

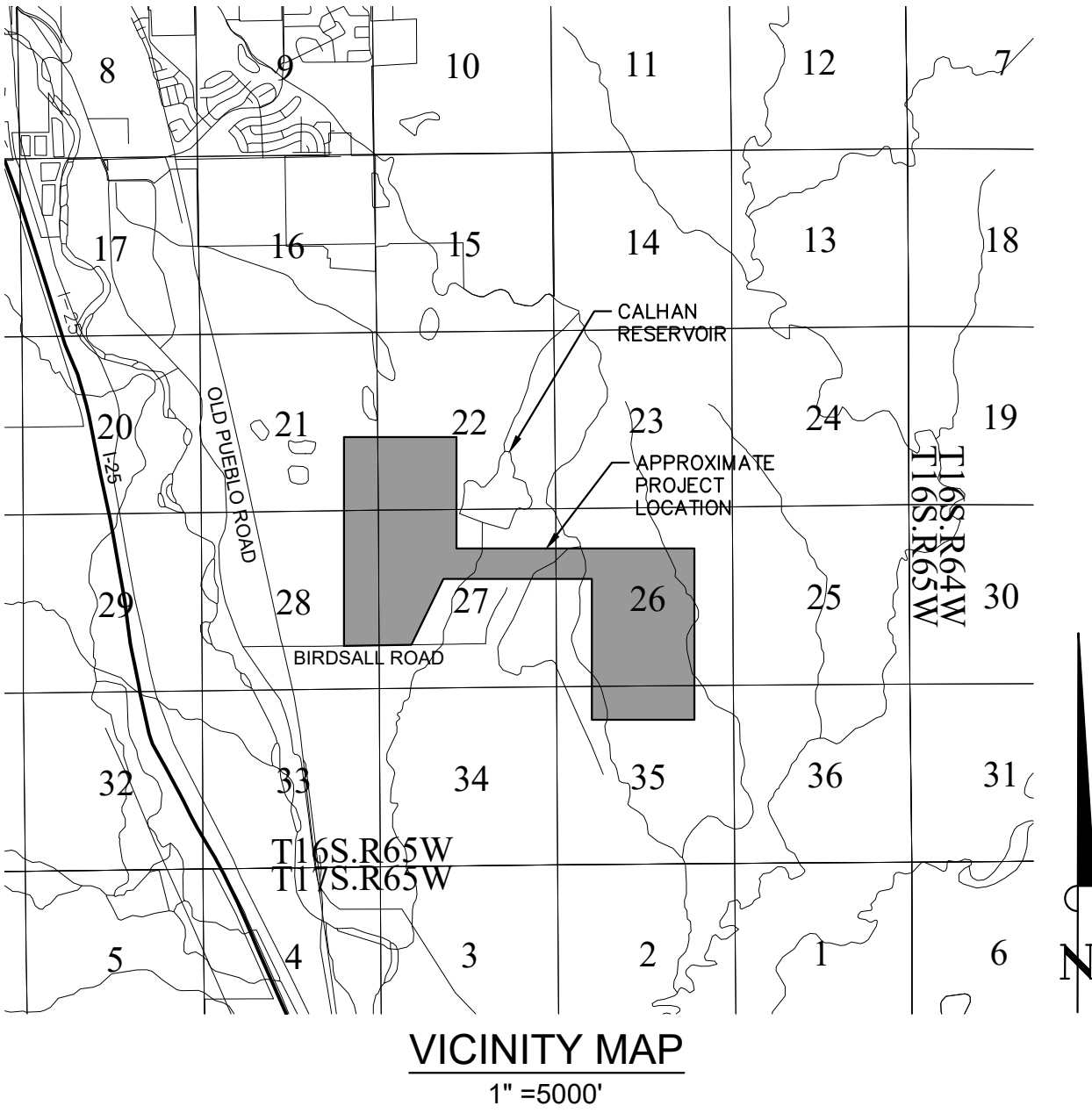
STANDARD NOTES FOR EL PASO COUNTY GRADING AND

EROSION CONTROL PLANS:

- CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM PLANNING AND COMMUNITY DEVELOPMENT (PCD) AND A PRE-CONSTRUCTION CONFERENCE IS HELD WITH PCD INSPECTORS.
- 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 TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
- 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. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER, SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
- ONCE THE ESQCP HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPS) AS INDICATED ON THE 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 DSD INSPECTIONS STAFF.
- SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 21 CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEEDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPS SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED.
- TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO STANDARDS AND SPECIFICATION PRESCRIBED IN THE DCM VOLUME II AND THE ENGINEERING CRITERIA MANUAL (ECM) APPENDIX I.
- ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMPS IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME II AND IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN (SWMP).
- ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMPS AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SWMP AND THE DCM VOLUME II AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION.
- ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE 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.
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
- BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER 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. BMPS MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- 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.
- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM 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 CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
- BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
- NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCHLINE.
- INDIVIDUALS 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 INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
- PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY TERRACON CONSULTANTS AND SHALL BE CONSIDERED A PART OF THESE PLANS. REPORT NUMBER 23175117, DATED MAY 21, 2018.
- AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 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  
WOOD -PERMITS  
4300 CHERRY CREEK DRIVE SOUTH  
DENVER, CO 80246-1530  
ATTN: PERMITS UNIT

PALMER SOLAR  
GEC PLAN

SITUATED IN A PORTION OF THE SECTIONS 21, 22, 26, 27, 28, 35,  
TOWNSHIP 16 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL  
MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO  
FEBRUARY 22, 2019



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CONTACTS:

ENGINEER:  
KIMLEY-HORN AND ASSOCIATES, INC.  
2 NEVADA NORTH AVE., SUITE 300  
COLORADO SPRINGS, CO 80903  
TEL: (719) 453-0182  
CONTACT: ERIC GUNDERSON, P.E.

EL PASO COUNTY ENGINEERING:  
3275 AKERS DR.  
COLORADO SPRINGS, CO 80922  
PHONE: (719) 520-7877  
CONTACT: JEFF RICE

SURVEYOR:  
CLARK LAND SURVEYING, INC.  
177 S. TIFFANY DRIVE, UNIT 1  
PUEBLO WEST, CO 81007  
TEL: (719) 582-1270  
CONTACT: NATHANIEL MAESTAS, PLS

DEVELOPER:  
CSI CONSTRUCTION GROUP  
1710 29th STREET, SUITE 1068  
BOULDER, CO 80301  
TEL: (720) 838-2285  
CONTACT: DARNELL EVERETT

GEOTECHNICAL ENGINEER:  
TERRACON CONSULTANTS, INC.  
4172 CENTER PARK DRIVE  
COLORADO SPRINGS, CO 80916  
TEL: (719) 597-2116  
CONTACT: ROBERT HERNANDEZ, PE

LAND AREA:

30,970,372 SQ. FT. OR 711 ACRES MORE OR LESS

BASIS OF BEARING:

BEARINGS AS USED HEREIN ARE BASED ON THE WEST LINE OF THE NORTHWEST QUARTER (NW¼) OF SECTION 27, TOWNSHIP 16 SOUTH, RANGE 65 WEST OF THE 6TH P.M., BEING MONUMENTED AT THE NORTH END BY A FOUND 2-1/2" ALUMINUM CAP STAMPED "PLS 22095", FLUSH WITH GRADE, AND AT THE SOUTH END BY A FOUND 2-1/2" ALUMINUM CAP STAMPED "PLS 22095, FLUSH WITH GRADE, AND MEASURED TO BEAR S00°50'46"E, A DISTANCE OF 2643.10 FEET.

BENCHMARK:

SOUTHWEST CORNER OF SECTION 22, T16S, R65W. BEING MONUMENTED BY A 2-1/2" ALUMINUM CAP STAMPED "PLS 22095" ELEVATION: 5494.00 (NAVD 88).

LEGAL DESCRIPTION

SITUATION IN A PORTION SECTIONS 21, 22, 26, 27, 28, 35, TOWNSHIP 16 SOUTH, RANGE 65 WEST OF THE 6TH PRINCIPAL MERIDIAN, COUNTY OF EL PASO, STATE OF COLORADO

SOIL TYPE:

THE SOIL ON SITE IS USGS HYDROLOGIC SOIL GROUPS C& D.

FLOOD ZONE DESIGNATION

FEDERAL EMERGENCY MANAGEMENT AGENCY, FLOOD INSURANCE RATE MAP, MAP NUMBERS 08041C0970G & 08041C1160G EFFECTIVE DATE DECEMBER 7, 2018 INDICATES THIS PARCEL OF LAND IS LOCATED IN ZONE X (OUT OF THE 500 YEAR FLOODPLAIN)

SITE INFORMATION:

TIMING:

ANTICIPATED STARTING AND COMPLETION TIME PERIOD OF SITE GRADING:  
START: SPRING 2019  
END: FALL 2019

EXPECTED DATE ON WHICH THE FINAL STABILIZATION WILL BE COMPLETE:  
SUMMER 2020

AREAS:

TOTAL WSE-0 AREA: 711 ACRES  
TOTAL DISTURBED AREA: 559 ACRES  
TOTAL AREA OF PERMANENT INFRASTRUCTURE: 407 ACRES

RECEIVING WATERS:

NAME OF RECEIVING WATERS: FOUNTAIN CREEK

DESCRIPTION OF EXISTING VEGETATION:

THE EXISTING SITE IS CURRENTLY UNDEVELOPED AND GROUND COVER CONSISTS OF 100% WEEDS, BRUSH, GRASSES, AND TREES.

DESCRIPTION OF PERMANENT BMPS:

NATURAL VEGETATION AND CHECK DAMS

|   |  |  |
|---|--|--|
| <b>OWNER'S SIGNATURE BLOCK</b>  |  |  |
| THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.  |  |  |
| DATE  |  |  |
| <b>ENGINEER'S SIGNATURE BLOCK</b>   |  |  |
| THE 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 REPORT. |  |  |
| ERIC GUNDERSON, PE - KIMLEY-HORN AND ASSOCIATES, INC. DATE  |  |  |
| <b>EL PASO COUNTY REVIEW STATEMENT</b>  |  |  |
| 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, AND ENGINEERING CRITERIA MANUAL AS AMENDED.   |  |  |
| DATE  |  |  |

|   |              |                         |
|---|--------------|-------------------------|
| <b>PALMER SOLAR<br/>GEC PLAN COVER<br/>SHEET<br/>EL PASO COUNTY, CO</b>   |              |                         |
| <b>Kimley»Horn</b>  |              |                         |
| © 2019 KIMLEY-HORN AND ASSOCIATES, INC.<br>2 N. NEVADA AVENUE, SUITE 300<br>COLORADO SPRINGS, CO 80903 (719) 453-0180 |              |                         |
| DESIGNED<br>EJG   | DRAWN<br>KRK | CHECKED<br>EJG          |
| SCALE (H):<br>SCALE (V):<br>DATE:<br>FEBRUARY 22, 2019  |              | SHEET NO.<br><b>200</b> |
| PROJECT NO.<br>096495003  |              |                         |
| DWG. NAME<br>096495003_EC_CV  |              |                         |

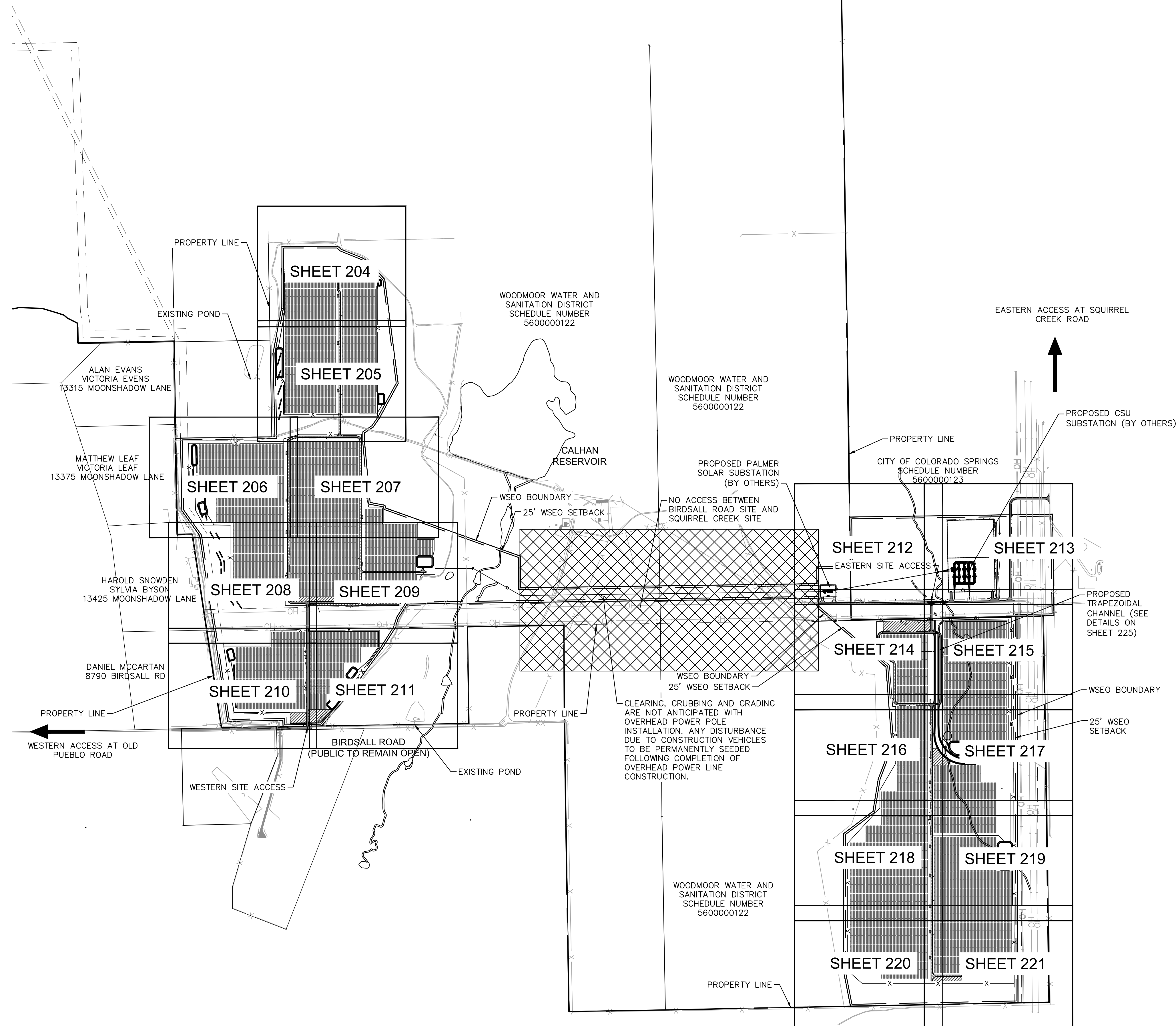
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XREFS: el\_paso\_street\_map\_096495003to\_c0\_ec  
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GRADING AND EROSION CONTROL PLAN-SUBMITTAL

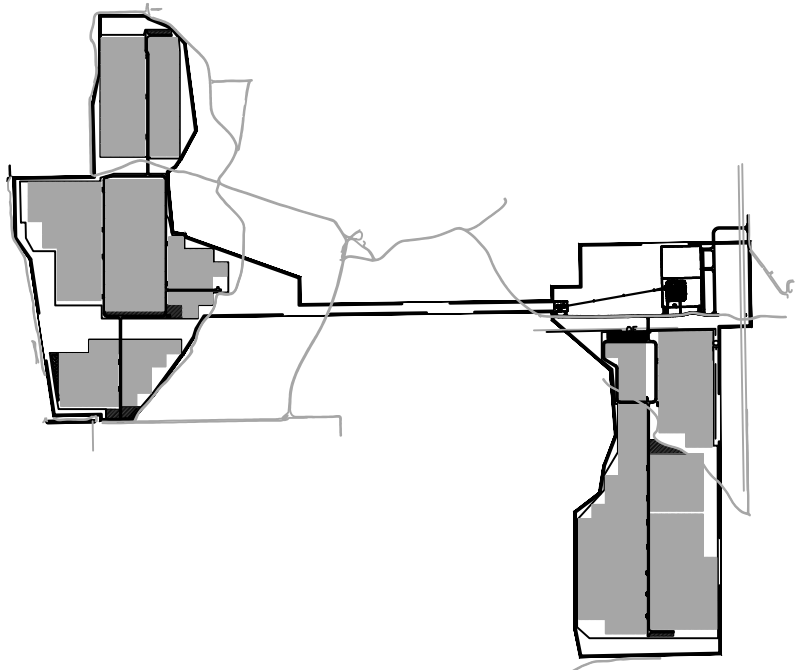


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XREFS: 096495003.ec 096495003.ec 096495003.ec 096495003.ec 096495003.ec 096495003.ec 096495003.ec 096495003.ec  
IF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ASSUMPTION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC. REUSE



## IMPLEMENTATION INFORMATION:

|               |   |
|---------------|---|
| INITIAL PHASE | 1. PREPARE AND SUBMIT THE STATE OF COLORADO, COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT (CDPHE) NOTICE OF REASSIGNMENT. A COPY OF THE PERMIT SHALL BE PROVIDED TO THE OWNER UPON RECEIPT FROM THE CDPHE.  |
|               | 2. INSTALL SWMP INFORMATION SIGN (S) IN ACCORDANCE WITH APPLICABLE CITY, STATE, AND OWNER REQUIREMENTS.   |
|               | 3. ENSURE THAT GENERAL CONSTRUCTION BMPs WHICH ARE REQUIRED THROUGHOUT THE PROJECT AT LOCATIONS SHOWN ON THE GEC PLANS OR AS DICTATED BY CONSTRUCTION ACTIVITIES ARE OPERATIONAL.   |
|               | 4. INSTALL PERIMETER CONTROLS (CP) AND ENSURE THAT THE LIMITS OF CONSTRUCTION (LOC) ARE DEFINED AS NECESSARY OR KNOWN BY ALL PARTIES WHICH WILL BE RESPONSIBLE FOR CONSTRUCTION ON THE SITE.  |
|               | 5. INSTALL STABILIZED VEHICLE TRACKING CONTROL PAD (VTC) AS INDICATED ON THE GEC PLANS.   |
|               | 6. INSTALL SILT FENCE (SF) AND STRAW AS SHOWN ON THE GEC PLANS.   |
|               | 7. CONSTRUCT REQUIRED STABILIZED STAGING AREA (SSA).  |
|               | 8. CONSTRUCT AND STABILIZE SEDIMENT BASINS AND WITH APPROPRIATE OUTFALL STRUCTURES (CLEAR ONLY THOSE AREAS NECESSARY TO INSTALL BASINS). SEDIMENT BASINS SHALL REMAIN IN PLACE UNTIL ALL STORM SEWER AND PAVEMENT BASE COURSE HAVE BEEN INSTALLED OR INSTRUCTED IN THE SEQUENCE OF NOTES.   |
|               | 9. INSTALL TEMPORARY CONSTRUCTION FENCE FOR ANY AND ALL PORTIONS OF TEMPORARY SEDIMENT BASINS THAT RESIDE OUTSIDE THE LIMITS OF THE PERMANENT FENCE.  |
|               | 10. CONSTRUCT PERMANENT CHECK DAMS (WEST) IN LOCATIONS WITH NO DIVERSION DITCH OR TEMPORARY SEDIMENT POND.  |
|               | 11. INSTALL DIVERSION DITCHES AND CHECK DAMS (EAST AND WEST).   |
|               | 12. UPON COMPLETION OF THE INITIAL BMP INSTALLATION, THE OPERATOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE OWNER AND THE COUNTY EROSION CONTROL INSPECTOR TO CONFIRM BMPs INSTALLED ARE ADEQUATE PRIOR TO PROCEEDING WITH ADDITIONAL LAND DISTURBING ACTIVITIES.  |
|               | 13. COMPLETE DEMOLITION OF EXISTING SITE IMPROVEMENTS AND CLEARING AND GRUBBING OF THE SITE AS NECESSARY TO PROCEED WITH INITIAL GRADING OPERATIONS. STOCKPILE MATERIALS IN ACCORDANCE WITH THE STOCKPILE MANAGEMENT (SP) BMP.  |
| FINAL PHASE   | 1. CONFIRM EXISTING BMPs FROM THE INITIAL PHASE, WHICH ARE TO BE MAINTAINED THROUGHOUT CONSTRUCTION, ARE IN WORKING ORDER AND COMPLIANT WITH APPLICABLE REGULATIONS.  |
|               | 2. REPAIR AND/OR REPLACE ANY EXISTING BMPs WHICH ARE DEEMED INADEQUATE.   |
|               | 3. COMPLETE REQUIRED TEMPORARY GRADING OPERATIONS NECESSARY FOR CONSTRUCTION. CONDUCT EXCAVATION AS NEEDED FOR THE UNDERGROUND UTILITIES. STOCKPILE MATERIALS IN ACCORDANCE WITH THE STOCKPILE MANAGEMENT (SP) BMP.   |
|               | 4. TEMPORARY STABILIZE (TS) ALL AREAS OF THE SITE WHICH WILL REMAIN INACTIVE FOR A PERIOD GREATER THAN 30 DAYS IN ACCORDANCE WITH EL PASO COUNTY, CDPHE AND OWNER REQUIREMENTS. TEMPORARY STABILIZATION SHALL BE IMPLEMENTED WITHIN 14 DAYS OF DISTURBANCE. CONTRACTOR TO CHOOSE ANNUAL GRASS APPROPRIATE FOR THE AREA BASED ON TABLE TS/PS-1 OF THE URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3. |
|               | 5. INSTALL CONCRETE WASHOUT AREA (CWA) PRIOR TO CONSTRUCTION OF CONCRETE IMPROVEMENTS.  |
|               | 6. COMPLETE REQUIRED GRADING OPERATIONS NECESSARY FOR CONSTRUCTION OF THE PROPOSED TRACKING ARRAYS, TRANSFORMER PADS AND ASSOCIATED SITE AND UTILITY IMPROVEMENTS. STOCKPILE MATERIALS IN ACCORDANCE WITH THE STOCKPILE MANAGEMENT (SP) BMP.  |
|               | 7. CONSTRUCT UNDERGROUND UTILITIES.   |
|               | 8. COMPLETE FINE GRADING AND PROCEED WITH TEMPORARY STABILIZATION (TS) AND PERMANENT STABILIZATION (PS) PRACTICES.  |
|               | 9. COMPLETE GRADING AND INSTALLATION OF PERMANENT STABILIZATION OVER SEDIMENT BASIN AREAS AND TEMPORARY DIVERSION DITCHES.  |
|               | 10. CONSTRUCT PERMANENT CHECK DAMS (WEST) IN AREAS WHERE SEDIMENT BASINS ARE FILLED IN.   |
|               | 11. ACHIEVE PERMANENT STABILIZATION IN ACCORDANCE WITH EL PASO COUNTY, CDPHE AND OWNER REQUIREMENTS.  |
|               | 12. REMOVE REMAINING BMPs ONCE PERMANENT STABILIZATION (PS) HAS BEEN ACHIEVED. REPAIR AND STABILIZE AREAS DISTURBED THROUGH BMP REMOVAL.  |
|               | 13. NOTIFY THE OWNER OF INTENT TO FILE THE NOTICE OF INACTIVATION WITH EL PASO COUNTY AND CDPHE AND RECEIVE OWNER ACCEPTANCE TO PROCEED WITH STORMWATER MANAGEMENT CLOSE-OUT.   |
|               | 14. NOTIFY THE EL PASO COUNTY OF THE INTENT TO FILE THE NOTICE OF INACTIVATION AND RECEIVE EL PASO COUNTY FIELD ACCEPTANCE PRIOR TO PROCEEDING WITH FILING THE NOTICE OF INACTIVATION WITH THE EL PASO COUNTY.  |
|               | 15. PROCEED WITH FILING THE NOTICE OF INACTIVATION WITH THE EL PASO COUNTY AND CDPHE.   |
|               | 16. PROVIDE THE OWNER WITH A COPY OF ALL STORMWATER DOCUMENTATION (PERMITS, INSPECTION REPORTS, LOGS, ETC.) UPON COMPLETION OF THE PROJECT, FILE THE NOTICE OF INACTIVATION.  |



