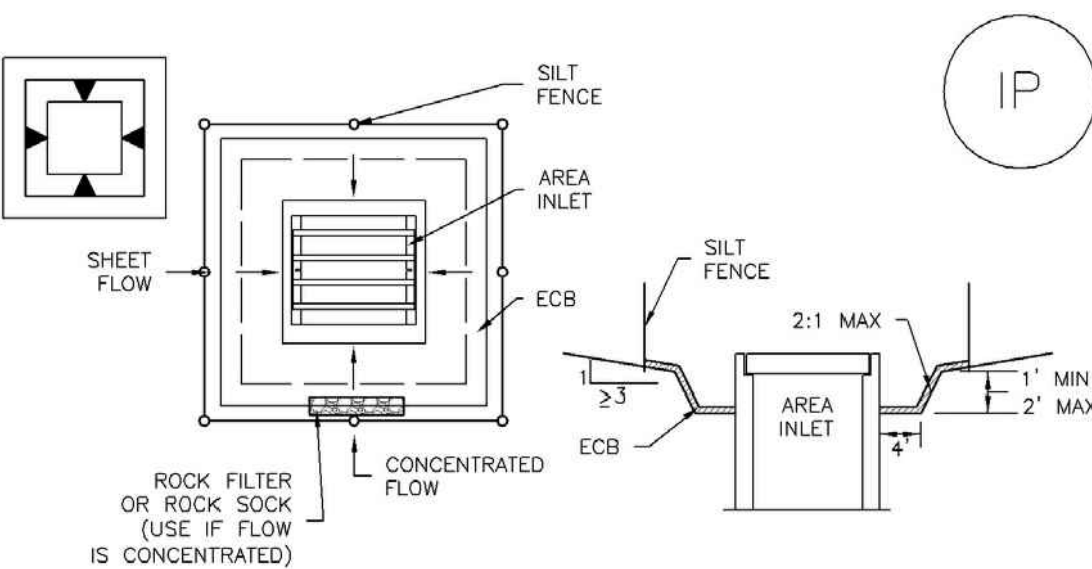
1. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF ROCK SOCKS FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.



IP-4. SILT FENCE FOR SUMP INLET PROTECTION

#### SILT FENCE INLET PROTECTION INSTALLATION NOTES

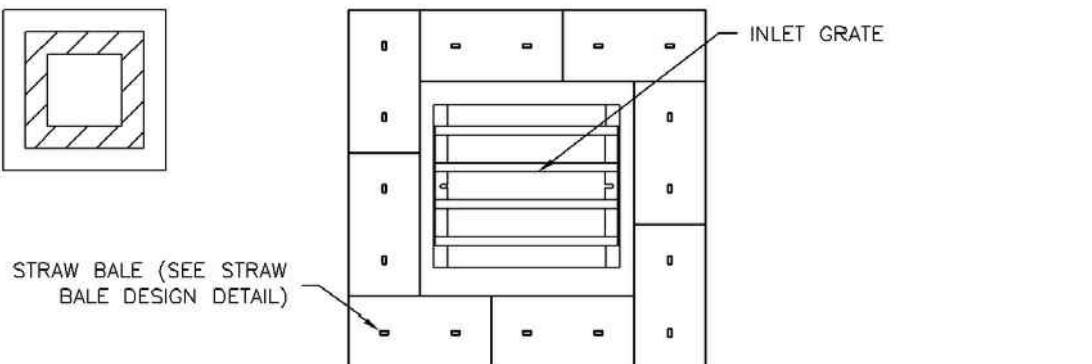
1. SEE SILT FENCE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. POSTS SHALL BE PLACED AT EACH CORNER OF THE INLET AND AROUND THE EDGES AT A MAXIMUM SPACING OF 3 FEET.
3. STRAW WATTLES/SEDIMENT CONTROL LOGS MAY BE USED IN PLACE OF SILT FENCE FOR INLETS IN PERVIOUS AREAS. INSTALL PER SEDIMENT CONTROL LOG DETAIL.



IP-5. OVEREXCAVATION INLET PROTECTION

#### OVEREXCAVATION INLET PROTECTION INSTALLATION NOTES

1. THIS FORM OF INLET PROTECTION IS PRIMARILY APPLICABLE FOR SITES THAT HAVE NOT YET REACHED FINAL GRADE AND SHOULD BE USED ONLY FOR INLETS WITH A RELATIVELY SMALL CONTRIBUTING DRAINAGE AREA.
2. WHEN USING FOR CONCENTRATED FLOWS, SHAPE BASIN IN 2:1 RATIO WITH LENGTH ORIENTED TOWARDS DIRECTION OF FLOW.
3. SEDIMENT MUST BE PERIODICALLY REMOVED FROM THE OVEREXCAVATED AREA.



IP-6. STRAW BALE FOR SUMP INLET PROTECTION

#### STRAW BALE BARRIER INLET PROTECTION INSTALLATION NOTES

1. SEE STRAW BALE DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
2. BALES SHALL BE PLACED IN A SINGLE ROW AROUND THE INLET WITH ENDS OF BALES TIGHTLY ABUTTING ONE ANOTHER.

#### GENERAL INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
  - LOCATION OF INLET PROTECTION.
  - TYPE OF INLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.6)
2. 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.
3. 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

1. 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.
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. 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 1/2 OF THE HEIGHT FOR STRAW BALES.
5. 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.
6. 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.

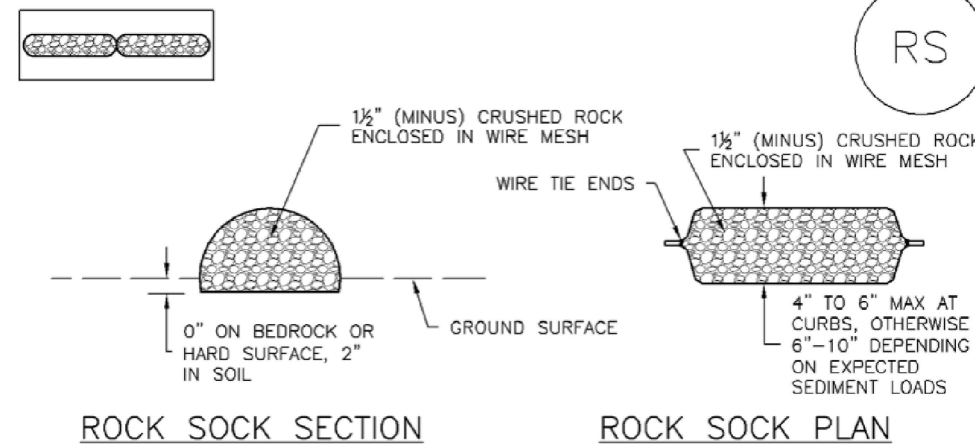
(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

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.