## KEY MAP

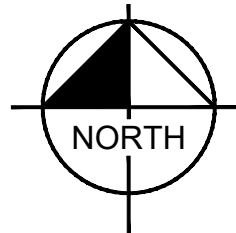
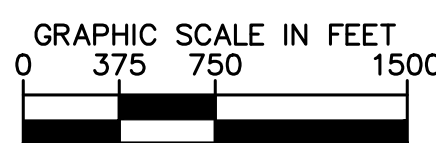
NOT TO SCALE

## LEGEND

|  |                                 |
|--|---------------------------------|
|  | WSEO OVERLAY BOUNDARY           |
|  | WSEO 25' SETBACK                |
|  | PROPERTY LINE                   |
|  | EXISTING EASEMENT               |
|  | EXISTING FENCE                  |
|  | PROPOSED FENCE                  |
|  | EXISTING OVERHEAD ELECTRIC LINE |
|  | PROPOSED OVERHEAD ELECTRIC LINE |

## NOTES

- EROSION CONTROL FOR CSU SUBSTATION AND PALMER SOLAR SUBSTATION ARE COVERED UNDER THIS PERMIT. ALL PERMANENT GRADING AND CONSTRUCTION PLANS TO BE COMPLETED BY OTHERS.
- TEMPORARY SEEDING TO BE PER THE UDFCD STANDARD DETAILS ON SHEET 224.
- PERMANENT SEEDING PER MIX FOUND ON SHEET 224.



PALMER SOLAR  
GRADING AND EROSION  
OVERALL PLAN  
EL PASO COUNTY, CO

**Kimley»Horn**

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2 N. NEVADA AVENUE, SUITE 300  
COLORADO SPRINGS, CO 80903 (719) 453-0180

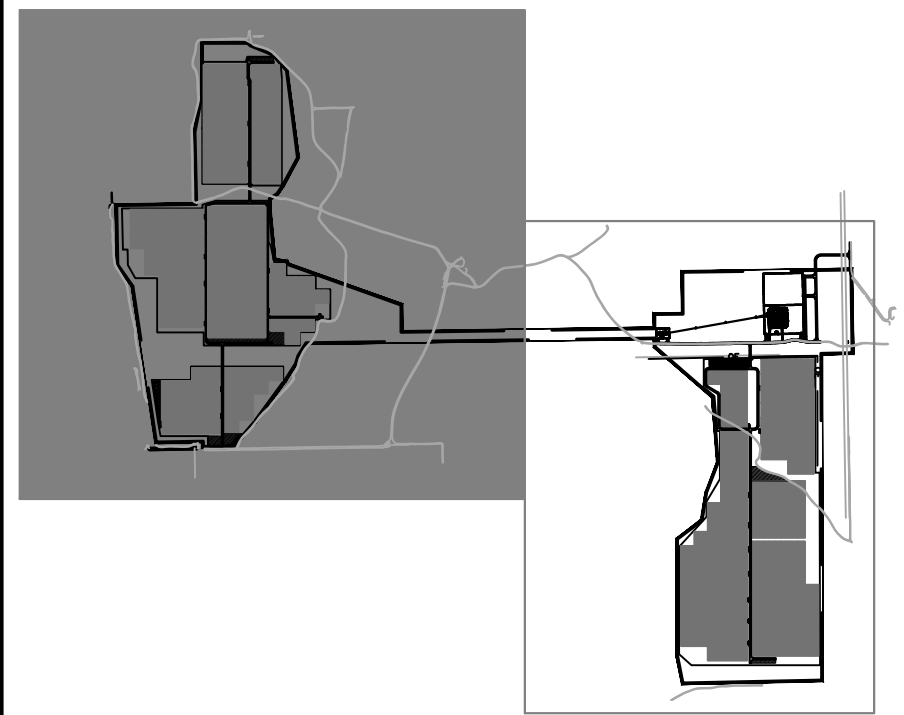
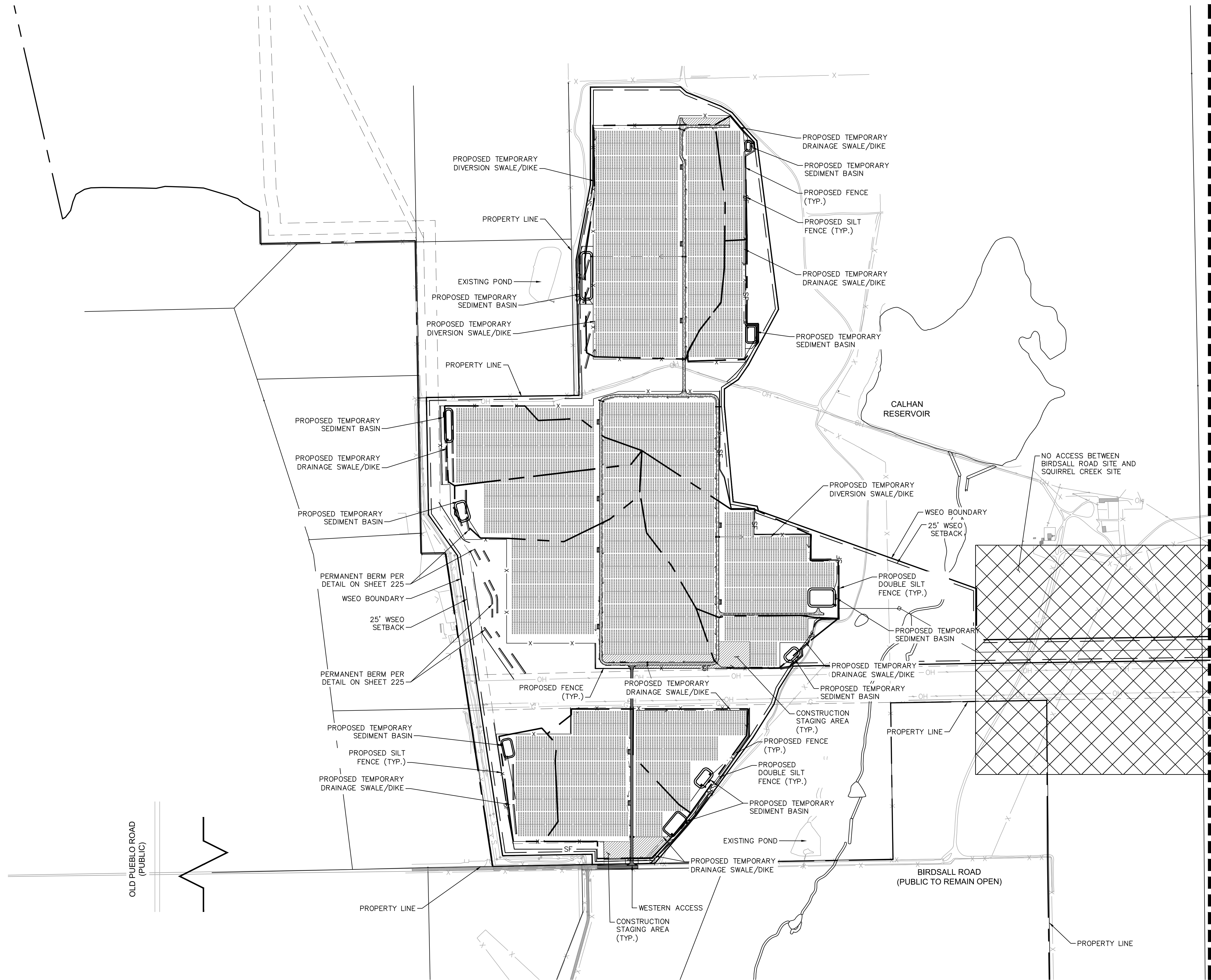


|  |                     |                       |
|--|---------------------|-----------------------|
| DESIGNED<br><b>EJG</b>                   | DRAWN<br><b>KRK</b> | CHECKED<br><b>EJG</b> |
| SCALE (H): 1" = 750'                     |                     |                       |
| SCALE (V):                               |                     |                       |
| DATE:<br>FEBRUARY 22, 2019               |                     |                       |
| PROJECT NO.<br>096495003                 |                     |                       |
| DWG. NAME<br><b>096495003_EC_OVERALL</b> |                     |                       |
| SHEET NO.<br><b>201</b>                  |                     |                       |

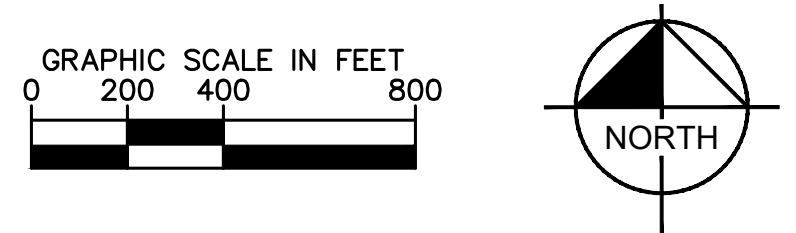




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XREFS: x096495003.dwg x096495003b\_cd\_EC x096495003.dwg x096495003.dwg  
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| KEY MAP<br>NOT TO SCALE |   |
|-------------------------|---|
| LEGEND                  |   |
|                         | WSEO OVERLAY BOUNDARY                       |
|                         | WSEO 25' SETBACK                            |
|                         | PROPERTY LINE                               |
|                         | EXISTING EASEMENT                           |
|                         | EXISTING FENCE                              |
|                         | PROPOSED FENCE                              |
|                         | EXISTING OVERHEAD ELECTRIC LINE             |
|                         | PROPOSED OVERHEAD ELECTRIC LINE             |
|                         | PROPOSED SILT FENCING                       |
|                         | PROPOSED STRAW BALES                        |
|                         | AREA TRIBUTARY TO TEMPORARY SEDIMENT BASINS |
|                         | CONSTRUCTION STAGING AREA                   |



PALMER SOLAR  
GRADING AND EROSION  
CONTROL - BIRDSALL ROAD SITE  
EL PASO COUNTY, CO

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COLORADO SPRINGS, CO 80903 (719) 453-0180

|                              |                     |                       |
|------------------------------|---------------------|-----------------------|
| DESIGNED<br><b>EJG</b>       | DRAWN<br><b>KRK</b> | CHECKED<br><b>EJG</b> |
| SCALE (H): 1" = 400'         |                     |                       |
| SCALE (V):                   |                     |                       |
| DATE:<br>FEBRUARY 22, 2019   |                     |                       |
| PROJECT NO.<br>096495003     |                     |                       |
| DWG. NAME<br>096495003_EC_SP |                     |                       |

SHEET NO.  
**202**

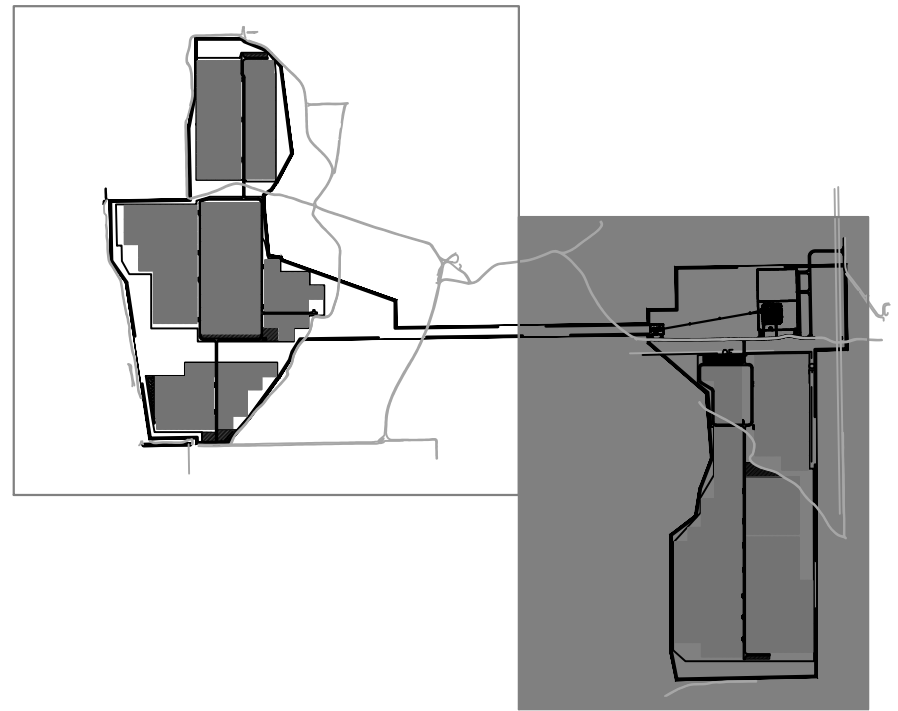
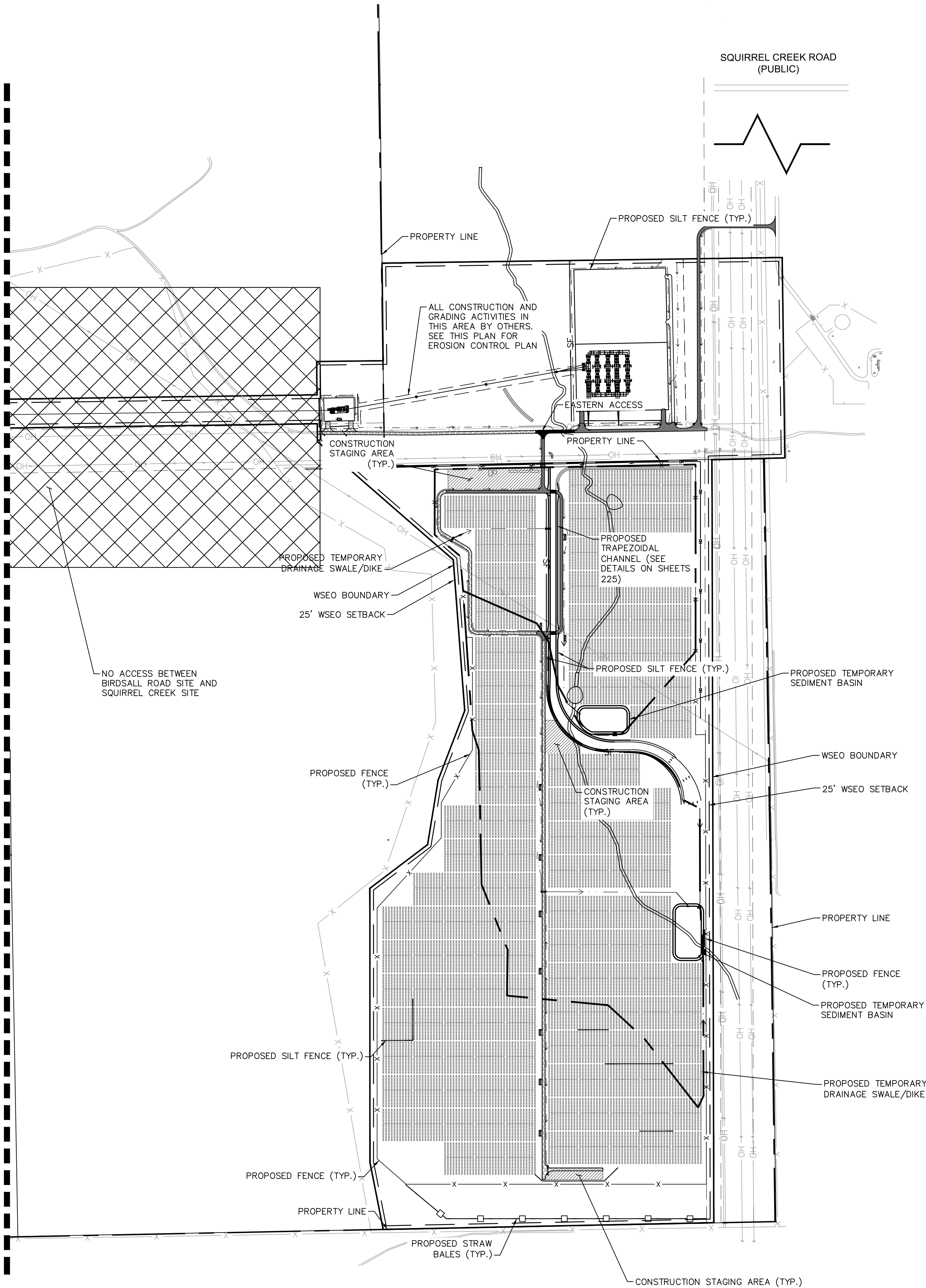
GRADING AND EROSION CONTROL PLAN-SUBMITTAL



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XREFS: x096495003.dwg x096495003b\_cd\_EC x096495003.dwg x096495003.dwg  
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MATCHLINE- SEE SHEET 202

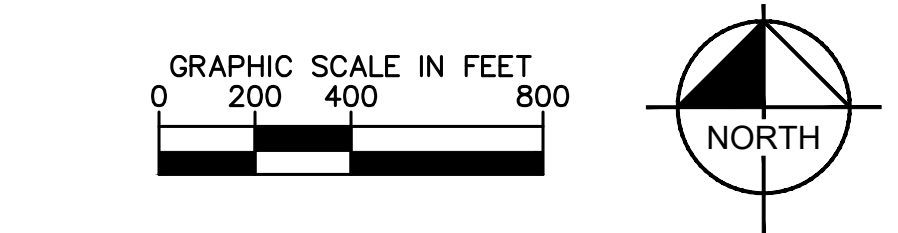


**KEY MAP**  
NOT TO SCALE

**LEGEND**

- WSEO OVERLAY BOUNDARY
- WSEO 25' SETBACK
- PROPERTY LINE
- EXISTING EASEMENT
- EXISTING FENCE
- PROPOSED FENCE
- EXISTING OVERHEAD ELECTRIC LINE
- PROPOSED OVERHEAD ELECTRIC LINE
- PROPOSED SILT FENCING
- PROPOSED STRAW BALES
- AREA TRIBUTARY TO TEMPORARY SEDIMENT BASINS
- CONSTRUCTION STAGING AREA

- NOTES**
1. EROSION CONTROL FOR CSU SUBSTATION AND PALMER SOLAR SUBSTATION ARE COVERED UNDER THIS PERMIT. ALL PERMANENT GRADING AND CONSTRUCTION PLANS TO BE COMPLETED BY OTHERS.