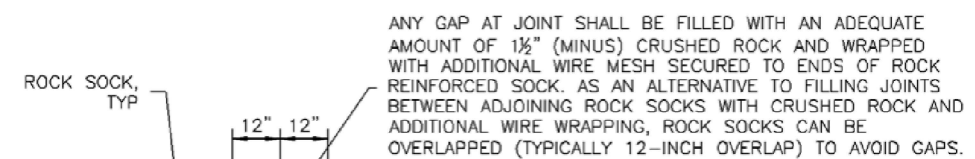
NOTE: SOME MUNICIPALITIES DISCOURAGE OR PROHIBIT THE USE OF STRAW BALES FOR INLET PROTECTION. CHECK WITH LOCAL JURISDICTION TO DETERMINE IF STRAW BALE INLET PROTECTION IS ACCEPTABLE.

### 3 C5/C9 INLET PROTECTION DETAIL



ROCK SOCK SECTION

ROCK SOCK PLAN



ROCK SOCK JOINTING

#### ROCK SOCK INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
  - LOCATION(S) OF ROCK SOCKS.
2. CRUSHED ROCK SHALL BE 1/2" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (1/4" MINUS).
3. WIRE MESH SHALL BE FABRICATED OF 10 GAGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF 1/2", RECOMMENDED MINIMUM ROLL WIDTH OF 48".
4. WIRE MESH SHALL BE SECURED USING "HOG RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS.
5. SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE.

RS-1. ROCK SOCK PERIMETER CONTROL

#### ROCK SOCK MAINTENANCE NOTES

1. 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.
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 SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.
5. SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 1/2 OF THE HEIGHT OF THE ROCK SOCK.
6. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
7. WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAILS 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 ROCK SOCK INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. UDFCD NEITHER ENDORSES NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS; 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.

### 4 C5/C9 ROCK SOCK DETAIL

Western Wheatgrass (Arriba, Barton, Rossara)	3 lbs. / acre
Little Bluestem (Cimarron, Camper, Blaze, Aldous)	2 lbs. / acre
Blue Grama (Hachital, Lovington)	2.5 lbs. / acre
Sideoats Grama (Vaughn, Butte, Niner, El Reno, Haskell)	2 lbs. / acre
Switchgrass (Patrifinder, Nebraska 28, Summer, Sunburst)	2 lbs. / acre
Green Needlegrass Grass (Lodonn)	2 lbs / acre
Sand Dropseed	0.25 lb / acre
Total:	13.75 lbs pls /acre

\*\* Double the seed mix for hydroseeding.

### 5 C5/C9 SEED MIX DETAIL

DESIGNED BY: NJN  
DRAWN BY: LDS  
CHECKED BY: NJN

DATE: 10/15/2018  
PREPARED BY: LTV

REVISION DESCRIPTION  
FINAL WELD COUNTY SUBMITTAL

ANADARKO E&P ONSHORE LLC

WELD COUNTY

FLUID MANAGEMENT FACILITY

SE 1/4 SECTION 9, T2N, R66W, LOT B OF RE-2263

EROSION CONTROL DETAILS I

PREPARED UNDER THE DIRECT SUPERVISION OF

COLORADO LICENSED PROFESSIONAL ENGINEER  
39820

FOR AND ON BEHALF OF  
BASILINE CORPORATION

INITIAL SUBMITTAL: 3/6/2017

DRAWING SIZE: 24" x 36"

SURVEY FIRM: SURVEY DATE: 10/18/2016

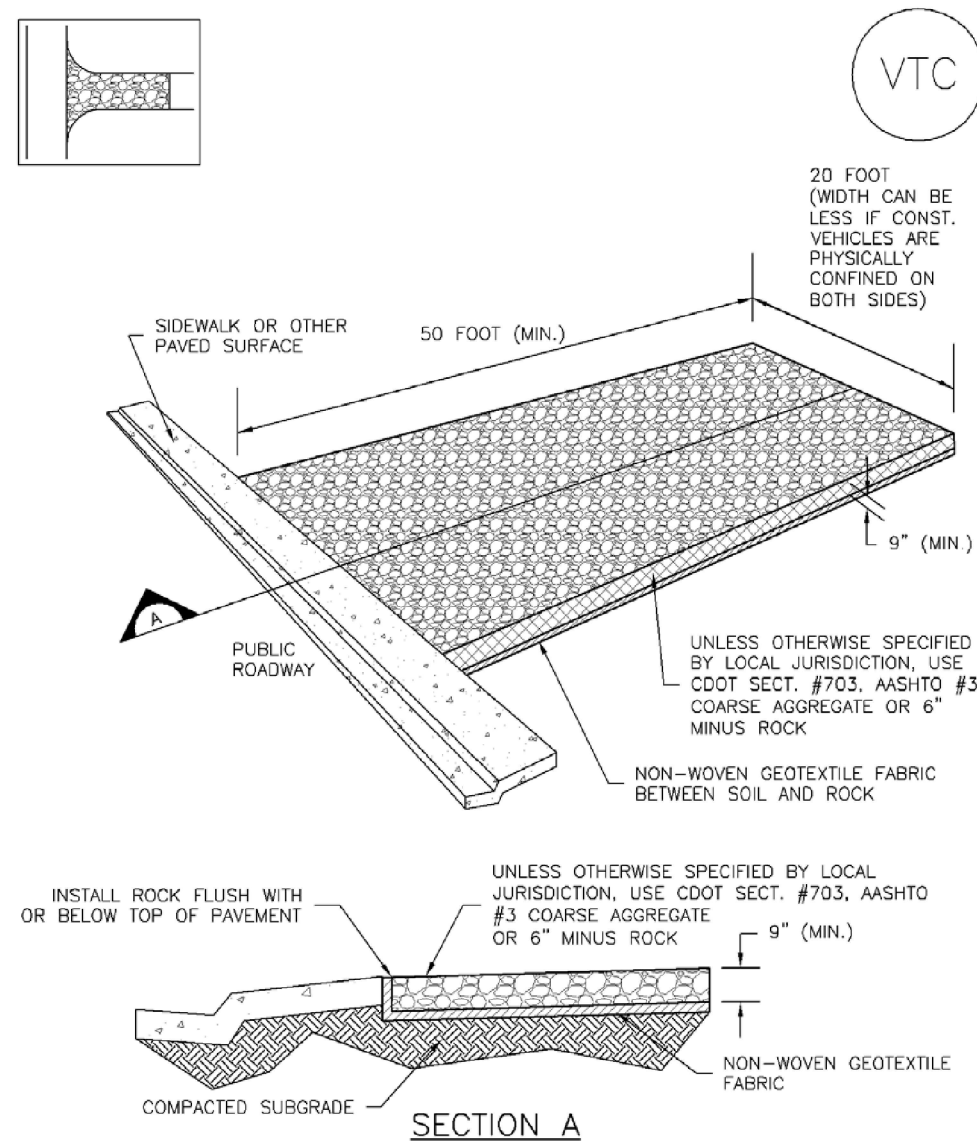
JOB NO.: C03251

DRAWING NAME: 3251 COVER & DETAILS.dwg

SHEET: 7 OF 9



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VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
  - LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).
  - TYPE OF CONSTRUCTION ENTRANCE(S)/EXIT(S) (WITH/WITHOUT WHEEL WASH, CONSTRUCTION MAT OR TRM).
2. CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH) WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.
3. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RIGHT-OF-WAYS.
4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
5. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.
6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT SECT. #703, AASHTO #3 COARSE AGGREGATE OR 6\"/>

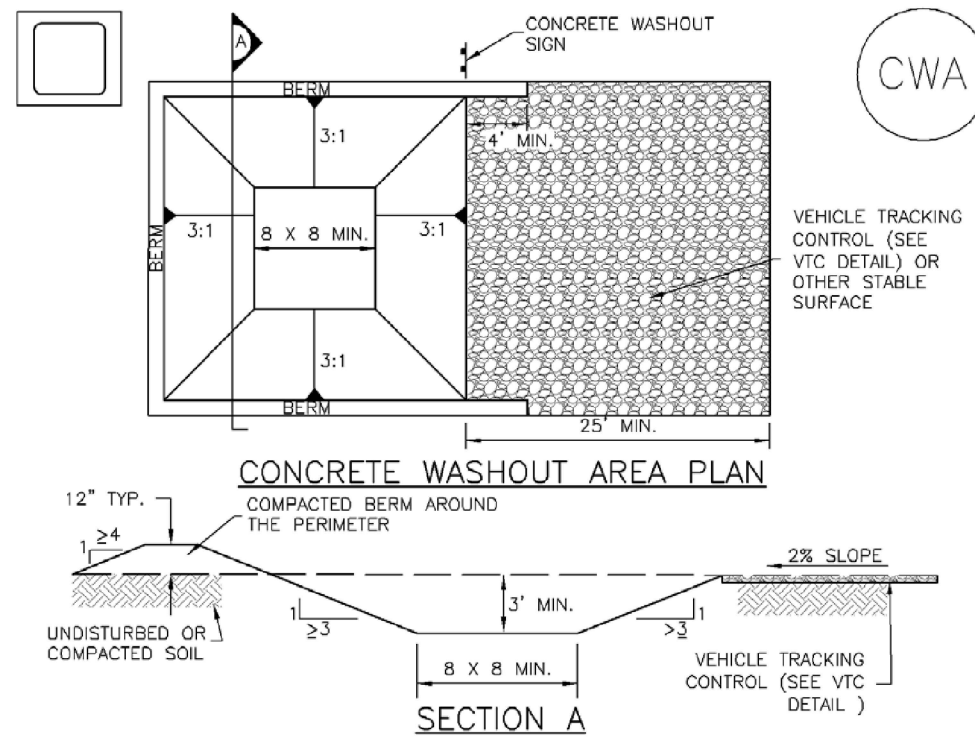
STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES

1. 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.
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 TO THE STABILIZED ENTRANCE/EXIT TO MAINTAIN A CONSISTENT DEPTH.
5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND AT THE END OF THE DAY BY SHOVELING OR SWEEPING. SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

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 CITY OF BROOMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

1  
C5 C8 VEHICLE TRACKING CONTROL DETAIL



CWA-1. CONCRETE WASHOUT AREA

CWA INSTALLATION NOTES

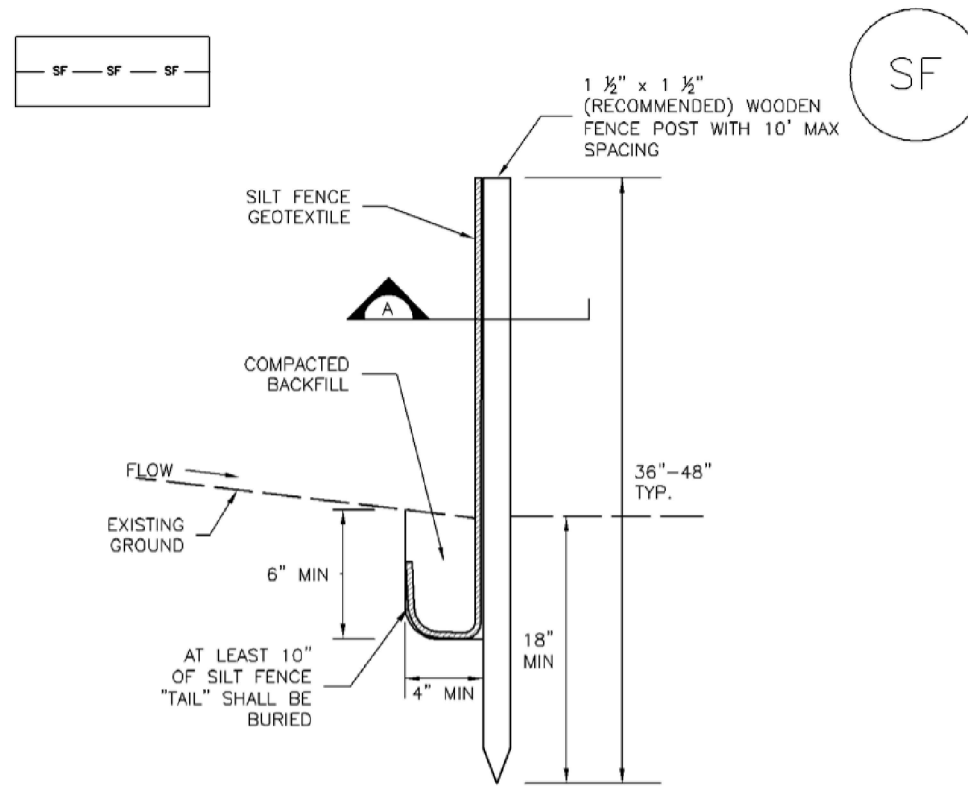
1. SEE PLAN VIEW FOR:
  - CWA INSTALLATION LOCATION.
2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR WATERBODY. DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. IF SITE CONSTRAINTS MAKE THIS UNFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE, THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR SURFACE STORAGE ALTERNATIVES USING PREFABRICATED CONCRETE WASHOUT DEVICES OR A LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.
3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.
4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT LEAST 3' DEEP.
5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.
6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.
7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