**PALMER SOLAR  
GRADING AND EROSION  
CONTROL- SQUIRREL CREEK SITE  
EL PASO COUNTY, CO**

**Kimley»Horn**

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COLORADO SPRINGS, CO. 80903 (719) 453-0180

|                              |                     |                       |
|------------------------------|---------------------|-----------------------|
| DESIGNED<br><b>EJG</b>       | DRAWN<br><b>KRK</b> | CHECKED<br><b>EJG</b> |
| SCALE (H):1" = 400'          |                     |                       |
| SCALE (V):                   |                     |                       |
| DATE:<br>FEBRUARY 22, 2019   |                     |                       |
| PROJECT NO.<br>096495003     |                     |                       |
| DWG. NAME<br>096495003_EC_SP |                     |                       |

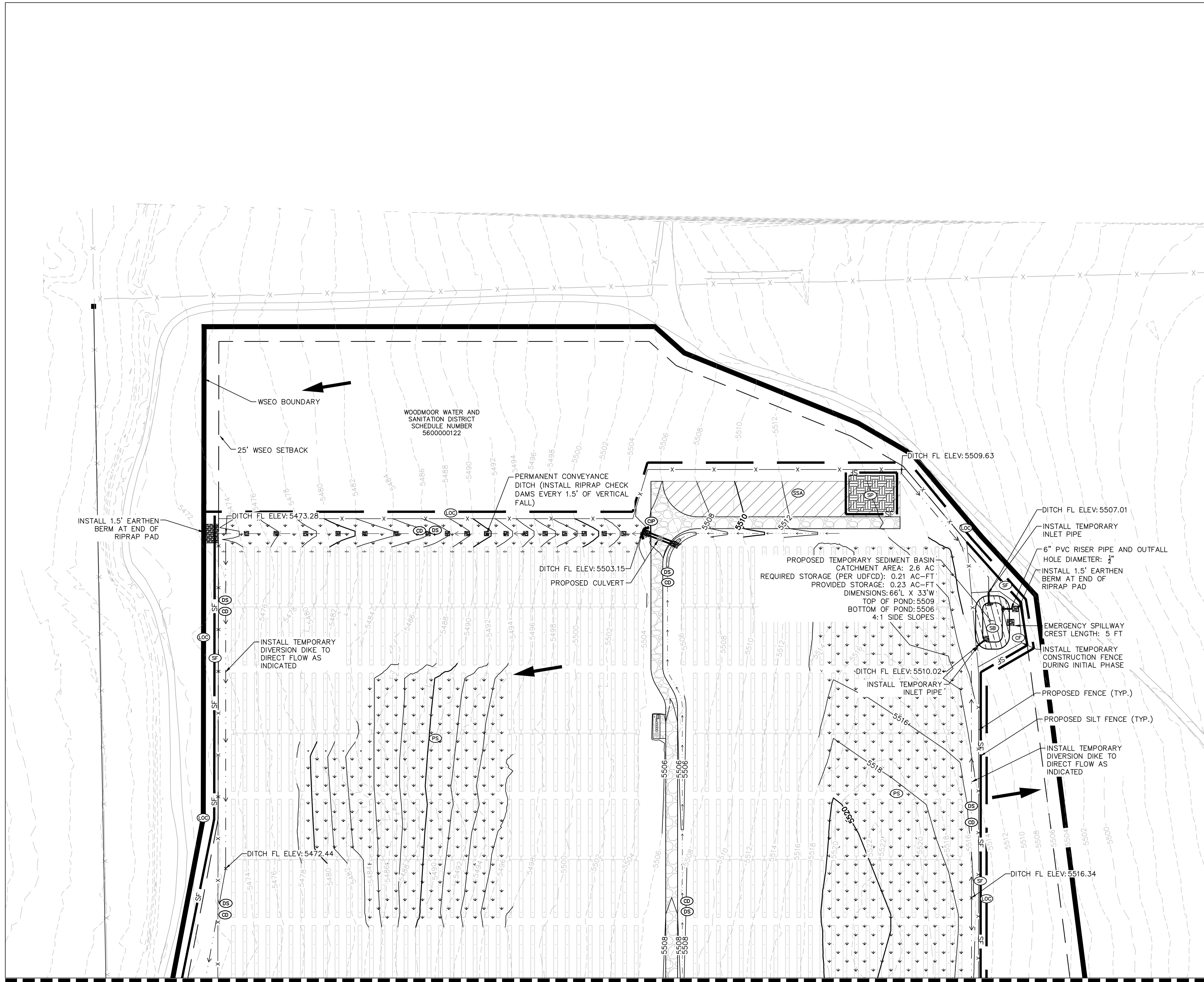
SHEET NO.  
**203**

49487  
KIMLEY-HORN AND ASSOCIATES, INC.  
PROFESSIONAL ENGINEER  
1/22/19

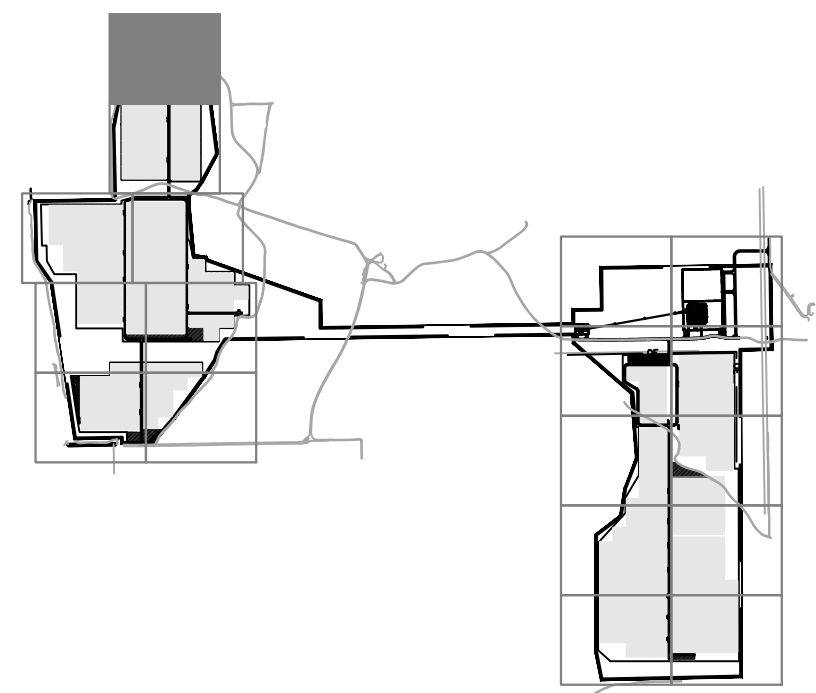
GRADING AND EROSION CONTROL PLAN-SUBMITTAL



K:\COS\_civil\096495003\_Palmer Solar\CADD\Sheets\096495003\_EC.dwg Feb. 22, 2019 kevin.kofford  
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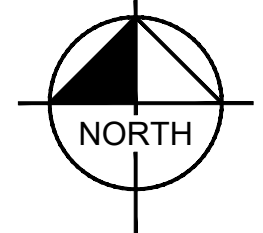
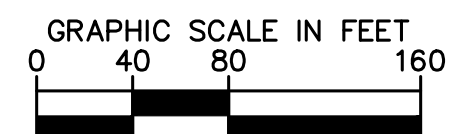
MATCHLINE- SEE SHEET 205



| LEGEND |                          |
|--------|--------------------------|
|        | PROPERTY LINE            |
|        | LIMITS OF CONSTRUCTION   |
|        | PERMANENT FENCE          |
|        | CONSTRUCTION FENCE       |
|        | SILT FENCE               |
|        | STRAW BALES              |
|        | DRAINAGE SWALE/DIKE      |
|        | CHECK DAM                |
|        | STABILIZED STAGING AREA  |
|        | CONCRETE WASHOUT         |
|        | VEHICLE TRACKING CONTROL |
|        | CULVERT INLET PROTECTION |
|        | SOIL STOCKPILE           |
|        | TEMPORARY SEDIMENT BASIN |
|        | OVERLAND FLOW ARROW      |
|        | PERMANENT SEEDING        |
|        | EXISTING MINOR CONTOUR   |
|        | EXISTING MAJOR CONTOUR   |
|        | PROPOSED MINOR CONTOUR   |
|        | PROPOSED MAJOR CONTOUR   |
|        | ROADSIDE SWALE           |

| LIMITS OF CONSTRUCTION |                |
|------------------------|----------------|
| ONSITE IMPROVEMENTS    | = ±557.5 ACRES |
| OFFSITE IMPROVEMENTS   | = ±1.5 ACRES   |
| TOTAL                  | = ±559 ACRES   |

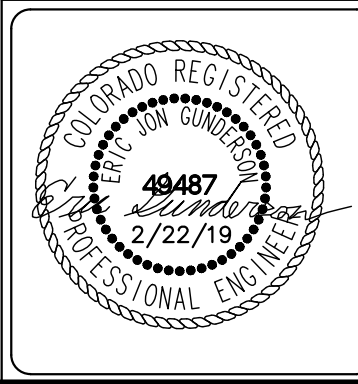
- NOTES**
- TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
  - THIS PLAN SHOWS BOTH INITIAL AND FINAL BMP. REFERENCE SHEET 201 FOR PHASING AND SEQUENCING PLAN.
  - CONTRACTOR SHALL MAINTAIN STABILIZED STAGING AREA (SSA), VEHICLE TRACKING CONTROL (VTC), AND CONCRETE WASHOUT AREA (CWA) AT THE CONSTRUCTION ENTRANCE AT ALL TIMES. CONTRACTOR SHALL UPDATE THE EROSION CONTROL PLAN IN THE FIELD TO INDICATE THE LOCATION OF THE SSA, VTC, AND CWA BMPs AS EXCAVATION SEQUENCING DICTATES.
  - CHECK DAMS TO BE SPACED ALONG ALL TEMPORARY AND PERMANENT DRAINAGE SWALES AND DITCHES PER UDFCD DETAILS (ONE CHECK DAM PER 1.5 FEET OF FALL). SCL MAY BE USED IN PLACE OF RIP RAP FOR ROADSIDE SWALES OR TEMPORARY DIVERSION DITCHES.
  - FOR GRADING OF PERMANENT CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.



PALMER SOLAR  
GRADING AND EROSION  
CONTROL PLAN  
EL PASO COUNTY, CO

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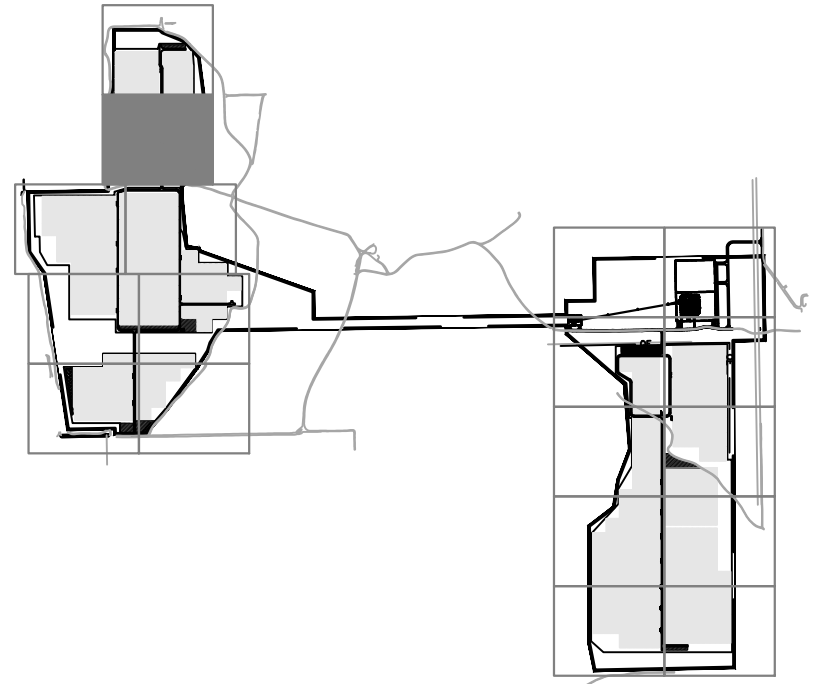
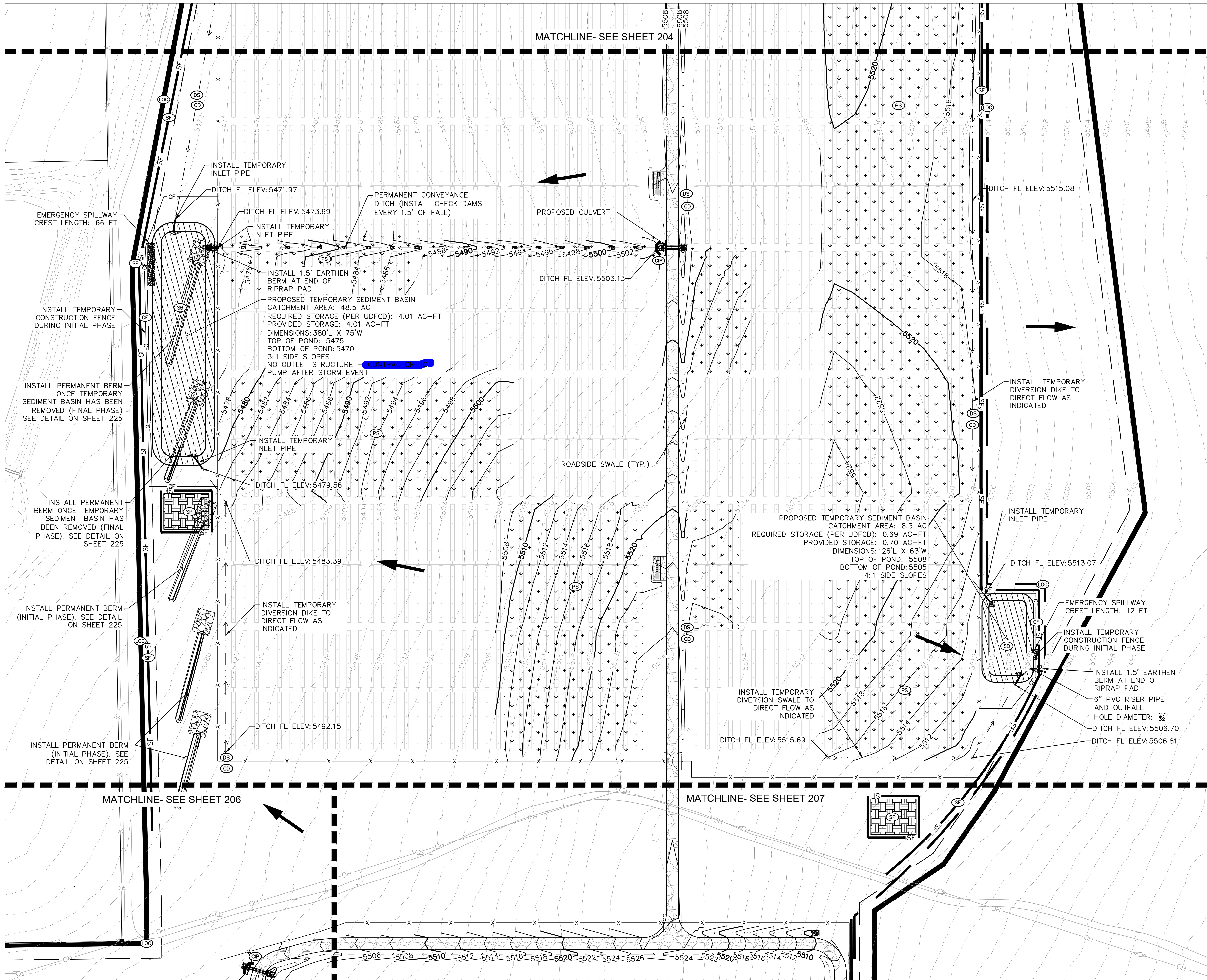


|                                   |              |                |
|-----------------------------------|--------------|----------------|
| DESIGNED<br>EJG                   | DRAWN<br>KRK | CHECKED<br>EJG |
| SCALE (H): 1" = 80'<br>SCALE (V): |              |                |
| DATE:<br>FEBRUARY 22, 2019        |              |                |
| PROJECT NO.<br>096495003          |              |                |
| DWG. NAME<br>096495003_EC         |              |                |
| SHEET NO.<br>204                  |              |                |

GRADING AND EROSION CONTROL PLAN-SUBMITAL



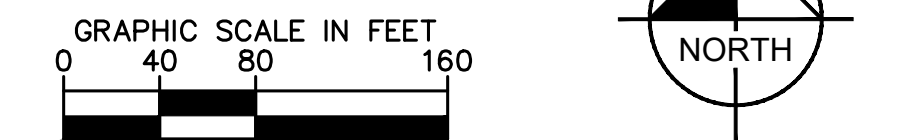
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XREFS: x096495003b.ctb EC x096495003vf.ctb c040a\_nesc\_overlay\_boundary\_180712 x096495003d.ctb  
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| KEY MAP |                          |
|---------|--------------------------|
| LEGEND  | PROPERTY LINE            |
|         | LIMITS OF CONSTRUCTION   |
|         | PERMANENT FENCE          |
|         | CONSTRUCTION FENCE       |
|         | SILT FENCE               |
|         | STRAW BALES              |
|         | DRAINAGE SWALE/DIKE      |
|         | CHECK DAM                |
|         | STABILIZED STAGING AREA  |
|         | CONCRETE WASHOUT         |
|         | VEHICLE TRACKING CONTROL |
|         | CULVERT INLET PROTECTION |
|         | SOIL STOCKPILE           |
|         | TEMPORARY SEDIMENT BASIN |
|         | OVERLAND FLOW ARROW      |
|         | PERMANENT SEEDING        |
|         | EXISTING MINOR CONTOUR   |
|         | EXISTING MAJOR CONTOUR   |
|         | PROPOSED MINOR CONTOUR   |
|         | PROPOSED MAJOR CONTOUR   |
|         | ROADSIDE SWALE           |

| LIMITS OF CONSTRUCTION |                |
|------------------------|----------------|
| ONSITE IMPROVEMENTS    | = ±557.5 ACRES |
| OFFSITE IMPROVEMENTS   | = ±1.5 ACRES   |
| TOTAL                  | = ±559 ACRES   |

- NOTES**
- TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
  - THIS PLAN SHOWS BOTH INITIAL AND FINAL BMP. REFERENCE SHEET 201 FOR PHASING AND SEQUENCING PLAN.
  - CONTRACTOR SHALL MAINTAIN STABILIZED STAGING AREA (SSA), VEHICLE TRACKING CONTROL (VTC), AND CONCRETE WASHOUT AREA (CWA) AT THE CONSTRUCTION ENTRANCE AT ALL TIMES. CONTRACTOR SHALL UPDATE THE EROSION CONTROL PLAN IN THE FIELD TO INDICATE THE LOCATION OF THE SSA, VTC, AND CWA BMPS AS EXCAVATION SEQUENCING DICTATES.
  - CHECK DAMS TO BE SPACED ALONG ALL TEMPORARY AND PERMANENT DRAINAGE SWALES AND DITCHES PER UDFCD DETAILS (ONE CHECK DAM PER 1.5 FEET OF FALL). SCL MAY BE USED IN PLACE OF RIP RAP FOR ROADSIDE SWALES OR TEMPORARY DIVERSION DITCHES.
  - FOR GRADING OF PERMANENT CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.