CWA MAINTENANCE NOTES

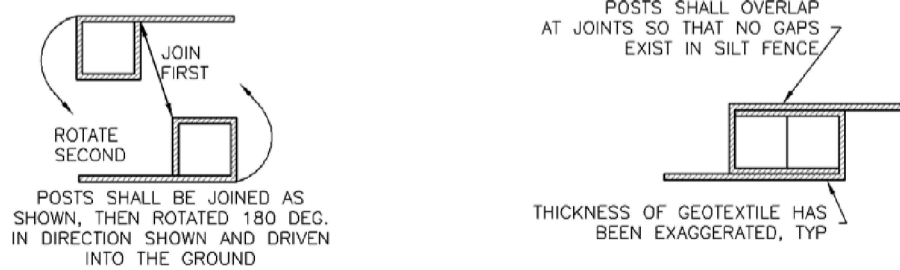
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS 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. THE CWA SHALL BE REPAIRED, CLEANED, OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR CONCRETE WASTE. CONCRETE MATERIALS, ACCUMULATED IN PIT, SHALL BE REMOVED ONCE THE MATERIALS HAVE REACHED A DEPTH OF 2'.
5. CONCRETE WASHOUT WATER, WASTED PIECES OF CONCRETE AND ALL OTHER DEBRIS IN THE SUBSURFACE PIT SHALL BE TRANSPORTED FROM THE JOB SITE IN A WATER-TIGHT CONTAINER AND DISPOSED OF PROPERLY.
6. THE CWA SHALL REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
7. WHEN THE CWA IS REMOVED, COVER THE DISTURBED AREA WITH TOP SOIL, SEED AND MULCH OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, COLORADO AND THE CITY OF PARKER, 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.

2  
C5 C8 CONCRETE WASHOUT AREA DETAIL



SILT FENCE



SECTION A

SF-1. SILT FENCE

SILT FENCE INSTALLATION NOTES

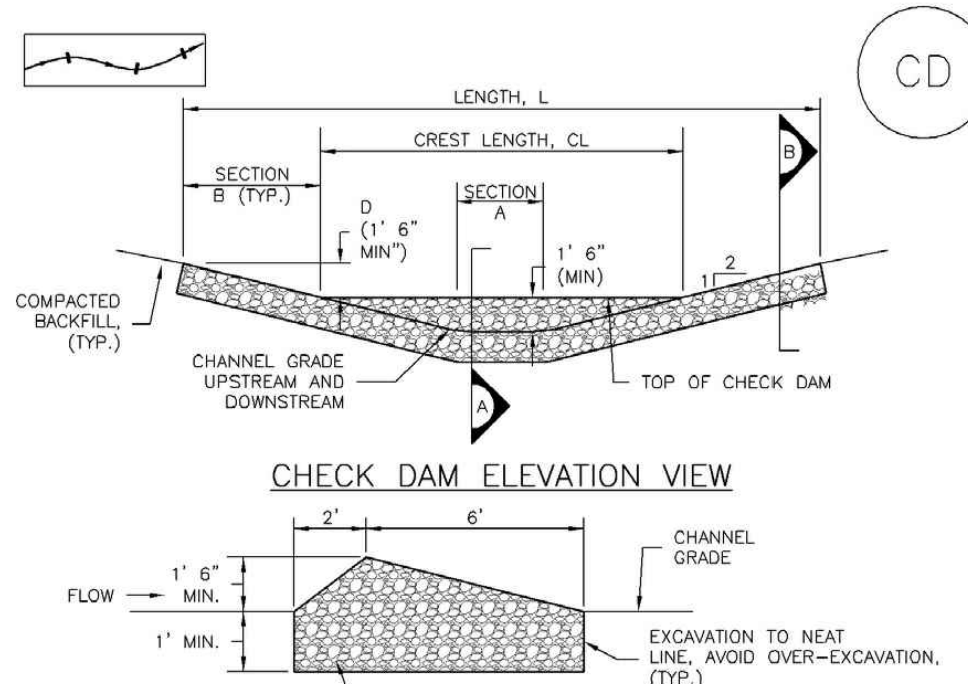
1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING. SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR PONDING AND DEPOSITION.
2. A UNIFORM 6\"/>
3. COMPACT ANCHOR TRENCH BY HAND WITH A \"JUMPING JACK\" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND.
4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.
5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1\"/>
6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A \"J-HOOK\". THE \"J-HOOK\" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP RUNOFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').
7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

SILT FENCE MAINTENANCE NOTES

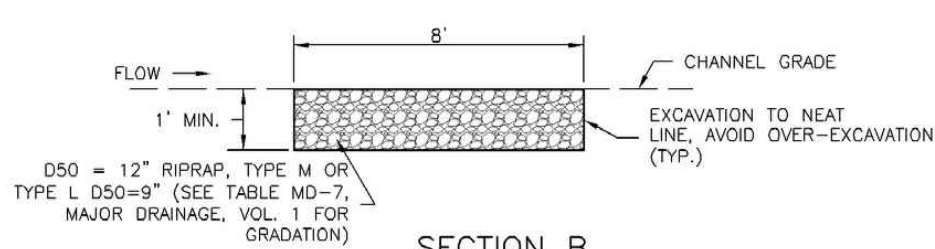
1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS 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. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 6\"/>
5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING, TEARING, OR COLLAPSE.
6. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER SEDIMENT CONTROL BMP.
7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, 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.

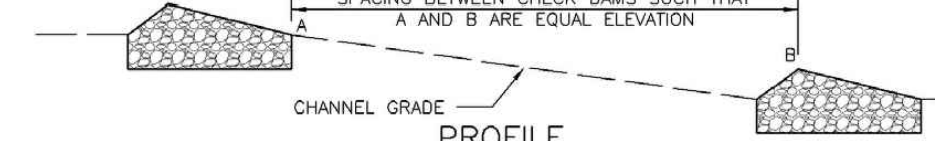
3  
C5 C8 SILT FENCE DETAIL



SECTION A



SECTION B



CD-1. CHECK DAM

CHECK DAM INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
  - LOCATION OF CHECK DAMS.
  - CHECK DAM TYPE (CHECK DAM OR REINFORCED CHECK DAM).
  - LENGTH (L), CREST LENGTH (CL), AND DEPTH (D).
2. CHECK DAMS INDICATED ON INITIAL SWMP SHALL BE INSTALLED AFTER CONSTRUCTION FENCE, BUT PRIOR TO ANY UPSTREAM LAND DISTURBING ACTIVITIES.
3. RIPRAP UTILIZED FOR CHECK DAMS SHOULD BE OF APPROPRIATE SIZE FOR THE APPLICATION. TYPICAL TYPES OF RIPRAP USED FOR CHECK DAMS ARE TYPE M (D50 12\") OR TYPE L (D50 9\"/>
4. RIPRAP PAD SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 1'.
5. THE ENDS OF THE CHECK DAM SHALL BE A MINIMUM OF 1' 6\"/>

CHECK DAM MAINTENANCE NOTES

1. 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.
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. SEDIMENT ACCUMULATED UPSTREAM OF THE CHECK DAMS SHALL BE REMOVED WHEN THE SEDIMENT DEPTH IS WITHIN 5\"/>
5. CHECK DAMS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
6. WHEN CHECK DAMS ARE REMOVED, EXCAVATIONS SHALL BE FILLED WITH SUITABLE COMPACTED BACKFILL. DISTURBED AREA SHALL BE SEEDED AND MULCHED AND COVERED WITH GEOTEXTILE OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(DETAILS ADAPTED FROM DOUGLAS COUNTY, 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.

4  
C5 C8 CHECK DAM DETAIL

DESIGNED BY NJN  
DRAWN BY LDS  
CHECKED BY NJN

DATE 10/15/2018

PREPARED BY LTV

REVISION DESCRIPTION

FINAL WELD COUNTY SUBMITTAL

WELD COUNTY

ANADARKO E&P ONSHORE LLC

FLUID MANAGEMENT FACILITY

SE 1/4 SECTION 9, T2N, R66W, LOT B OF RE-2263

EROSION CONTROL DETAILS II

PREPARED UNDER THE DIRECT SUPERVISION OF

COLORADO LICENSED PROFESSIONAL ENGINEER  
39820

FOR AND ON BEHALF OF  
BASELINE CORPORATION

INITIAL SUBMITTAL 3/6/2017

DRAWING SIZE 24\"/>

SURVEY FIRM SURVEY DATE  
BASELINE 10/18/2016

JOB NO. C03251

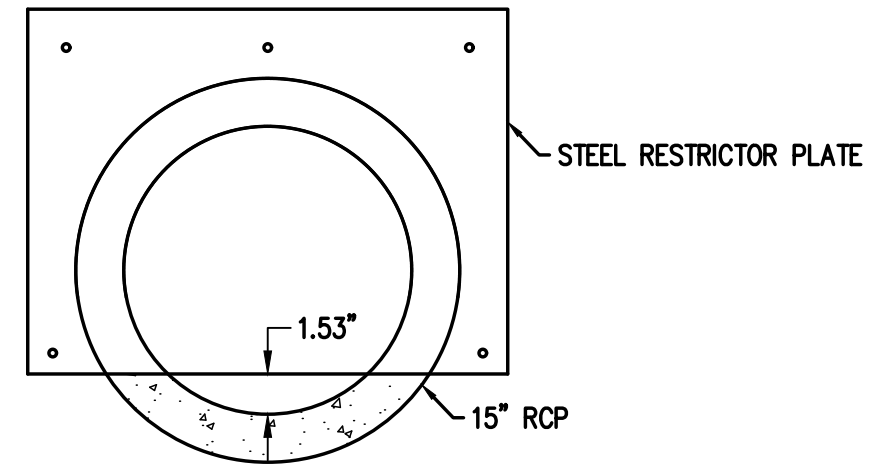
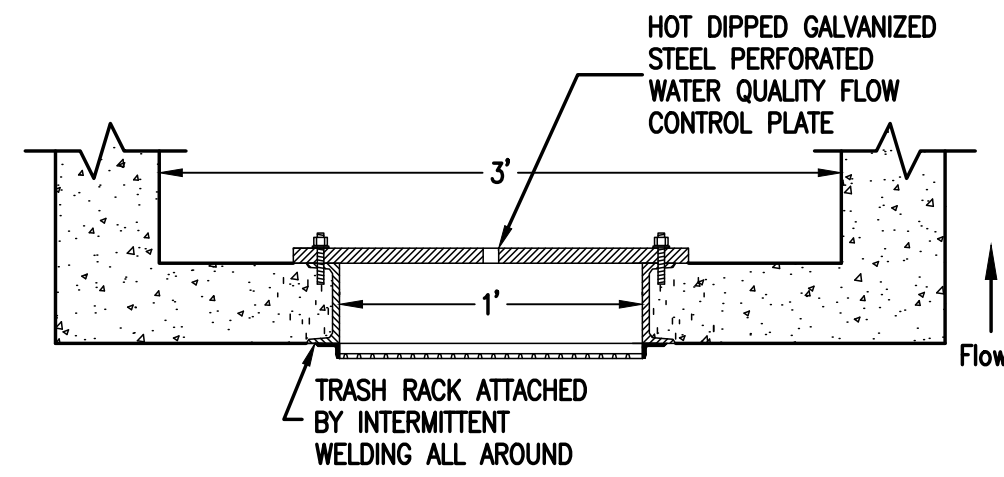
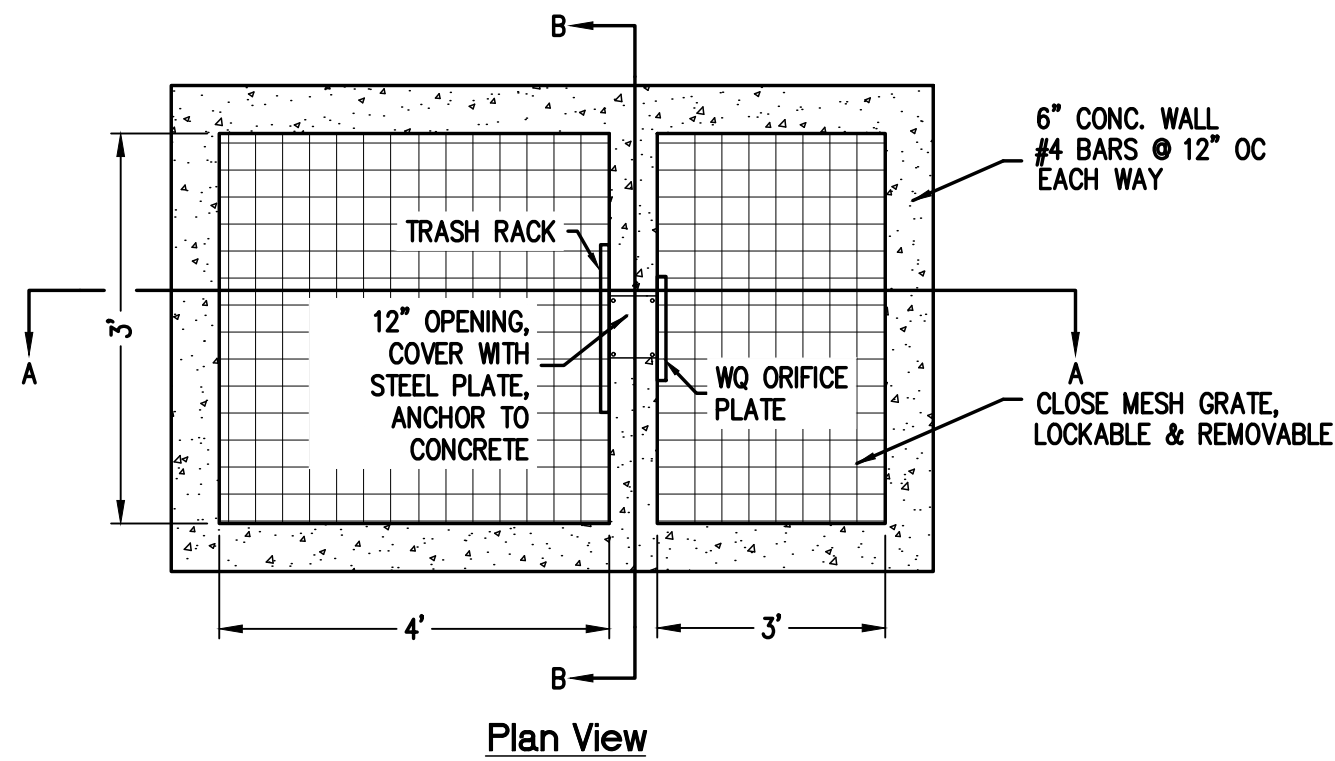
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SHEET 8 OF 9