PALMER SOLAR  
GRADING AND EROSION  
CONTROL PLAN  
EL PASO COUNTY, CO

**Kimley»Horn**

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|                            |              |                |
|----------------------------|--------------|----------------|
| DESIGNED<br>EJG            | DRAWN<br>KRK | CHECKED<br>EJG |
| SCALE (H): 1" = 80'        |              |                |
| SCALE (V):                 |              |                |
| DATE:<br>FEBRUARY 22, 2019 |              |                |
| PROJECT NO.<br>096495003   |              |                |
| DWG. NAME<br>096495003_EC  |              |                |

49487

PROFESSIONAL ENGINEER

1/22/19

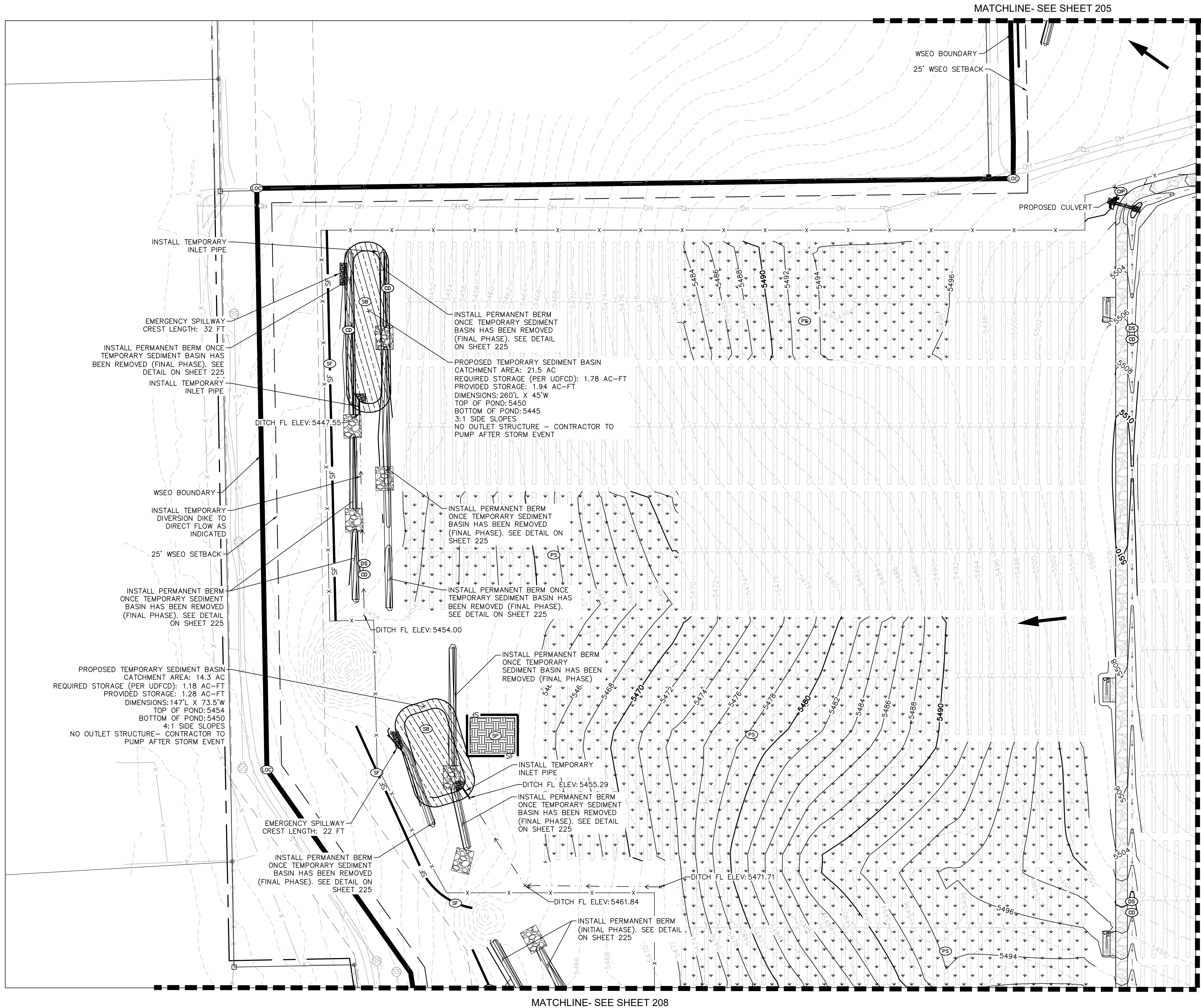
SHEET NO.

205

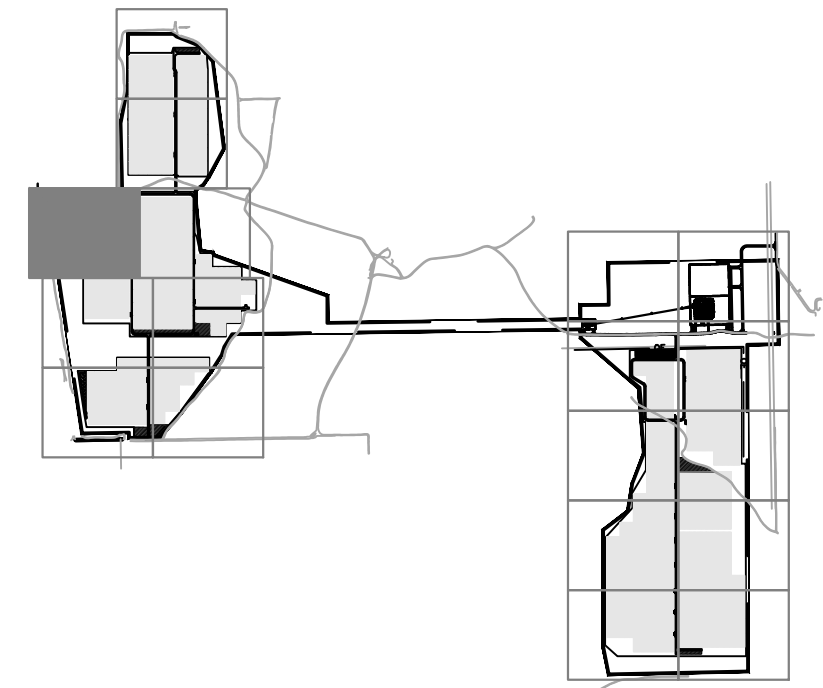
GRADING AND EROSION CONTROL PLAN-SUBMITTAL



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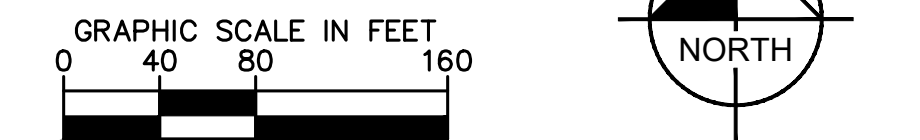
MATCHLINE- SEE SHEET 207



| KEY MAP |                          |
|---------|--------------------------|
| LEGEND  | PROPERTY LINE            |
|         | LIMITS OF CONSTRUCTION   |
|         | PERMANENT FENCE          |
|         | CONSTRUCTION FENCE       |
|         | SILT FENCE               |
|         | STRAW BALES              |
|         | DRAINAGE SWALE/DIKE      |
|         | CHECK DAM                |
|         | STABILIZED STAGING AREA  |
|         | CONCRETE WASHOUT         |
|         | VEHICLE TRACKING CONTROL |
|         | CULVERT INLET PROTECTION |
|         | SOIL STOCKPILE           |
|         | TEMPORARY SEDIMENT BASIN |
|         | OVERLAND FLOW ARROW      |
|         | PERMANENT SEEDING        |
|         | EXISTING MINOR CONTOUR   |
|         | EXISTING MAJOR CONTOUR   |
|         | PROPOSED MINOR CONTOUR   |
|         | PROPOSED MAJOR CONTOUR   |
|         | ROADSIDE SWALE           |

| LIMITS OF CONSTRUCTION |                |
|------------------------|----------------|
| ONSITE IMPROVEMENTS    | = ±557.5 ACRES |
| OFFSITE IMPROVEMENTS   | = ±1.5 ACRES   |
| TOTAL                  | = ±559 ACRES   |

- NOTES**
- TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
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  - FOR GRADING OF PERMANENT CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.



PALMER SOLAR  
GRADING AND EROSION  
CONTROL PLAN  
EL PASO COUNTY, CO

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|                                   |              |                |
|-----------------------------------|--------------|----------------|
| DESIGNED<br>EJG                   | DRAWN<br>KRK | CHECKED<br>EJG |
| SCALE (H): 1" = 80'<br>SCALE (V): |              |                |
| DATE:<br>FEBRUARY 22, 2019        |              |                |
| PROJECT NO.<br>096495003          |              |                |
| DWG. NAME<br>096495003_EC         |              |                |

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PROFESSIONAL ENGINEER

SHEET NO.  
**206**

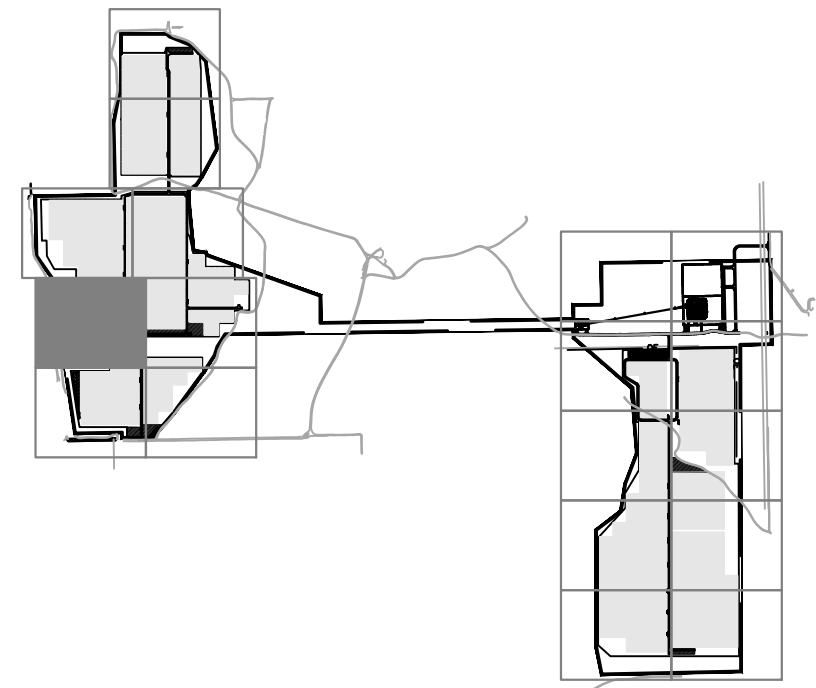
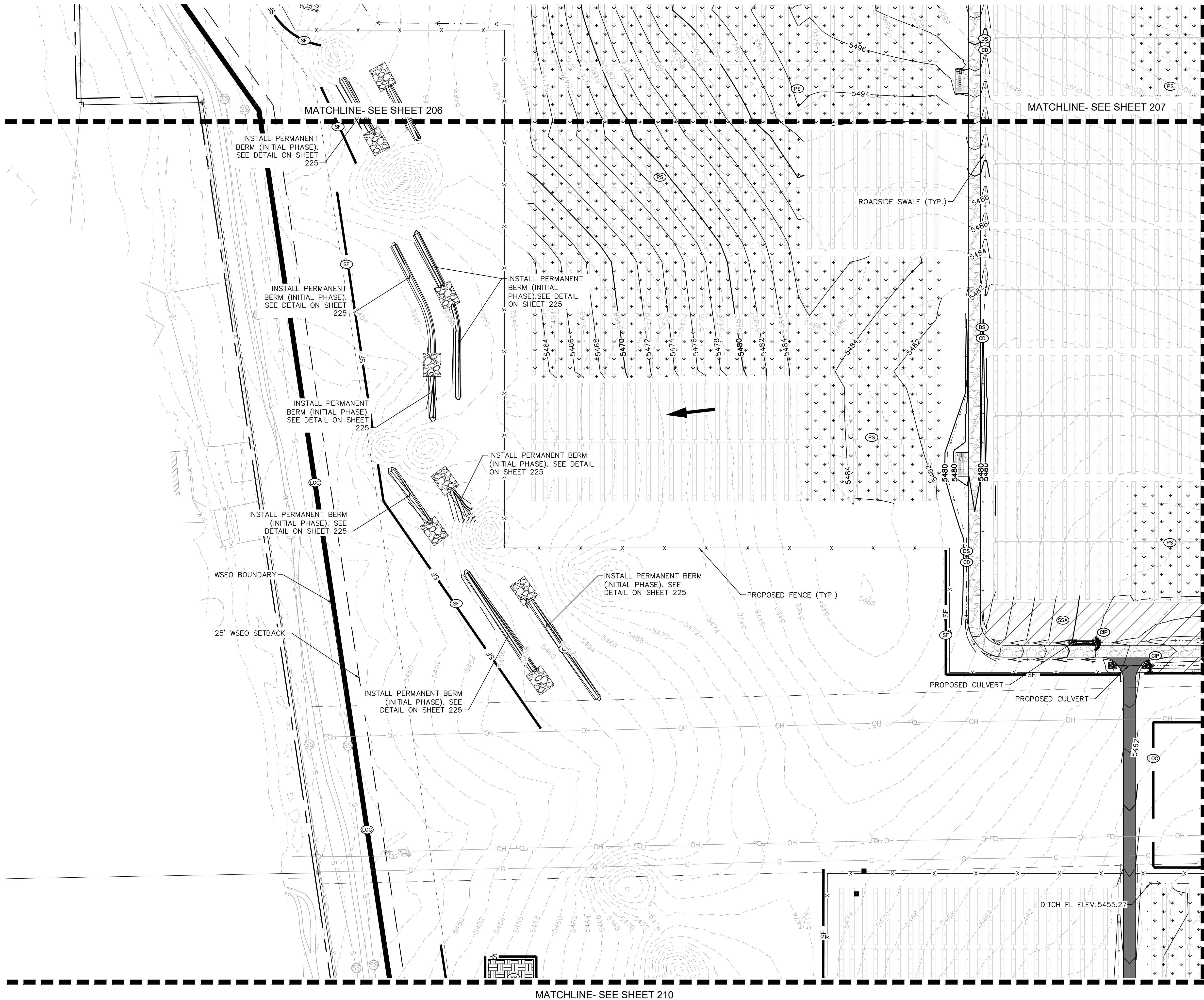
GRADING AND EROSION CONTROL PLAN-SUBMITTAL







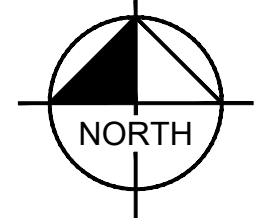
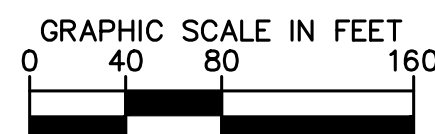
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| LEGEND |                          |
|--------|--------------------------|
|        | PROPERTY LINE            |
|        | LIMITS OF CONSTRUCTION   |
|        | PERMANENT FENCE          |
|        | CONSTRUCTION FENCE       |
|        | SILT FENCE               |
|        | STRAW BALES              |
|        | DRAINAGE SWALE/DIKE      |
|        | CHECK DAM                |
|        | STABILIZED STAGING AREA  |
|        | CONCRETE WASHOUT         |
|        | VEHICLE TRACKING CONTROL |
|        | CULVERT INLET PROTECTION |
|        | SOIL STOCKPILE           |
|        | TEMPORARY SEDIMENT BASIN |
|        | OVERLAND FLOW ARROW      |
|        | PERMANENT SEEDING        |
|        | EXISTING MINOR CONTOUR   |
|        | EXISTING MAJOR CONTOUR   |
|        | PROPOSED MINOR CONTOUR   |
|        | PROPOSED MAJOR CONTOUR   |
|        | ROADSIDE SWALE           |

| LIMITS OF CONSTRUCTION |                |
|------------------------|----------------|
| ONSITE IMPROVEMENTS    | = ±557.5 ACRES |
| OFFSITE IMPROVEMENTS   | = ±1.5 ACRES   |
| TOTAL                  | = ±559 ACRES   |


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  - FOR GRADING OF PERMANENT CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.



PALMER SOLAR  
GRADING AND EROSION  
CONTROL PLAN  
EL PASO COUNTY, CO

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|   |                            |              |                      |
|---|----------------------------|--------------|----------------------|
|  | DESIGNED<br>EJG            | DRAWN<br>KRK | CHECKED<br>EJG       |
|   | SCALE (H): 1" = 80'        |              |                      |
|   | SCALE (V):                 |              |                      |
|   | DATE:<br>FEBRUARY 22, 2019 |              | SHEET NO.<br><br>208 |
|   | PROJECT NO.<br>096495003   |              |                      |
|   | DWG. NAME<br>096495003_EC  |              |                      |

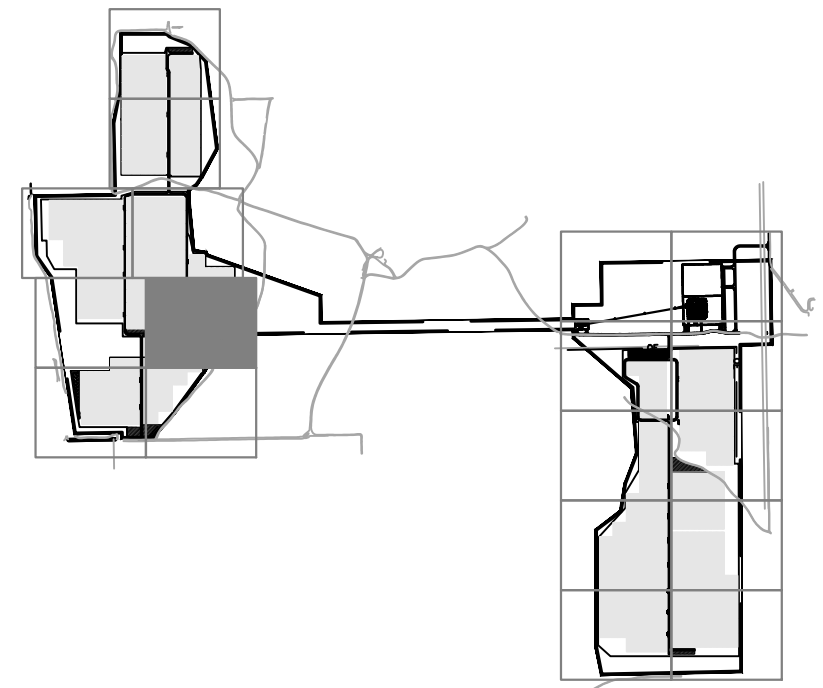
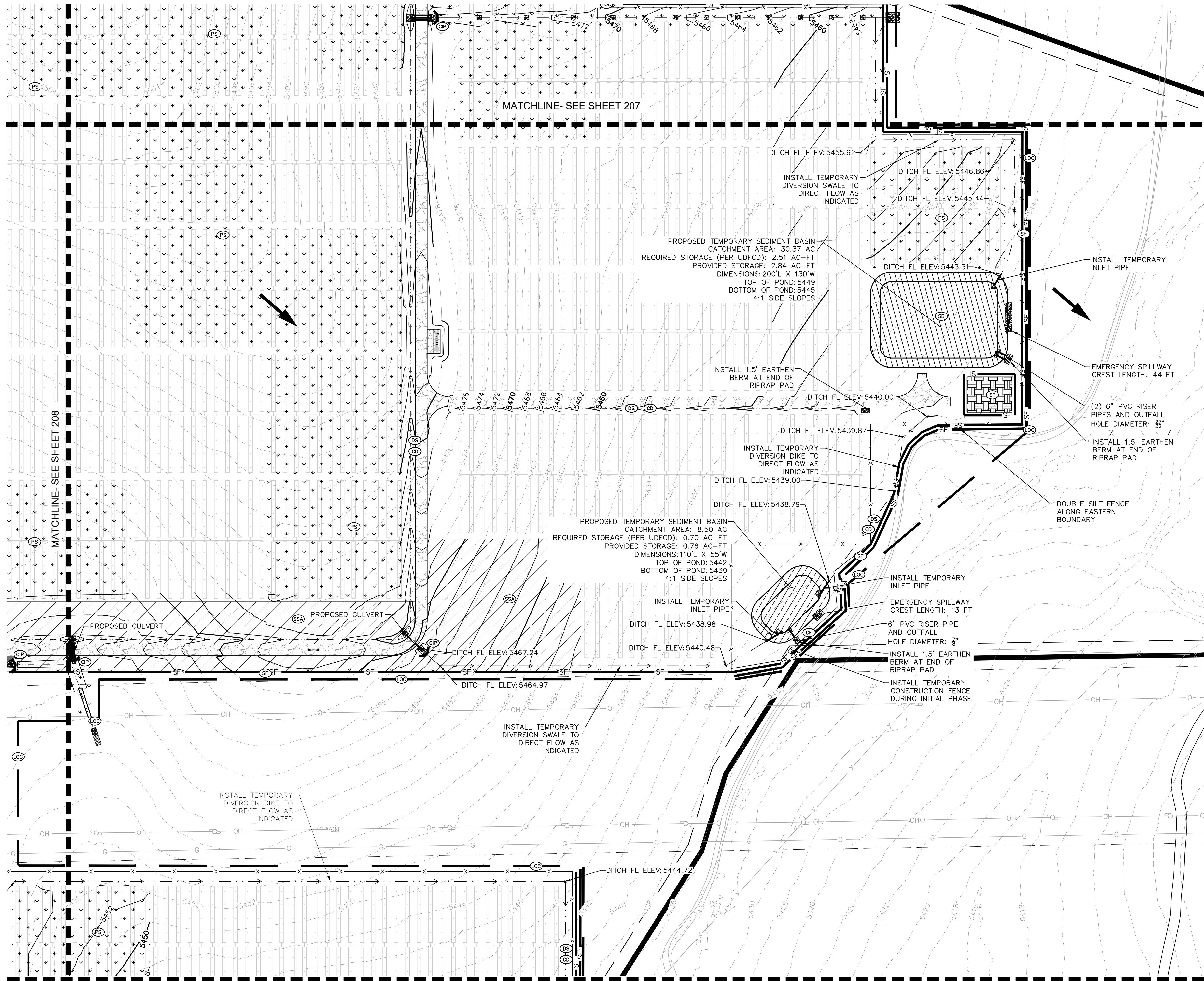
GRADING AND EROSION CONTROL PLAN-SUBMITTAL