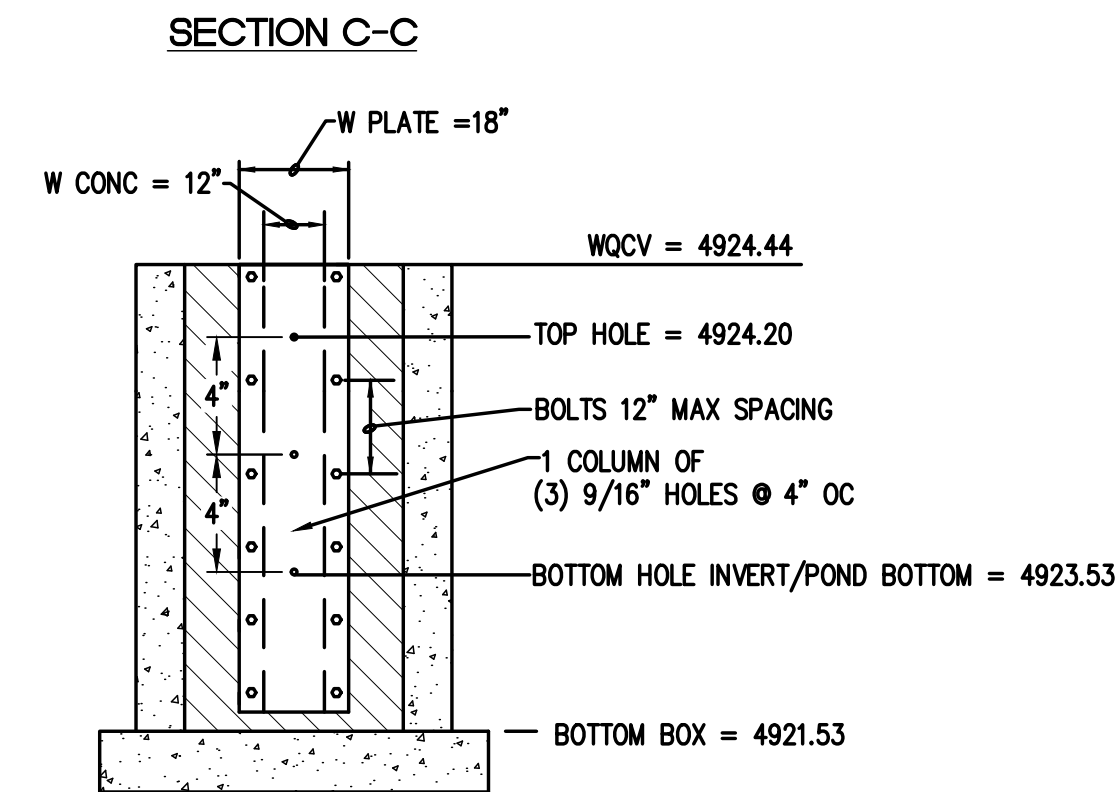
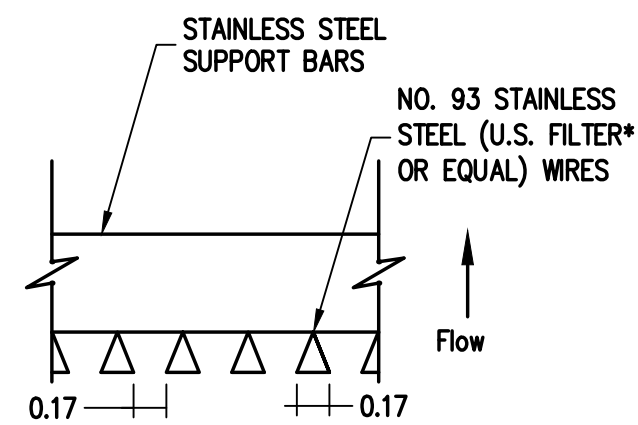
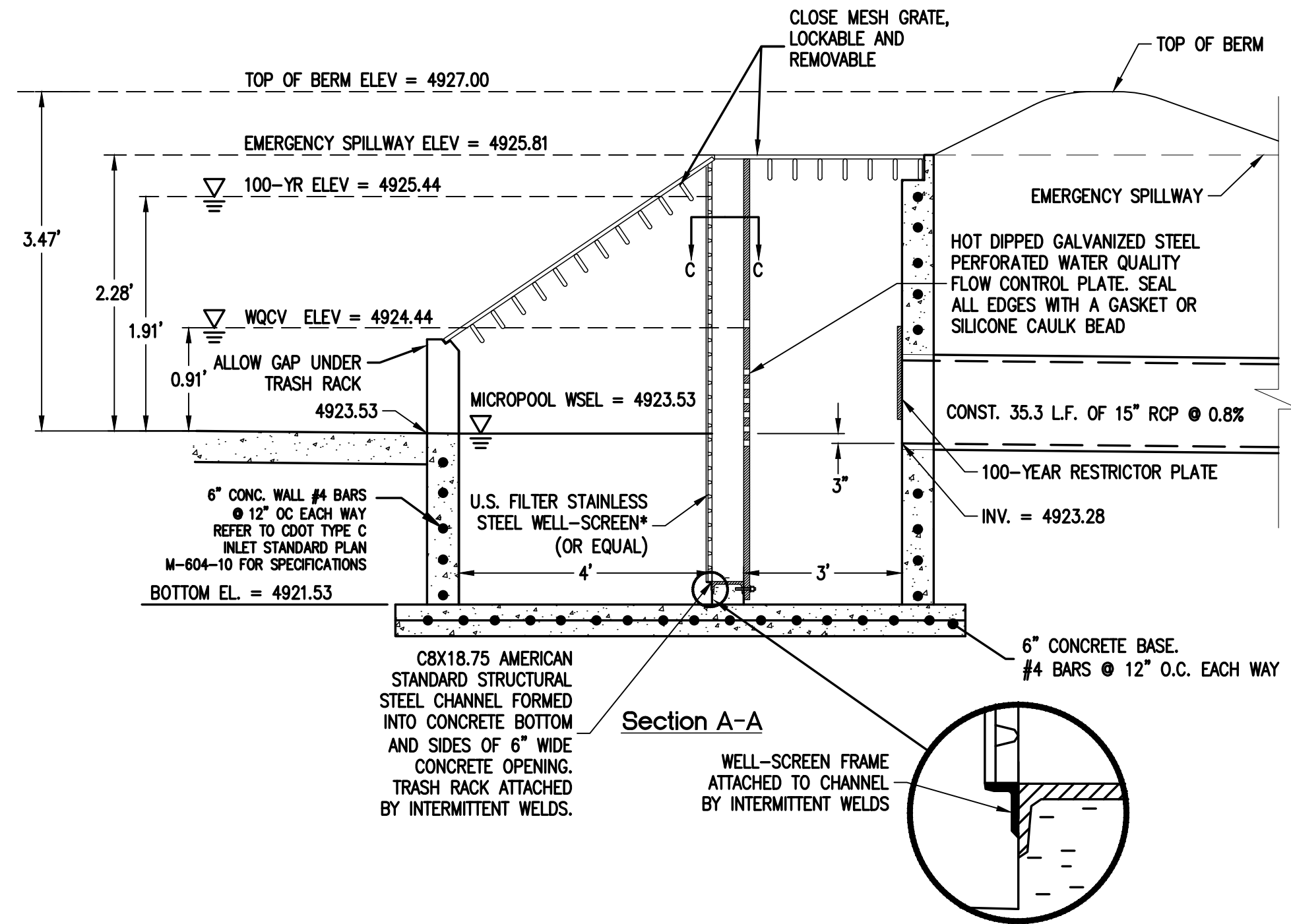