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XREFS: x096495003b\_c04\_EC x096495003b\_c040\_nesc\_overlay\_boundary\_180712 x096495003b\_c040\_nesc\_overlay\_boundary\_180712 x096495003b\_c040\_nesc\_overlay\_boundary\_180712 x096495003b\_c040\_nesc\_overlay\_boundary\_180712  
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#### KEY MAP

#### LEGEND

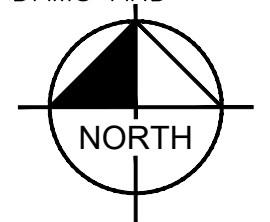
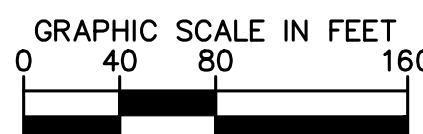
- |                  |                          |
|------------------|--------------------------|
| ---              | PROPERTY LINE            |
| ---              | LIMITS OF CONSTRUCTION   |
| X                | PERMANENT FENCE          |
| CF               | CONSTRUCTION FENCE       |
| SF               | SILT FENCE               |
| SB               | STRAW BALES              |
| DS               | DRAINAGE SWALE/DIKE      |
| CD               | CHECK DAM                |
| SSA              | STABILIZED STAGING AREA  |
| CWA              | CONCRETE WASHOUT         |
| VTC              | VEHICLE TRACKING CONTROL |
| CIP              | CULVERT INLET PROTECTION |
| SP               | SOIL STOCKPILE           |
| SB               | TEMPORARY SEDIMENT BASIN |
| ←                | OVERLAND FLOW ARROW      |
| PS               | PERMANENT SEEDING        |
| - - - 5496 - - - | EXISTING MINOR CONTOUR   |
| - - - 5496 - - - | EXISTING MAJOR CONTOUR   |
| - - - 5496 - - - | PROPOSED MINOR CONTOUR   |
| - - - 5496 - - - | PROPOSED MAJOR CONTOUR   |
| - - - 5496 - - - | ROADSIDE SWALE           |

#### LIMITS OF CONSTRUCTION

|                      |                |
|----------------------|----------------|
| ONSITE IMPROVEMENTS  | = ±557.5 ACRES |
| OFFSITE IMPROVEMENTS | = ±1.5 ACRES   |
| TOTAL                | = ±559 ACRES   |

#### NOTES

1. TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
2. THIS PLAN SHOWS BOTH INITIAL AND FINAL BMP. REFERENCE SHEET 201 FOR PHASING AND SEQUENCING PLAN.
3. CONTRACTOR SHALL MAINTAIN STABILIZED STAGING AREA (SSA), VEHICLE TRACKING CONTROL (VTC), AND CONCRETE WASHOUT AREA (CWA) AT THE CONSTRUCTION ENTRANCE AT ALL TIMES. CONTRACTOR SHALL UPDATE THE EROSION CONTROL PLAN IN THE FIELD TO INDICATE THE LOCATION OF THE SSA, VTC, AND CWA BMPs AS EXCAVATION SEQUENCING DICTATES.
4. CHECK DAMS TO BE SPACED ALONG ALL TEMPORARY AND PERMANENT DRAINAGE SWALES AND DITCHES PER UDFCD DETAILS (ONE CHECK DAM PER 1.5 FEET OF FALL). SCL MAY BE USED IN PLACE OF RIP RAP FOR ROADSIDE SWALES OR TEMPORARY DIVERSION DITCHES.
5. FOR GRADING OF PERMANENT CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.



### PALMER SOLAR GRADING AND EROSION CONTROL PLAN EL PASO COUNTY, CO

**Kimley-Horn**

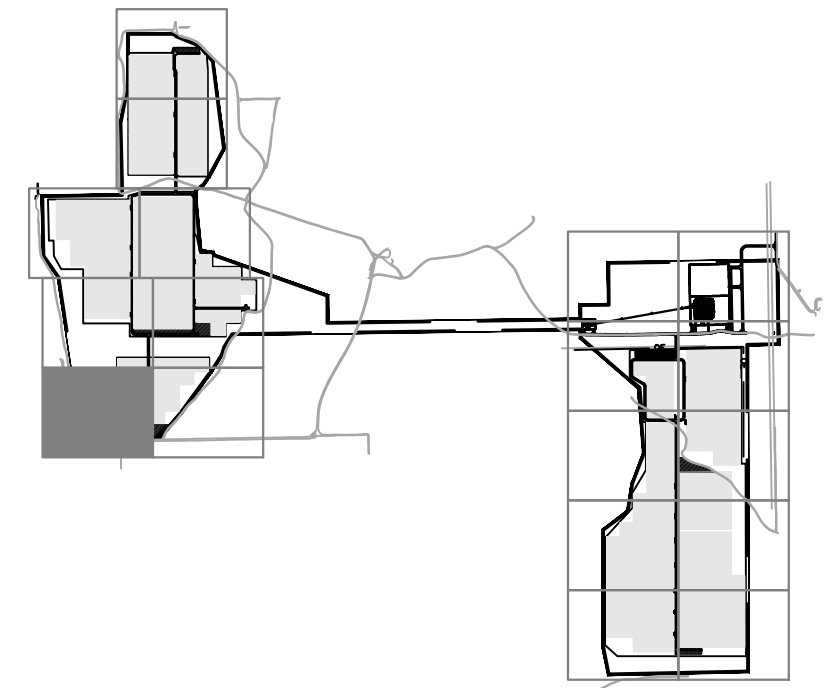
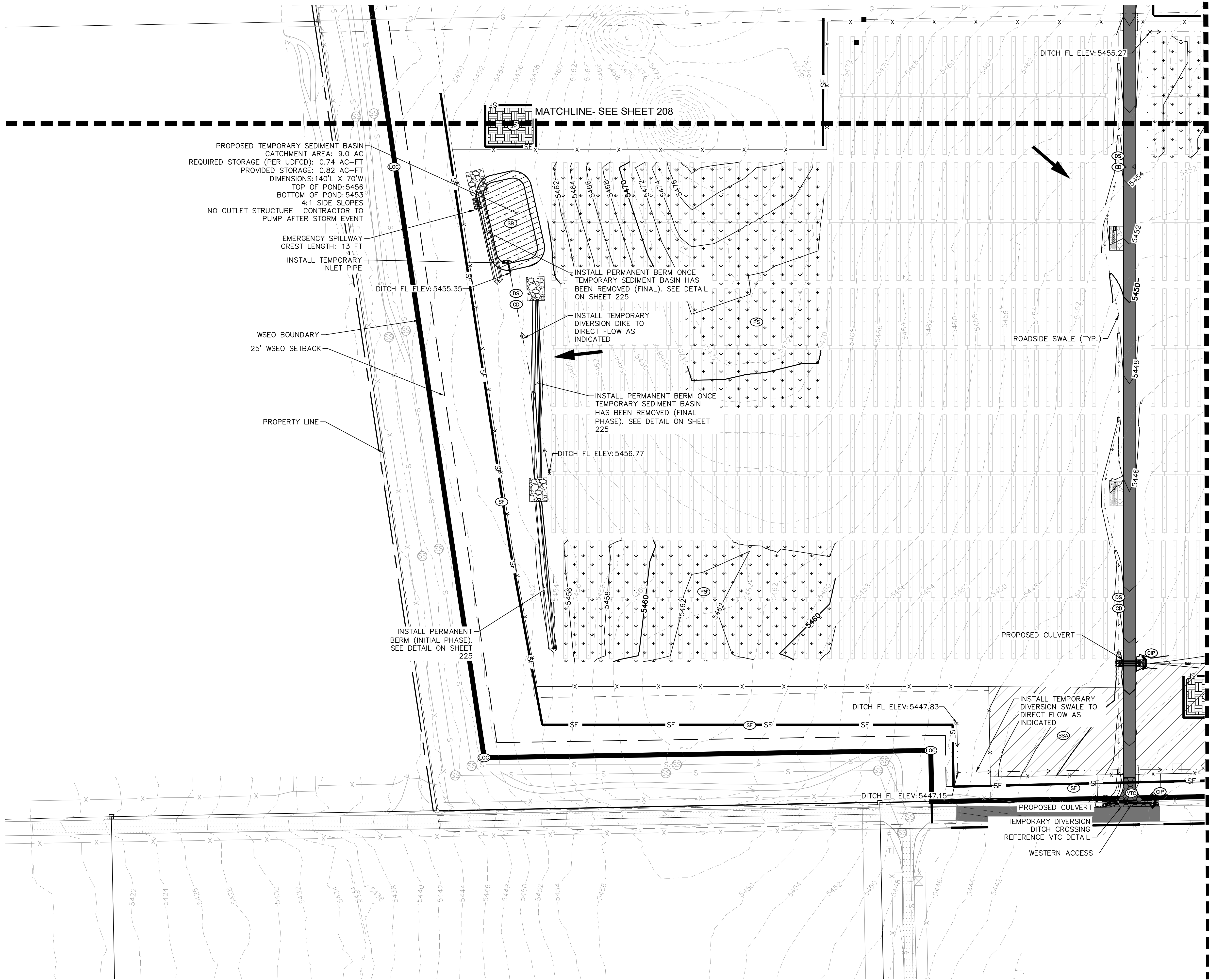
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2 N. NEVADA AVENUE, SUITE 300  
COLORADO SPRINGS, CO 80903 (719) 453-0180

|                            |                          |                  |
|----------------------------|--------------------------|------------------|
| DESIGNED<br>EJG            | DRAWN<br>KRK             | CHECKED<br>EJG   |
| SCALE (H): 1" = 80'        | SCALE (V):               |                  |
| DATE:<br>FEBRUARY 22, 2019 | PROJECT NO.<br>096495003 | SHEET NO.<br>209 |
| DWG. NAME<br>096495003_EC  |                          |                  |





K:\COS\_civil\096495003\_Palmer Solar\CADD\Sheets\096495003\_EC.dwg Feb. 22, 2019 kevin.kofford  
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#### KEY MAP

#### LEGEND

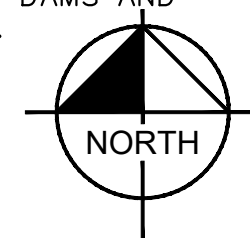
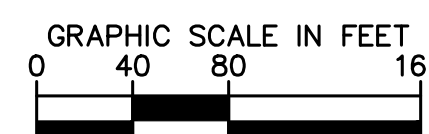
- PROPERTY LINE
- LIMITS OF CONSTRUCTION
- PERMANENT FENCE
- CONSTRUCTION FENCE
- SILT FENCE
- STRAW BALES
- DRAINAGE SWALE/DIKE
- CHECK DAM
- SSA STABILIZED STAGING AREA
- CWA CONCRETE WASHOUT
- VTC VEHICLE TRACKING CONTROL
- CIP CULVERT INLET PROTECTION
- SP SOIL STOCKPILE
- SB TEMPORARY SEDIMENT BASIN
- OVERLAND FLOW ARROW
- PERMANENT SEEDING
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- ROADSIDE SWALE

#### LIMITS OF CONSTRUCTION

|                      |                |
|----------------------|----------------|
| ONSITE IMPROVEMENTS  | = ±557.5 ACRES |
| OFFSITE IMPROVEMENTS | = ±1.5 ACRES   |
| TOTAL                | = ±559 ACRES   |

#### NOTES

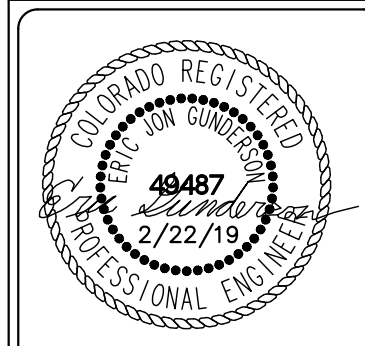
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- FOR GRADING OF PERMANENT CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.



### PALMER SOLAR GRADING AND EROSION CONTROL PLAN EL PASO COUNTY, CO

**Kimley»Horn**

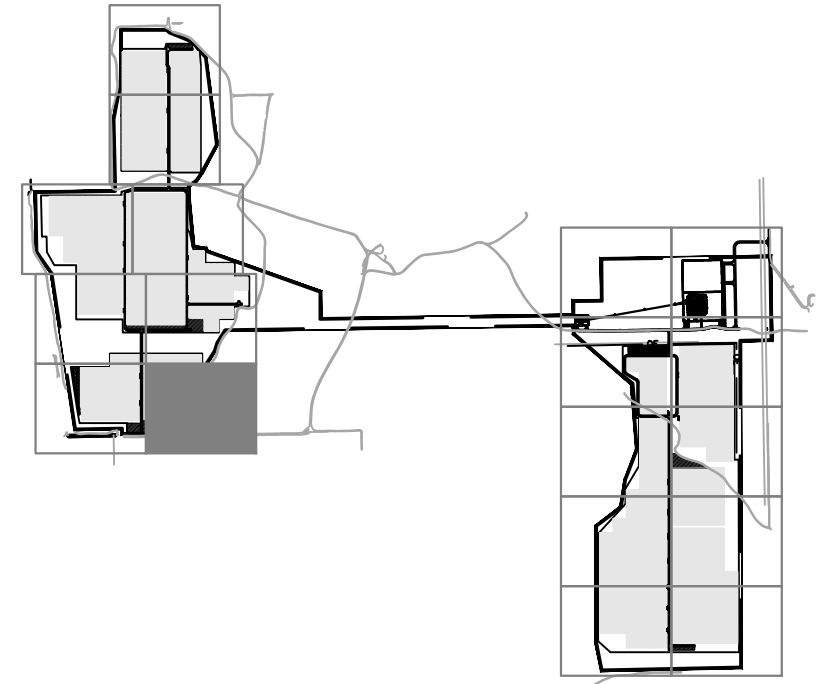
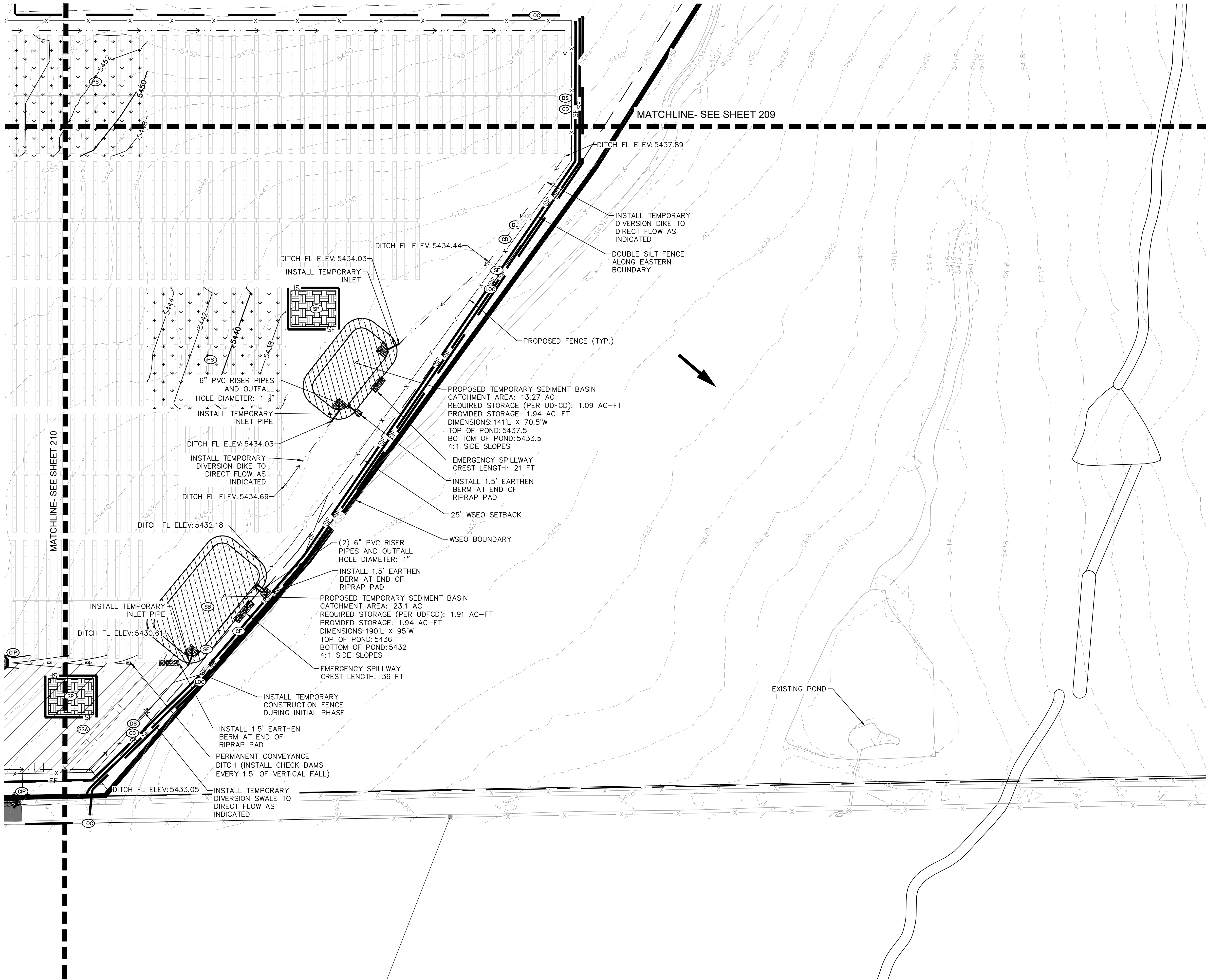
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|                            |                          |                  |
|----------------------------|--------------------------|------------------|
| DESIGNED<br>EJG            | DRAWN<br>KRK             | CHECKED<br>EJG   |
| SCALE (H): 1" = 80'        | SCALE (V):               |                  |
| DATE:<br>FEBRUARY 22, 2019 | PROJECT NO.<br>096495003 | SHEET NO.<br>210 |
| DWG. NAME<br>096495003_EC  |                          |                  |



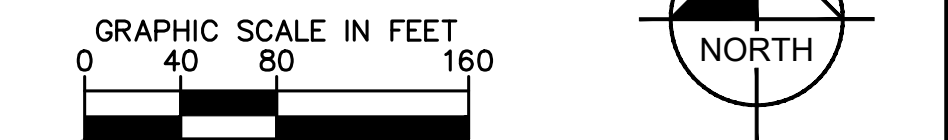
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| KEY MAP |                          |
|---------|--------------------------|
| LEGEND  | PROPERTY LINE            |
| ---     | LIMITS OF CONSTRUCTION   |
| X       | PERMANENT FENCE          |
| CF      | CONSTRUCTION FENCE       |
| SF      | SILT FENCE               |
| SB      | STRAW BALES              |
| DS      | DRAINAGE SWALE/DIKE      |
| CD      | CHECK DAM                |
| SSA     | STABILIZED STAGING AREA  |
| CWA     | CONCRETE WASHOUT         |
| VTC     | VEHICLE TRACKING CONTROL |
| CIP     | CULVERT INLET PROTECTION |
| SP      | SOIL STOCKPILE           |
| SB      | TEMPORARY SEDIMENT BASIN |
| ←       | OVERLAND FLOW ARROW      |
| PS      | PERMANENT SEEDING        |
| -5496-  | EXISTING MINOR CONTOUR   |
| -5496-  | EXISTING MAJOR CONTOUR   |
| -5496-  | PROPOSED MINOR CONTOUR   |
| -5496-  | PROPOSED MAJOR CONTOUR   |
| ---     | ROADSIDE SWALE           |

| LIMITS OF CONSTRUCTION |                |
|------------------------|----------------|
| ONSITE IMPROVEMENTS    | = ±557.5 ACRES |
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| TOTAL                  | = ±559 ACRES   |

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  - FOR GRADING OF PERMANENT CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.



PALMER SOLAR  
GRADING AND EROSION  
CONTROL PLAN  
EL PASO COUNTY, CO

**Kimley»Horn**

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|                            |              |                |
|----------------------------|--------------|----------------|
| DESIGNED<br>EJG            | DRAWN<br>KRK | CHECKED<br>EJG |
| SCALE (H): 1" = 80'        |              |                |
| SCALE (V):                 |              |                |
| DATE:<br>FEBRUARY 22, 2019 |              |                |
| PROJECT NO.<br>096495003   |              |                |
| DWG. NAME<br>096495003_EC  |              |                |

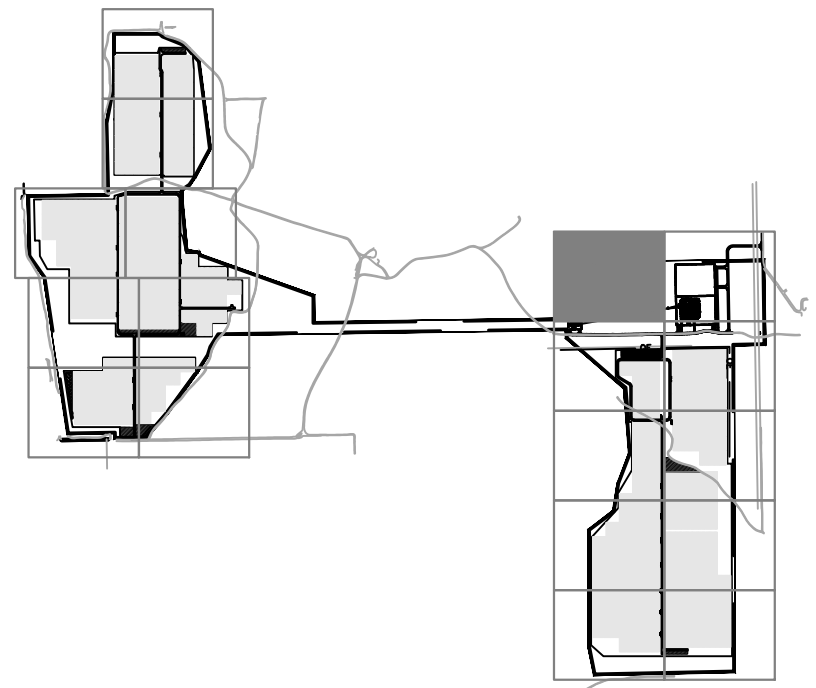
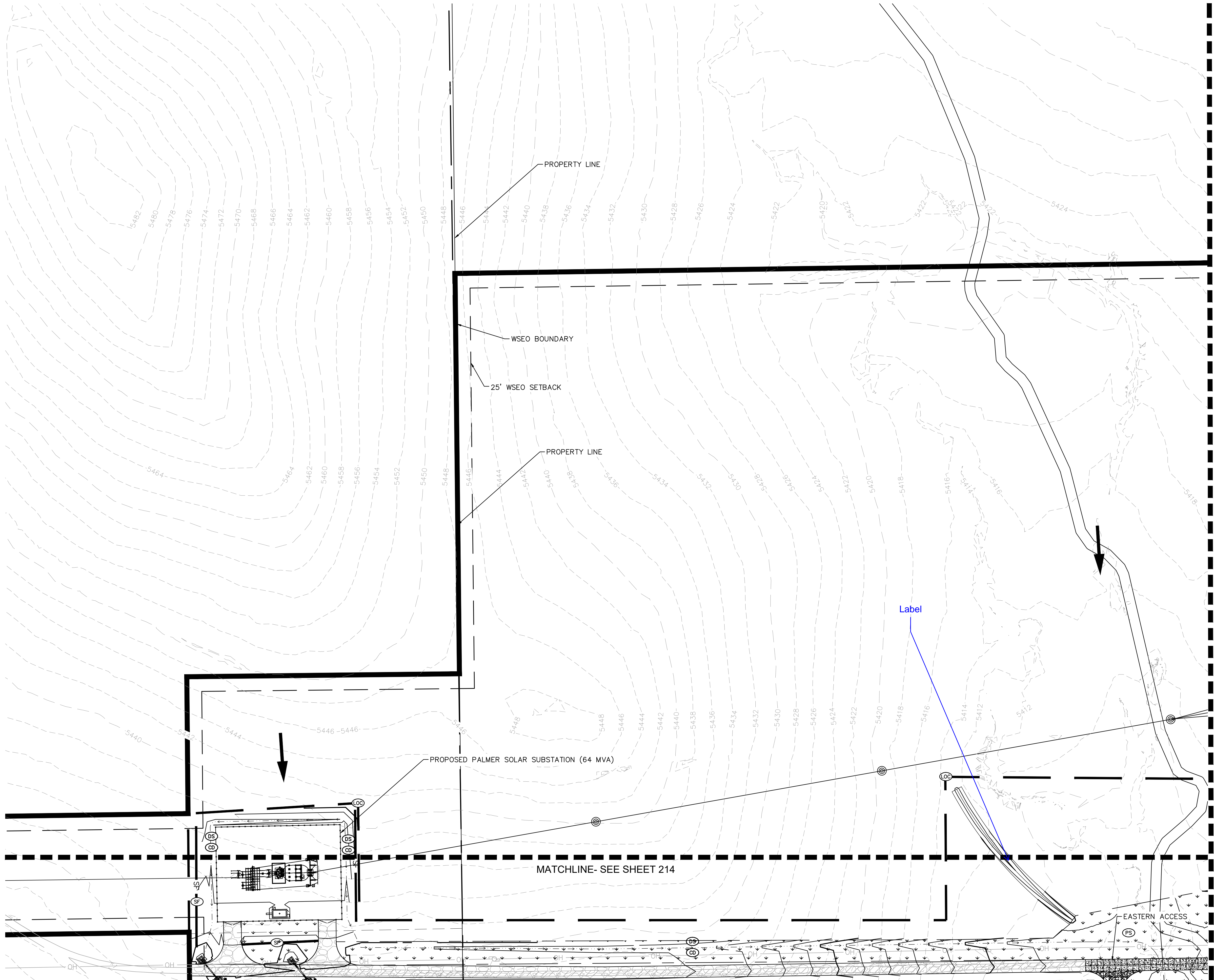
SHEET NO.  
**211**

49487  
1/22/19  
PROFESSIONAL ENGINEER

GRADING AND EROSION CONTROL PLAN—PLAN SUBMITTAL



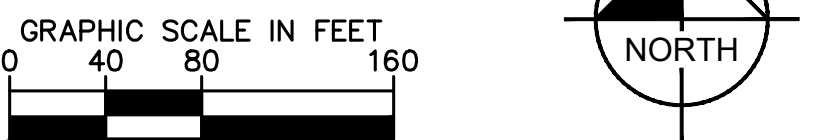
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| LEGEND |                          | KEY MAP                  |
|--------|--------------------------|--------------------------|
|        | PROPERTY LINE            | LIMITS OF CONSTRUCTION   |
|        | PERMANENT FENCE          | CONSTRUCTION FENCE       |
|        | CONSTRUCTION FENCE       | SILT FENCE               |
|        | SILT FENCE               | STRAW BALES              |
|        | DRAINAGE SWALE/DIKE      | DRAINAGE SWALE/DIKE      |
|        | CHECK DAM                | STABILIZED STAGING AREA  |
|        | CONCRETE WASHOUT         | VEHICLE TRACKING CONTROL |
|        | CULVERT INLET PROTECTION | SOIL STOCKPILE           |
|        | TEMPORARY SEDIMENT BASIN | PERMANENT SEEDING        |
|        | OVERLAND FLOW ARROW      |                          |
|        | EXISTING MINOR CONTOUR   |                          |
|        | EXISTING MAJOR CONTOUR   |                          |
|        | PROPOSED MINOR CONTOUR   |                          |
|        | PROPOSED MAJOR CONTOUR   |                          |
|        | ROADSIDE SWALE           |                          |

| LIMITS OF CONSTRUCTION |                |
|------------------------|----------------|
| ONSITE IMPROVEMENTS    | = ±557.5 ACRES |
| OFFSITE IMPROVEMENTS   | = ±1.5 ACRES   |
| TOTAL                  | = ±559 ACRES   |

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PALMER SOLAR  
GRADING AND EROSION  
CONTROL PLAN  
EL PASO COUNTY, CO

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|                            |              |                         |
|----------------------------|--------------|-------------------------|
| DESIGNED<br>EJG            | DRAWN<br>KRK | CHECKED<br>EJG          |
| SCALE (H): 1" = 80'        |              | SHEET NO.<br><b>212</b> |
| SCALE (V):                 |              |                         |
| DATE:<br>FEBRUARY 22, 2019 |              |                         |
| PROJECT NO.<br>096495003   |              |                         |
| DWG. NAME<br>096495003_EC  |              |                         |

49487

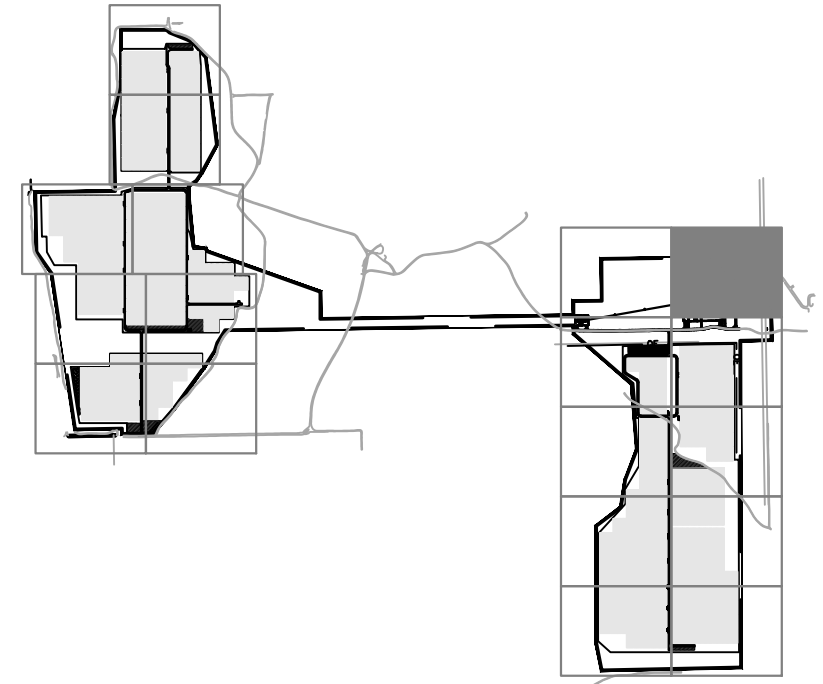
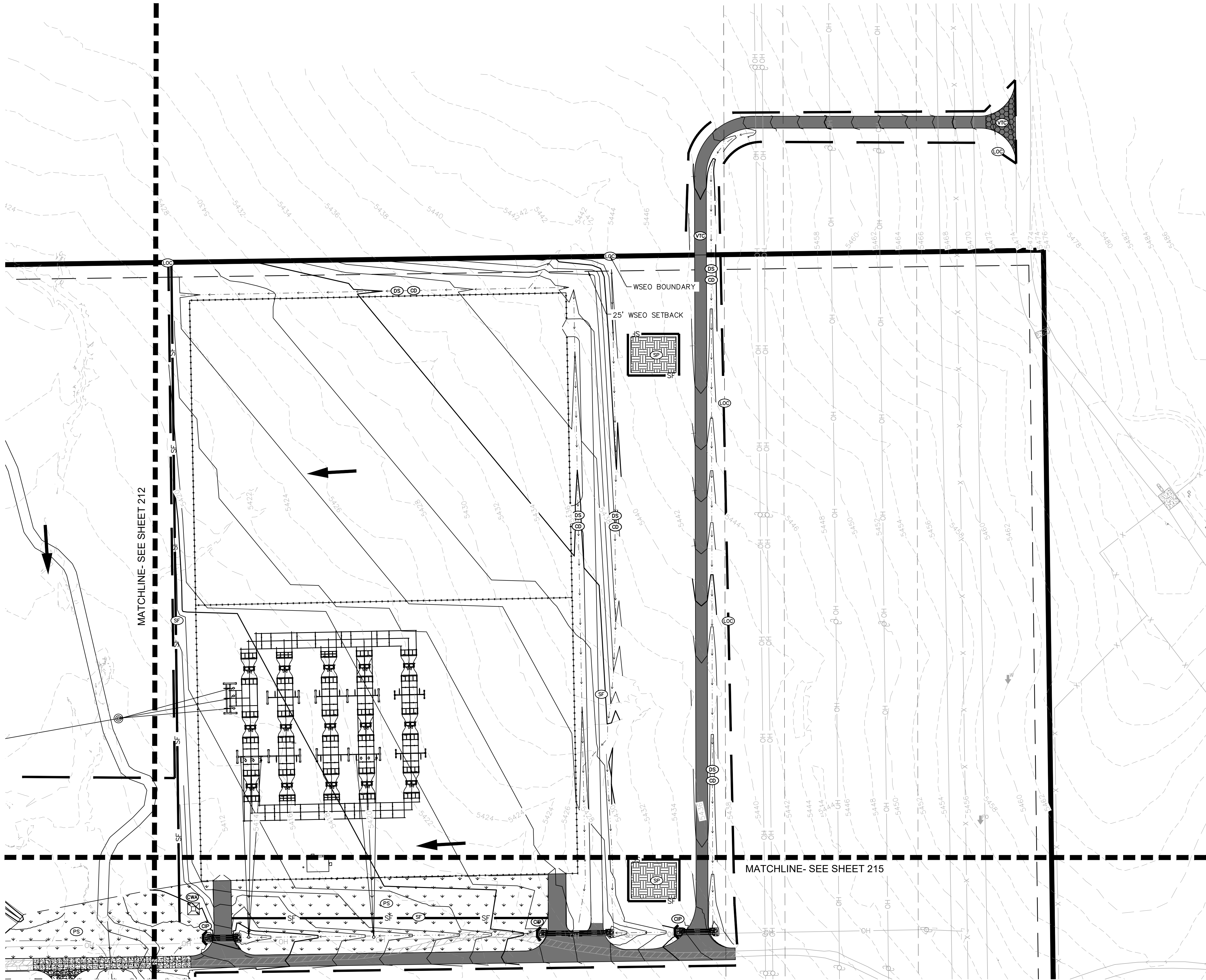
PROFESSIONAL ENGINEER

1/22/19

GRADING AND EROSION CONTROL PLAN-PLAN SUBMITTAL



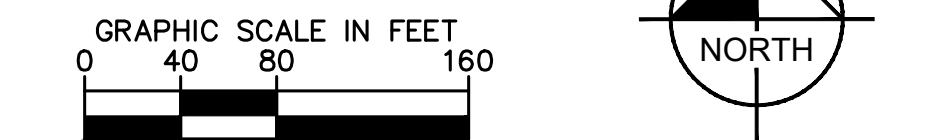
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| LEGEND |                          |
|--------|--------------------------|
|        | PROPERTY LINE            |
|        | LIMITS OF CONSTRUCTION   |
|        | PERMANENT FENCE          |
|        | CONSTRUCTION FENCE       |
|        | SILT FENCE               |
|        | STRAW BALES              |
|        | DRAINAGE SWALE/DIKE      |
|        | CHECK DAM                |
|        | STABILIZED STAGING AREA  |
|        | CONCRETE WASHOUT         |
|        | VEHICLE TRACKING CONTROL |
|        | CULVERT INLET PROTECTION |
|        | SOIL STOCKPILE           |
|        | TEMPORARY SEDIMENT BASIN |
|        | OVERLAND FLOW ARROW      |
|        | PERMANENT SEEDING        |
|        | EXISTING MINOR CONTOUR   |
|        | EXISTING MAJOR CONTOUR   |
|        | PROPOSED MINOR CONTOUR   |
|        | PROPOSED MAJOR CONTOUR   |
|        | ROADSIDE SWALE           |

| LIMITS OF CONSTRUCTION |                |
|------------------------|----------------|
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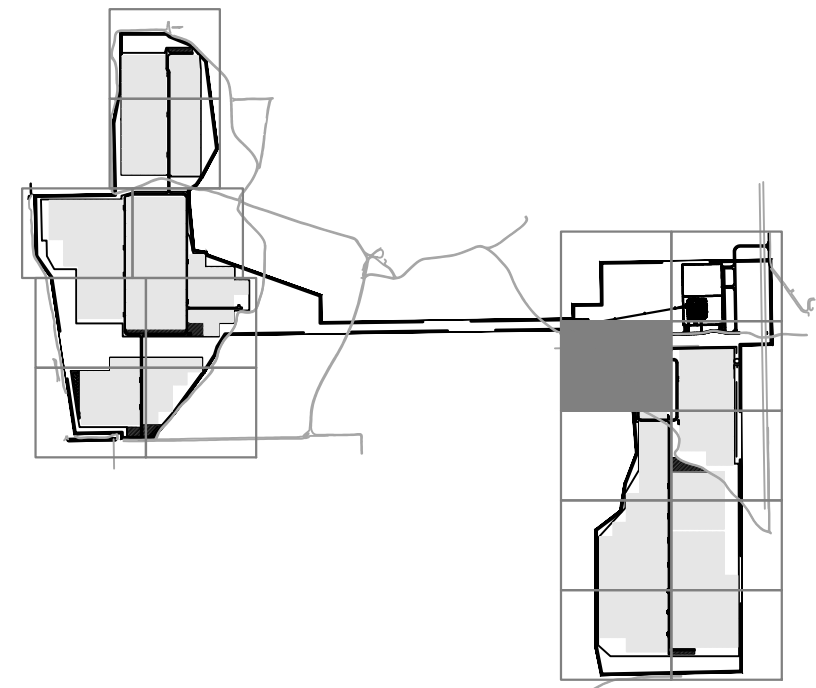
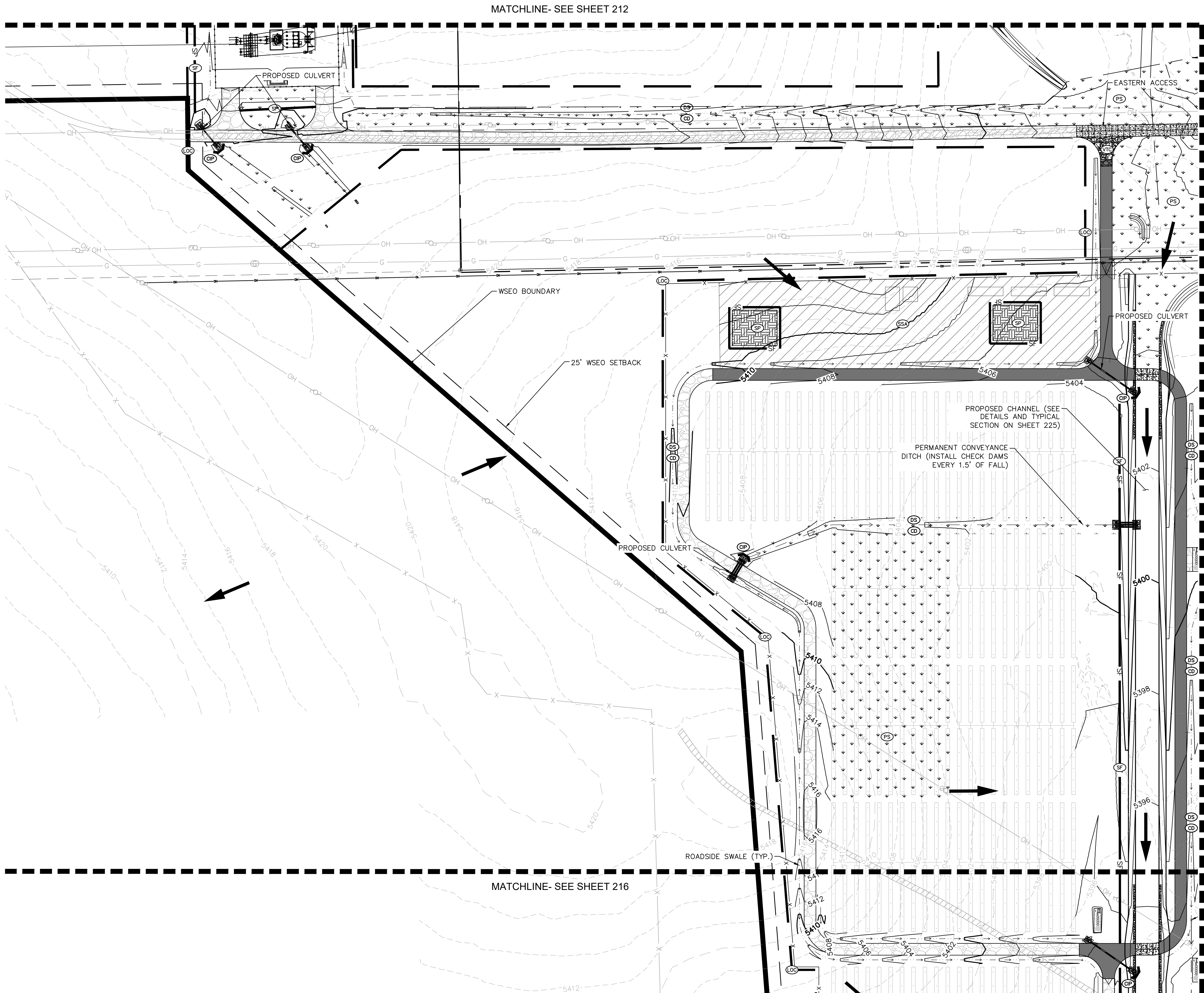
PALMER SOLAR  
GRADING AND EROSION  
CONTROL PLAN  
EL PASO COUNTY, CO

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COLORADO SPRINGS, CO 80903 (719) 453-0180

|                                   |              |                         |
|-----------------------------------|--------------|-------------------------|
| DESIGNED<br>EJG                   | DRAWN<br>KRK | CHECKED<br>EJG          |
| SCALE (H): 1" = 80'<br>SCALE (V): |              | SHEET NO.<br><b>213</b> |
| DATE:<br>FEBRUARY 22, 2019        |              |                         |
| PROJECT NO.<br>096495003          |              |                         |
| DWG. NAME<br>096495003_EC         |              |                         |