# CONSTRUCTION DOCUMENTS FLUID MANAGEMENT FACILITY

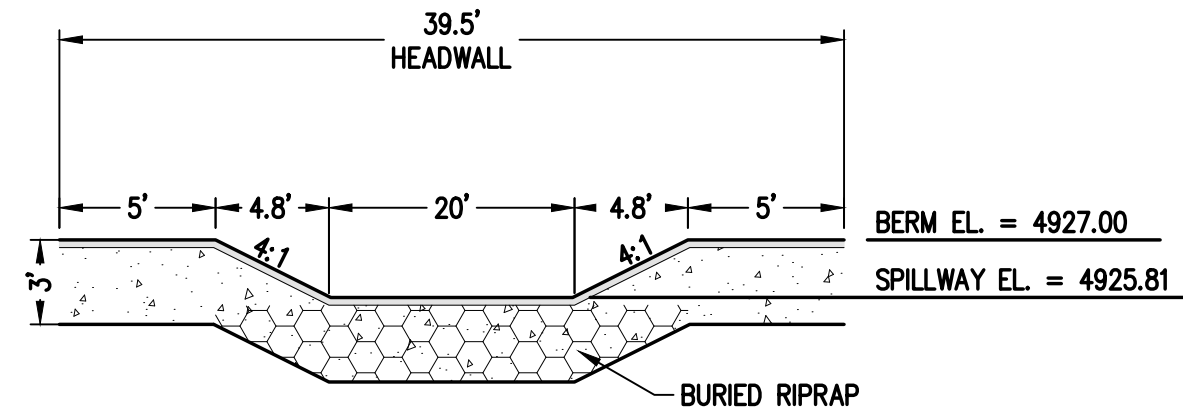
LOT B, RECORDED EXEMPTION NO. RE2263 , LOCATED IN THE SOUTHEAST CORNER OF  
SECTION 9, TOWNSHIP 2 NORTH, RANGE 66 WEST OF THE 6th PRINCIPAL MERIDIAN, WELD COUNTY, COLORADO