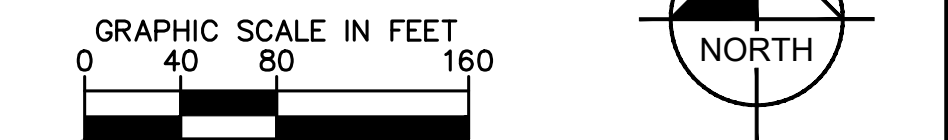
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XREFS: x096495003b\_c04\_EC x096495003vf c0404\_wseo\_overlay\_boundary\_180712 x096495003drt x096495003jlt  
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| KEY MAP |                          |
|---------|--------------------------|
| LEGEND  | PROPERTY LINE            |
| ---     | LIMITS OF CONSTRUCTION   |
| X       | PERMANENT FENCE          |
| CF      | CONSTRUCTION FENCE       |
| SF      | SILT FENCE               |
| □       | STRAW BALES              |
| →       | DRAINAGE SWALE/DIKE      |
| CD      | CHECK DAM                |
| SSA     | STABILIZED STAGING AREA  |
| CWA     | CONCRETE WASHOUT         |
| VTC     | VEHICLE TRACKING CONTROL |
| CP      | CULVERT INLET PROTECTION |
| SP      | SOIL STOCKPILE           |
| SB      | TEMPORARY SEDIMENT BASIN |
| ←       | OVERLAND FLOW ARROW      |
| PS      | PERMANENT SEEDING        |
| -5496-  | EXISTING MINOR CONTOUR   |
| -5496-  | EXISTING MAJOR CONTOUR   |
| -5496-  | PROPOSED MINOR CONTOUR   |
| -5496-  | PROPOSED MAJOR CONTOUR   |
| -5496-  | ROADSIDE SWALE           |

| LIMITS OF CONSTRUCTION |                |
|------------------------|----------------|
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CONTROL PLAN  
EL PASO COUNTY, CO

**Kimley-Horn**

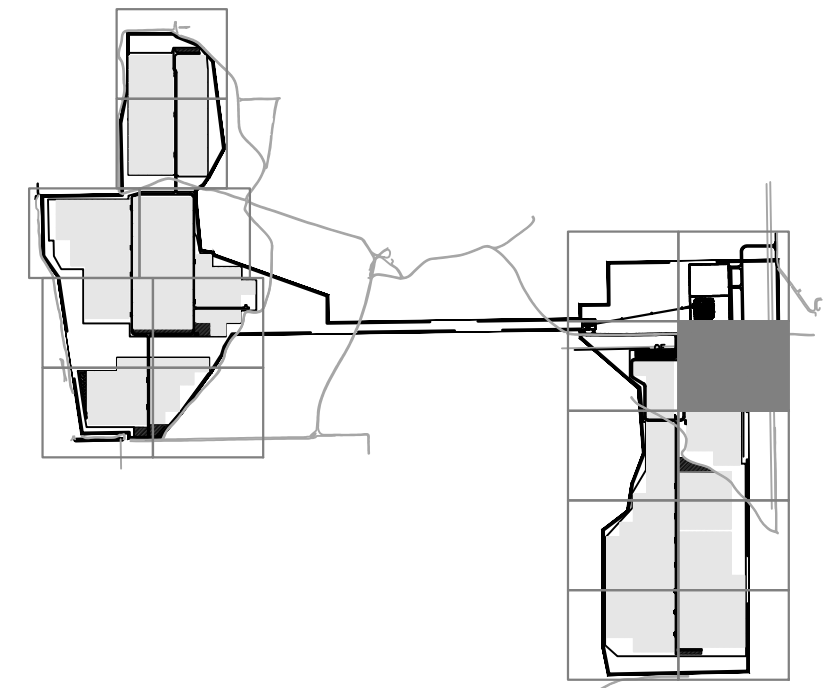
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2 N. NEVADA AVENUE, SUITE 300  
COLORADO SPRINGS, CO 80903 (719) 453-0180

|                            |              |                |
|----------------------------|--------------|----------------|
| DESIGNED<br>EJG            | DRAWN<br>KRK | CHECKED<br>EJG |
| SCALE (H): 1" = 80'        |              |                |
| SCALE (V):                 |              |                |
| DATE:<br>FEBRUARY 22, 2019 |              |                |
| PROJECT NO.<br>096495003   |              |                |
| DWG. NAME<br>096495003_EC  |              |                |

SHEET NO.  
**214**



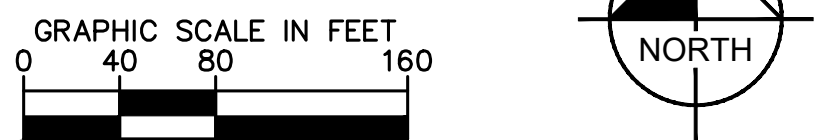
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OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADJUSTMENT BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.



| LEGEND |                          |
|--------|--------------------------|
| ---    | PROPERTY LINE            |
| ---    | LIMITS OF CONSTRUCTION   |
| X      | PERMANENT FENCE          |
| CF     | CONSTRUCTION FENCE       |
| SF     | SILT FENCE               |
| ---    | STRAW BALES              |
| ---    | DRAINAGE SWALE/DIKE      |
| CD     | CHECK DAM                |
| SSA    | STABILIZED STAGING AREA  |
| CWA    | CONCRETE WASHOUT         |
| VTC    | VEHICLE TRACKING CONTROL |
| CIP    | CULVERT INLET PROTECTION |
| SP     | SOIL STOCKPILE           |
| SB     | TEMPORARY SEDIMENT BASIN |
| ---    | OVERLAND FLOW ARROW      |
| PS     | PERMANENT SEEDING        |
| ---    | EXISTING MINOR CONTOUR   |
| ---    | EXISTING MAJOR CONTOUR   |
| ---    | PROPOSED MINOR CONTOUR   |
| ---    | PROPOSED MAJOR CONTOUR   |
| ---    | ROADSIDE SWALE           |

| LIMITS OF CONSTRUCTION |                |
|------------------------|----------------|
| ONSITE IMPROVEMENTS    | = ±557.5 ACRES |
| OFFSITE IMPROVEMENTS   | = ±1.5 ACRES   |
| TOTAL                  | = ±559 ACRES   |

- NOTES**
1. TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
  2. THIS PLAN SHOWS BOTH INITIAL AND FINAL BMP. REFERENCE SHEET 201 FOR PHASING AND SEQUENCING PLAN.
  3. CONTRACTOR SHALL MAINTAIN STABILIZED STAGING AREA (SSA), VEHICLE TRACKING CONTROL (VTC), AND CONCRETE WASHOUT AREA (CWA) AT THE CONSTRUCTION ENTRANCE AT ALL TIMES. CONTRACTOR SHALL UPDATE THE EROSION CONTROL PLAN IN THE FIELD TO INDICATE THE LOCATION OF THE SSA, VTC, AND CWA BMPS AS EXCAVATION SEQUENCING DICTATES.
  4. CHECK DAMS TO BE SPACED ALONG ALL TEMPORARY AND PERMANENT DRAINAGE SWALES AND DITCHES PER UDFCD DETAILS (ONE CHECK DAM PER 1.5 FEET OF FALL). SCL MAY BE USED IN PLACE OF RIP RAP FOR ROADSIDE SWALES OR TEMPORARY DIVERSION DITCHES.
  5. FOR GRADING OF PERMANENT CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.



PALMER SOLAR  
GRADING AND EROSION  
CONTROL PLAN  
EL PASO COUNTY, CO

**Kimley»Horn**

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2 N. NEVADA AVENUE, SUITE 300  
COLORADO SPRINGS, CO 80903 (719) 453-0180

|                                   |              |                |
|-----------------------------------|--------------|----------------|
| DESIGNED<br>EJG                   | DRAWN<br>KRK | CHECKED<br>EJG |
| SCALE (H): 1" = 80'<br>SCALE (V): |              |                |
| DATE:<br>FEBRUARY 22, 2019        |              |                |
| PROJECT NO.<br>096495003          |              |                |
| DWG. NAME<br>096495003_EC         |              |                |
| SHEET NO.<br>215                  |              |                |



GRADING AND EROSION CONTROL PLAN-SUBMITTAL



5412

5410

5408

5406

5404

5402

5400

5398

5396

5394

5392

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5388

5386

5384

WSEO BOUNDARY

25' WSEO SETBACK

PROPOSED FENCE (TYP.)

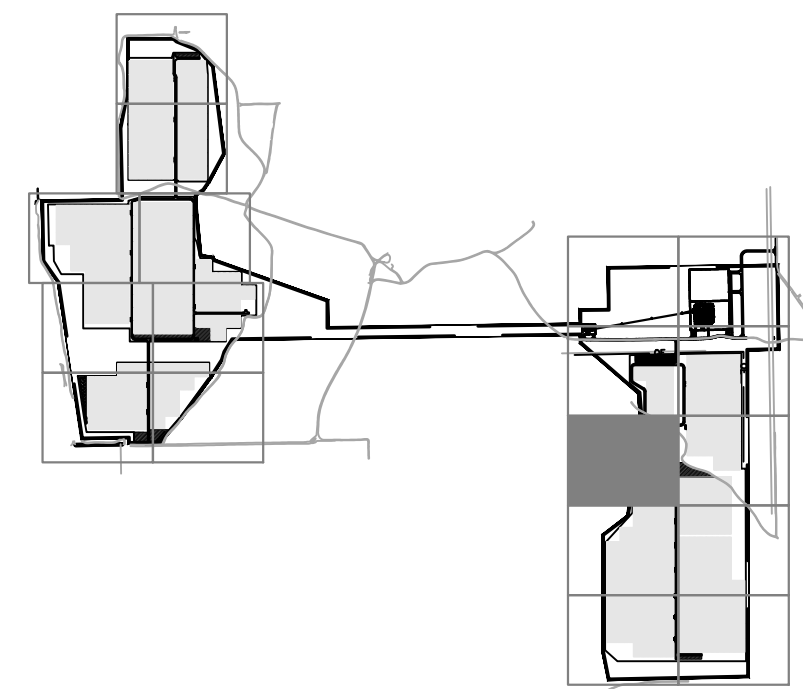
PROPOSED CHANNEL (SEE DETAILS AND TYPICAL SECTION ON SHEET 225)

ROADSIDE SWALE (TYP.)

PROPOSED CULVERT

INSTALL TEMPORARY DIVERSION DIKE TO DIRECT FLOW AS INDICATED

MATCHLINE- SEE SHEET 218



### LEGEND

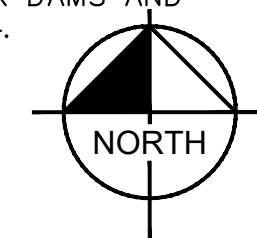
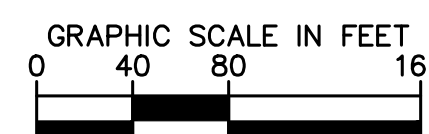
**LEGEND**

|  |                                |
|--|--------------------------------|
|  | (LC) LIMITS OF CONSTRUCTION    |
|  | PERMANENT FENCE                |
|  | (CF) CONSTRUCTION FENCE        |
|  | (SF) SILT FENCE                |
|  | STRAW BALES                    |
|  | (DS) DRAINAGE SWALE/DIKE       |
|  | (CD) CHECK DAM                 |
|  | (SSA) STABILIZED STAGING AREA  |
|  | (CWA) CONCRETE WASHOUT         |
|  | (VTC) VEHICLE TRACKING CONTROL |
|  | (CIP) CULVERT INLET PROTECTION |
|  | (SP) SOIL STOCKPILE            |
|  | (SB) TEMPORARY SEDIMENT BASIN  |
|  | OVERLAND FLOW ARROW            |
|  | (PS) PERMANENT SEEDING         |
|  | EXISTING MINOR CONTOUR         |
|  | EXISTING MAJOR CONTOUR         |
|  | PROPOSED MINOR CONTOUR         |
|  | PROPOSED MAJOR CONTOUR         |
|  | ROADSIDE SWALE                 |

|                             |                     |
|-----------------------------|---------------------|
| ONSITE IMPROVEMENTS         | = ±557.5 ACRES      |
| <u>OFFSITE IMPROVEMENTS</u> | <u>= ±1.5 ACRES</u> |
| TOTAL                       | = ±559 ACRES        |

TOTAL  
NOTES

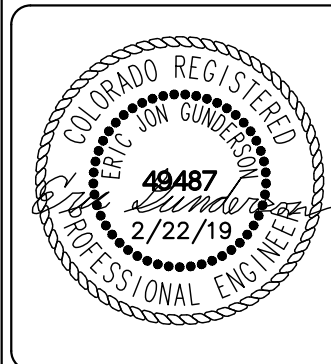
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5. FOR GRADING OF PERMANENT CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.



PALMER SOLAR  
GRADING AND EROSION  
CONTROL PLAN  
EL PASO COUNTY, CO

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2 N. NEVADA AVENUE, SUITE 300  
COLORADO SPRINGS, CO 80903 (719) 453-0



|                            |              |                |
|----------------------------|--------------|----------------|
| DESIGNED<br>EJG            | DRAWN<br>KRK | CHECKED<br>EJG |
| SCALE (H): 1" = 80'        |              |                |
| SCALE (V):                 |              |                |
| DATE:<br>FEBRUARY 22, 2019 |              | SHEET NO.      |
| PROJECT NO.<br>096495003   |              | 216            |
| DWG. NAME<br>096495003.FC  |              |                |

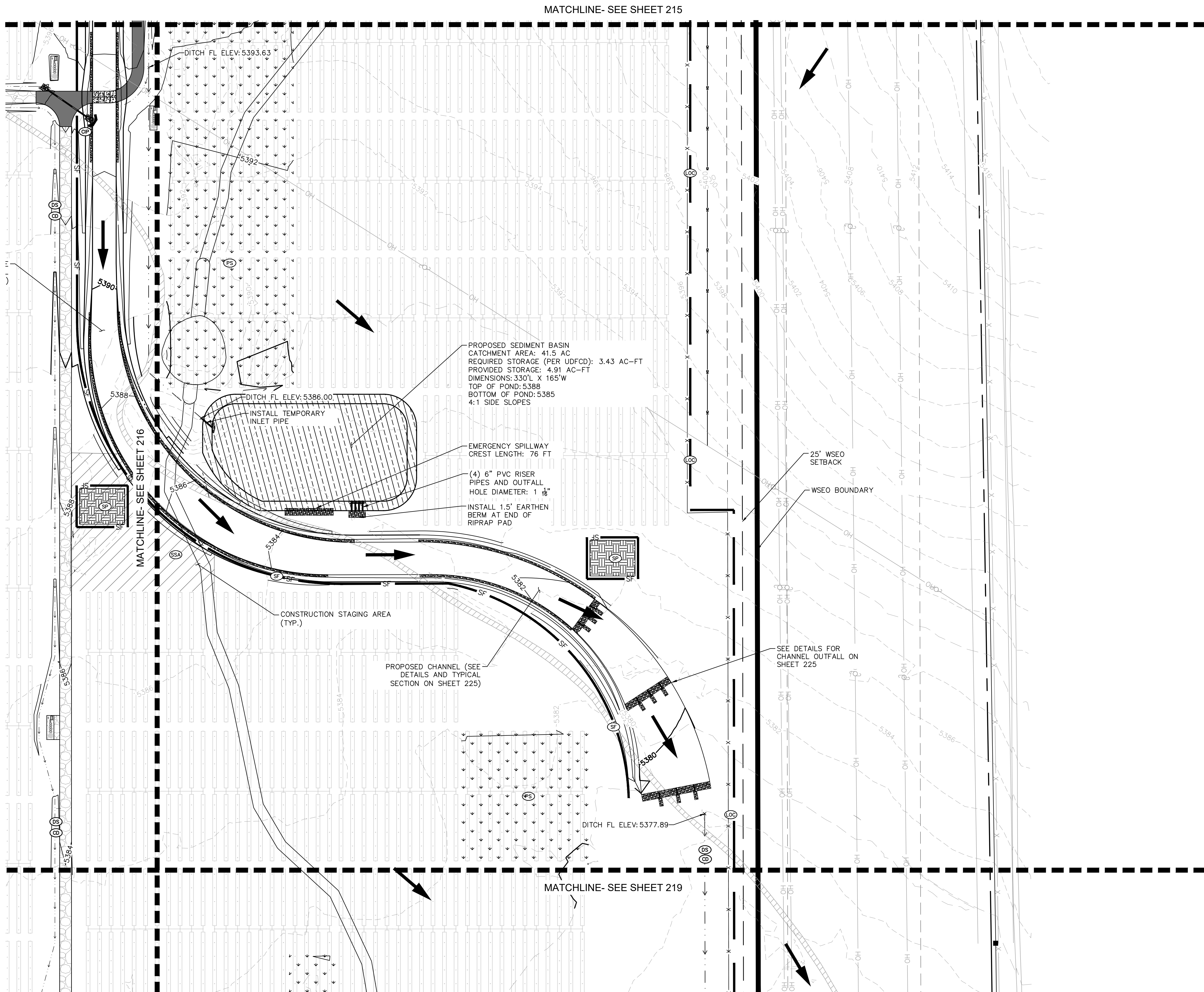
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Know what's below.  
Call before you dig.

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 | 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 | 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 | 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 | 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 | 150 | 151 | 152 | 153 | 154 | 155 | 156 | 157 | 158 | 159 | 160 | 161 | 162 | 163 | 164 | 165 | 166 | 167 | 168 | 169 | 170 | 171 | 172 | 173 | 174 | 175 | 176 | 177 | 178 | 179 | 180 | 181 | 182 | 183 | 184 | 185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|



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OF AND IMPROPER RELIANCE ON THIS DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ASSUMPTION BY KIMLEY-HORN AND ASSOCIATES, INC. SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.



**KEY MAP**

**LEGEND**

- PROPERTY LINE
- LIMITS OF CONSTRUCTION
- PERMANENT FENCE
- CONSTRUCTION FENCE
- SILT FENCE
- STRAW BALES
- DRAINAGE SWALE/DIKE
- CHECK DAM
- SSA STABILIZED STAGING AREA
- CWA CONCRETE WASHOUT
- VTC VEHICLE TRACKING CONTROL
- CIP CULVERT INLET PROTECTION
- SP SOIL STOCKPILE
- SB TEMPORARY SEDIMENT BASIN
- OVERLAND FLOW ARROW
- PERMANENT SEEDING
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- ROADSIDE SWALE

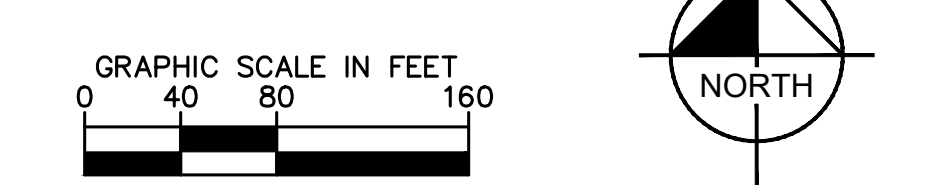
**LIMITS OF CONSTRUCTION**

ONSITE IMPROVEMENTS = ±557.5 ACRES

OFFSITE IMPROVEMENTS = ±1.5 ACRES

TOTAL = ±559 ACRES

- NOTES**
- TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
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**PALMER SOLAR  
GRADING AND EROSION  
CONTROL PLAN  
EL PASO COUNTY, CO**

**Kimley»Horn**

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2 N. NEVADA AVENUE, SUITE 300  
COLORADO SPRINGS, CO 80903 (719) 453-0180

|                            |              |                |
|----------------------------|--------------|----------------|
| DESIGNED<br>EJG            | DRAWN<br>KRK | CHECKED<br>EJG |
| SCALE (H): 1" = 80'        |              |                |
| SCALE (V):                 |              |                |
| DATE:<br>FEBRUARY 22, 2019 |              |                |
| PROJECT NO.<br>096495003   |              |                |
| DWG. NAME<br>096495003_EC  |              |                |