3  
C9/C9 OUTLET RESTRICTOR PLATE DETAIL  
NOT TO SCALE

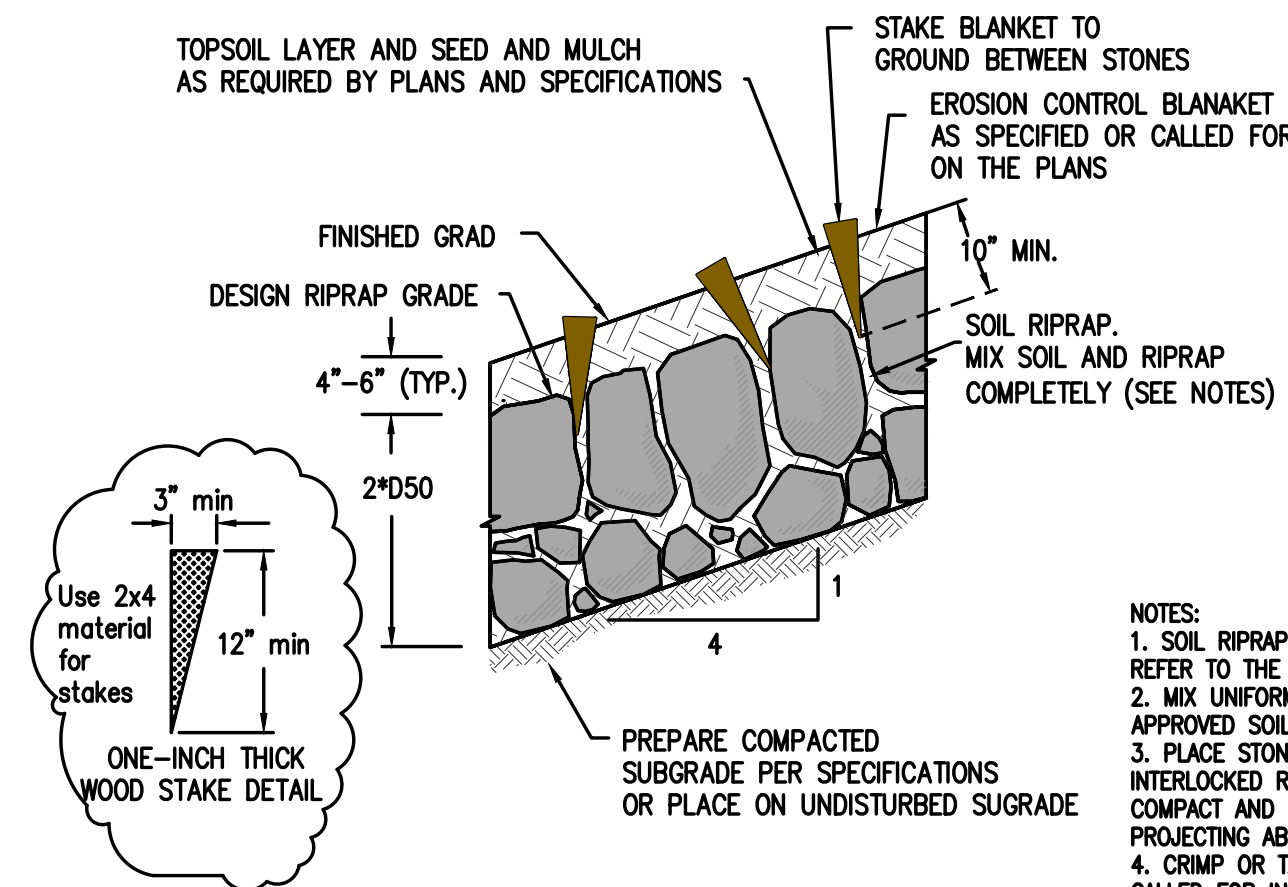


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C9/C9 WATER QUALITY OUTLET DETAIL  
NOT TO SCALE

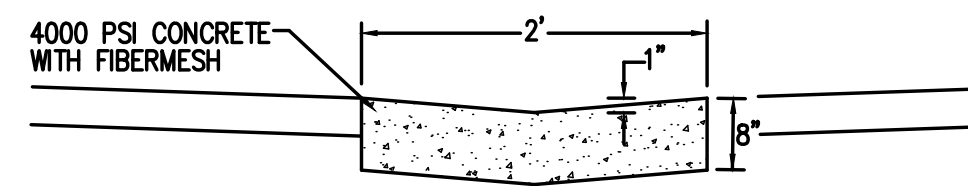


- NOTES:
1. CONCRETE CUTOFF WALL SHALL BE 3' DEEP, 8" THICK, AND EXTEND 5' INTO THE EMBANKMENT ON EACH SIDE OF THE SPILLWAY.
  2. RIPRAP SHALL BE TYPE H, MEDIAN SIZE 18".
  3. MINIMUM RIPRAP WIDTH SHALL MATCH TOP WIDTH OF SPILLWAY.
  4. BURIED RIPRAP SHALL EXTEND 14' FROM THE CUTOFF WALL DOWN THE EMBANKMENT AS SHOWN ON THE DRAINAGE PLAN (##) AND BE INSTALLED PER DETAIL 5 ON THIS SHEET.

4  
C9/C9 EMERGENCY SPILLWAY DETAIL  
NOT TO SCALE



5  
C9/C9 BURIED RIP RAP DETAIL  
NOT TO SCALE



6  
C6/C6 2' CONCRETE TRICKLE CHANNEL  
NO SCALE

**BASELINE**  
Engineering - Planning - Surveying

1650 FORD STREET • GOLDEN, COLORADO 80401  
P. 303.940.9966 • F. 303.940.9968 • www.baselinecorp.com

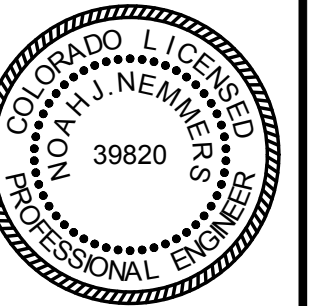
DESIGNED BY: NJN  
DRAWN BY: LDS  
CHECKED BY: NJN

DATE: 10/15/2018  
PREPARED BY: LTV

REVISION DESCRIPTION  
FINAL WELD COUNTY SUBMITTAL

ANADARKO E&P ONSHORE LLC  
WELD COUNTY  
FLUID MANAGEMENT FACILITY  
SE 1/4 SECTION 9, T2N, R66W, LOT B OF RE-2263  
OUTLET DETAILS

PREPARED UNDER THE DIRECT SUPERVISION OF



FOR AND ON BEHALF OF  
BASELINE CORPORATION  
INITIAL SUBMITTAL: 3/6/2017  
DRAWING SIZE: 24" x 36"  
SURVEY FIRM: BASELINE  
SURVEY DATE: 10/18/2016  
JOB NO.: C03251  
DRAWING NAME: 3251 COVER & DETAILS.dwg  
SHEET: 9 OF 9

C9