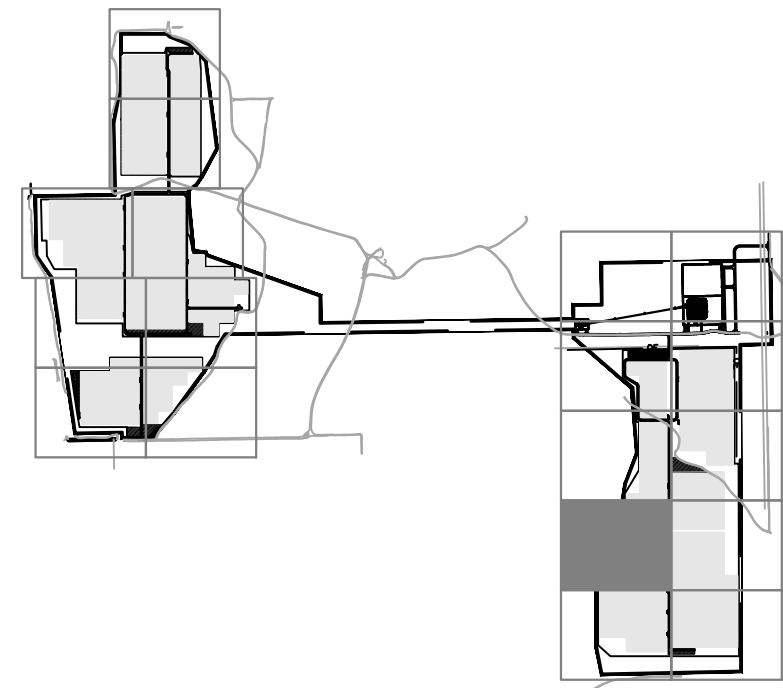
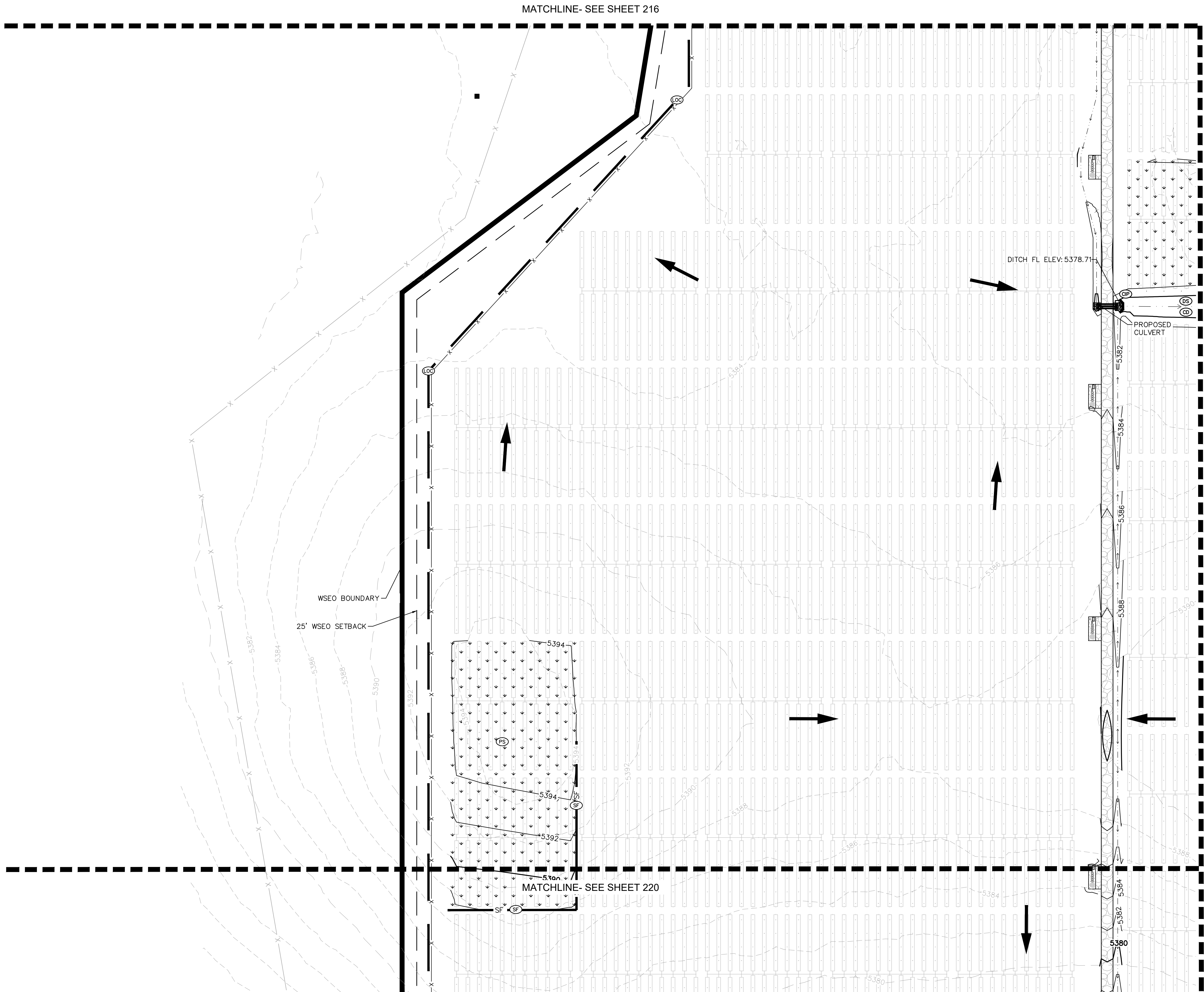
SHEET NO.  
**217**

49487  
KIMLEY-HORN  
PROFESSIONAL ENGINEER  
1/22/19

GRADING AND EROSION CONTROL PLAN-SUBMITTAL



K:\COS\_civil\096495003\_Palmer Solar\CADD\Sheets\096495003\_EC.dwg Feb. 22, 2019 kevin.kofford  
XREFS: x096495003b\_cd\_EC x096495003vf cd404\_wseo\_overlay\_boundary\_180712 x096495003dr x096495003jlt  
DESIGNED BY: KEVIN KOFFORD, P.E. (0000000000) CHECKED BY: JEFFREY HORN, P.E. (0000000000)  
DATE: 02/22/2019  
PROJECT NO.: 096495003  
DWG. NAME: 096495003\_EC  
SCALE: 1" = 80'  
SHEET NO.: 218



#### KEY MAP

#### LEGEND

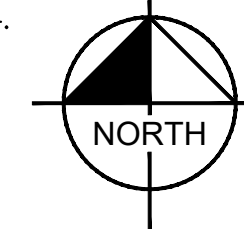
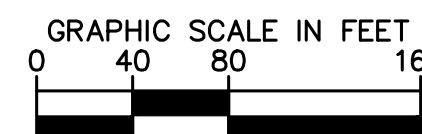
|     |                          |
|-----|--------------------------|
| --- | PROPERTY LINE            |
| --- | LIMITS OF CONSTRUCTION   |
| X   | PERMANENT FENCE          |
| CF  | CONSTRUCTION FENCE       |
| SF  | SILT FENCE               |
| --- | STRAW BALES              |
| --- | DRAINAGE SWALE/DIKE      |
| CD  | CHECK DAM                |
| SSA | STABILIZED STAGING AREA  |
| CWA | CONCRETE WASHOUT         |
| VTC | VEHICLE TRACKING CONTROL |
| CIP | CULVERT INLET PROTECTION |
| SP  | SOIL STOCKPILE           |
| SB  | TEMPORARY SEDIMENT BASIN |
| --- | OVERLAND FLOW ARROW      |
| PS  | PERMANENT SEEDING        |
| --- | EXISTING MINOR CONTOUR   |
| --- | EXISTING MAJOR CONTOUR   |
| --- | PROPOSED MINOR CONTOUR   |
| --- | PROPOSED MAJOR CONTOUR   |
| --- | ROADSIDE SWALE           |

#### LIMITS OF CONSTRUCTION

|                      |                |
|----------------------|----------------|
| ONSITE IMPROVEMENTS  | = ±557.5 ACRES |
| OFFSITE IMPROVEMENTS | = ±1.5 ACRES   |
| TOTAL                | = ±559 ACRES   |

#### NOTES

- TEMPORARY STABILIZATION (TS) SHALL BE IMPLEMENTED WITHIN THE DISTURBED PORTIONS OF THE PROJECT SITE NO LATER THAN 14 DAYS FOLLOWING THE CEASE OF CONSTRUCTION ACTIVITIES WITHIN THE DISTURBED AREAS.
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- FOR GRADING OF PERMANENT CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.

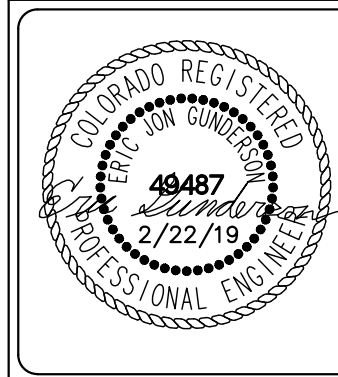


### PALMER SOLAR GRADING AND EROSION CONTROL PLAN EL PASO COUNTY, CO

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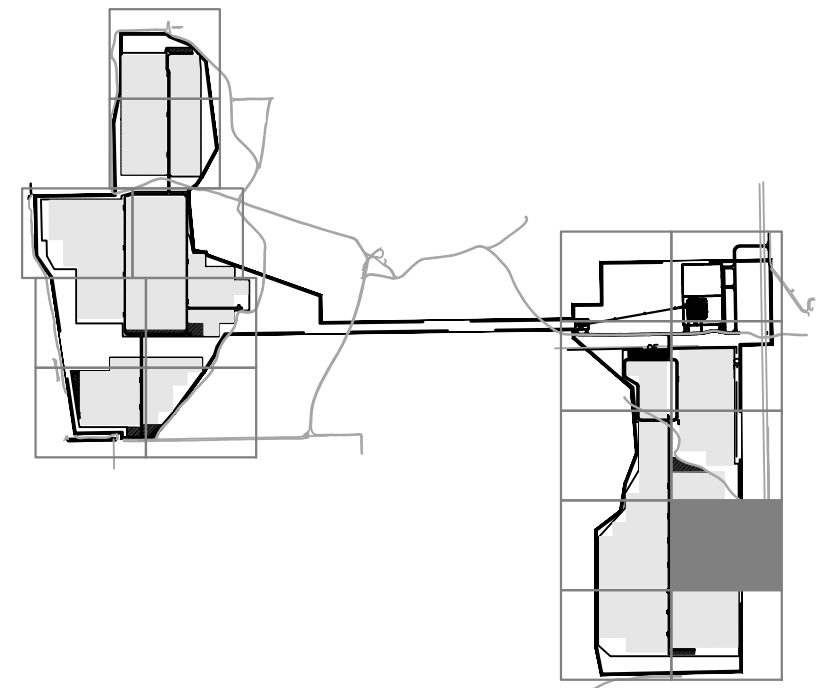
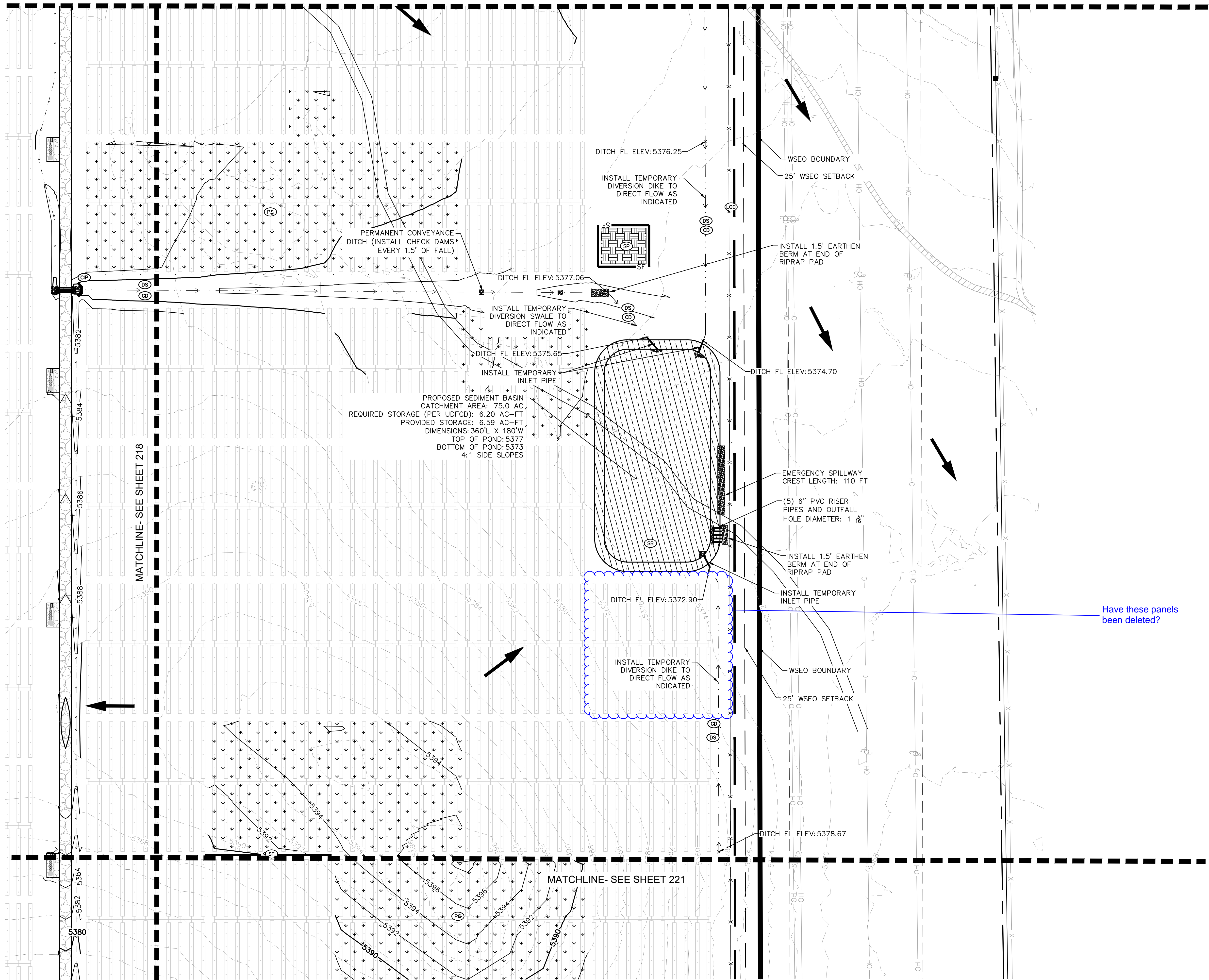
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|                            |                          |                  |
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| DESIGNED<br>EJG            | DRAWN<br>KRK             | CHECKED<br>EJG   |
| SCALE (H): 1" = 80'        | SCALE (V):               |                  |
| DATE:<br>FEBRUARY 22, 2019 | PROJECT NO.<br>096495003 | SHEET NO.<br>218 |
| DWG. NAME<br>096495003_EC  |                          |                  |





MATCHLINE- SEE SHEET 217



#### KEY MAP

#### LEGEND

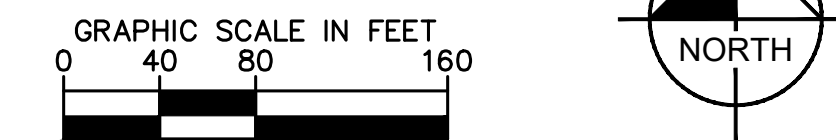
- PROPERTY LINE
- LIMITS OF CONSTRUCTION
- PERMANENT FENCE
- CONSTRUCTION FENCE
- SILT FENCE
- STRAW BALES
- DRAINAGE SWALE/DIKE
- CHECK DAM
- SSA STABILIZED STAGING AREA
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- SP SOIL STOCKPILE
- SB TEMPORARY SEDIMENT BASIN
- OVERLAND FLOW ARROW
- PERMANENT SEEDING
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- ROADSIDE SWALE

#### LIMITS OF CONSTRUCTION

- ONSITE IMPROVEMENTS = ±557.5 ACRES
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- FOR GRADING OF PERMANENT CHECK DAMS AND CHANNELS, SEE SHEETS 127 TO 144.



#### PALMER SOLAR GRADING AND EROSION CONTROL PLAN EL PASO COUNTY, CO

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|                            |                          |                  |
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| SCALE (H): 1" = 80'        | SCALE (V):               |                  |
| DATE:<br>FEBRUARY 22, 2019 | PROJECT NO.<br>096495003 | SHEET NO.<br>219 |
| DWG. NAME<br>096495003_EC  |                          |                  |

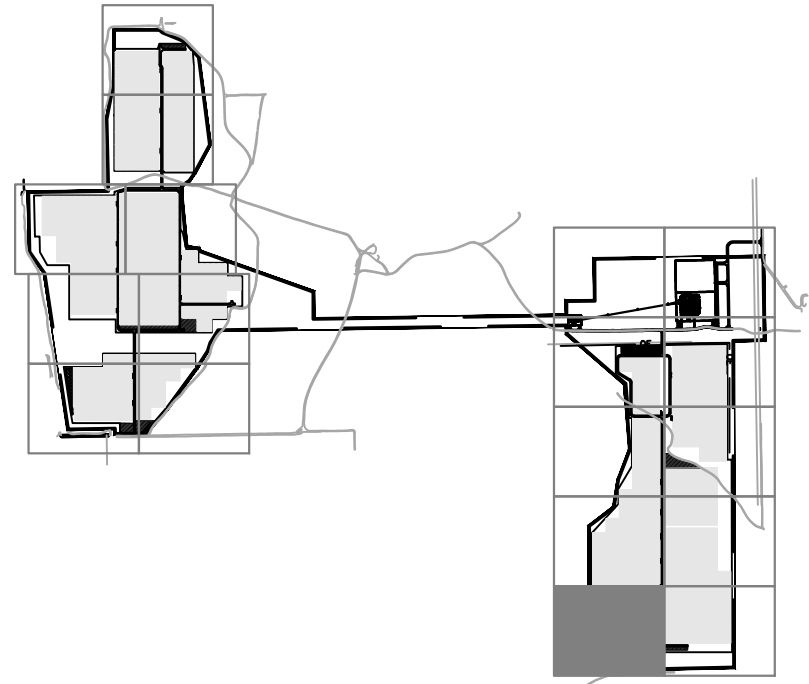


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GRADING AND EROSION CONTROL PLAN-SUBMITTAL



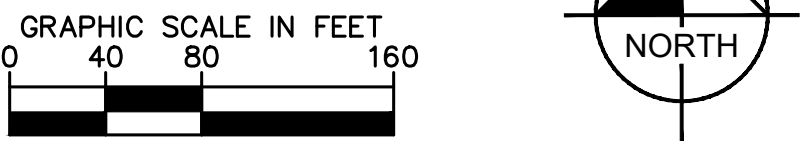
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XREFS: x096495003b\_cd\_EC x096495003vf cd404\_wseo\_overlay\_boundary\_180712 x096495003dr x096495003it  
DESIGNED BY: KEVIN KOFFORD, P.E. (00000000) CHECKED BY: KEVIN KOFFORD, P.E. (00000000)  
DRAWN BY: KEVIN KOFFORD, P.E. (00000000) DATE: 2/22/19  
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| KEY MAP |                          |
|---------|--------------------------|
| LEGEND  | PROPERTY LINE            |
| ---     | LIMITS OF CONSTRUCTION   |
| X       | PERMANENT FENCE          |
| CF      | CONSTRUCTION FENCE       |
| SF      | SILT FENCE               |
| ---     | STRAW BALES              |
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| CD      | CHECK DAM                |
| SSA     | STABILIZED STAGING AREA  |
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| ---     | PROPOSED MAJOR CONTOUR   |
| ---     | ROADSIDE SWALE           |

| LIMITS OF CONSTRUCTION |                |
|------------------------|----------------|
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PALMER SOLAR  
GRADING AND EROSION  
CONTROL PLAN  
EL PASO COUNTY, CO

**Kimley»Horn**

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2 N. NEVADA AVENUE, SUITE 300  
COLORADO SPRINGS, CO 80903 (719) 453-0180

DESIGNED: EUG  
DRAWN: KRK  
CHECKED: EUG

SCALE (H): 1" = 80'  
SCALE (V):  
DATE: FEBRUARY 22, 2019  
PROJECT NO.: 096495003  
DWG. NAME: 096495003\_EC

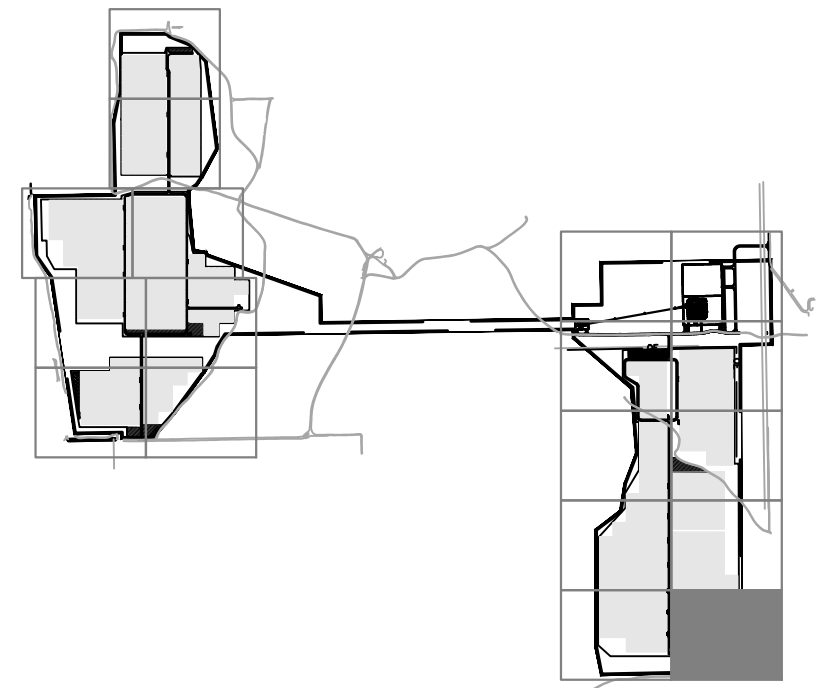
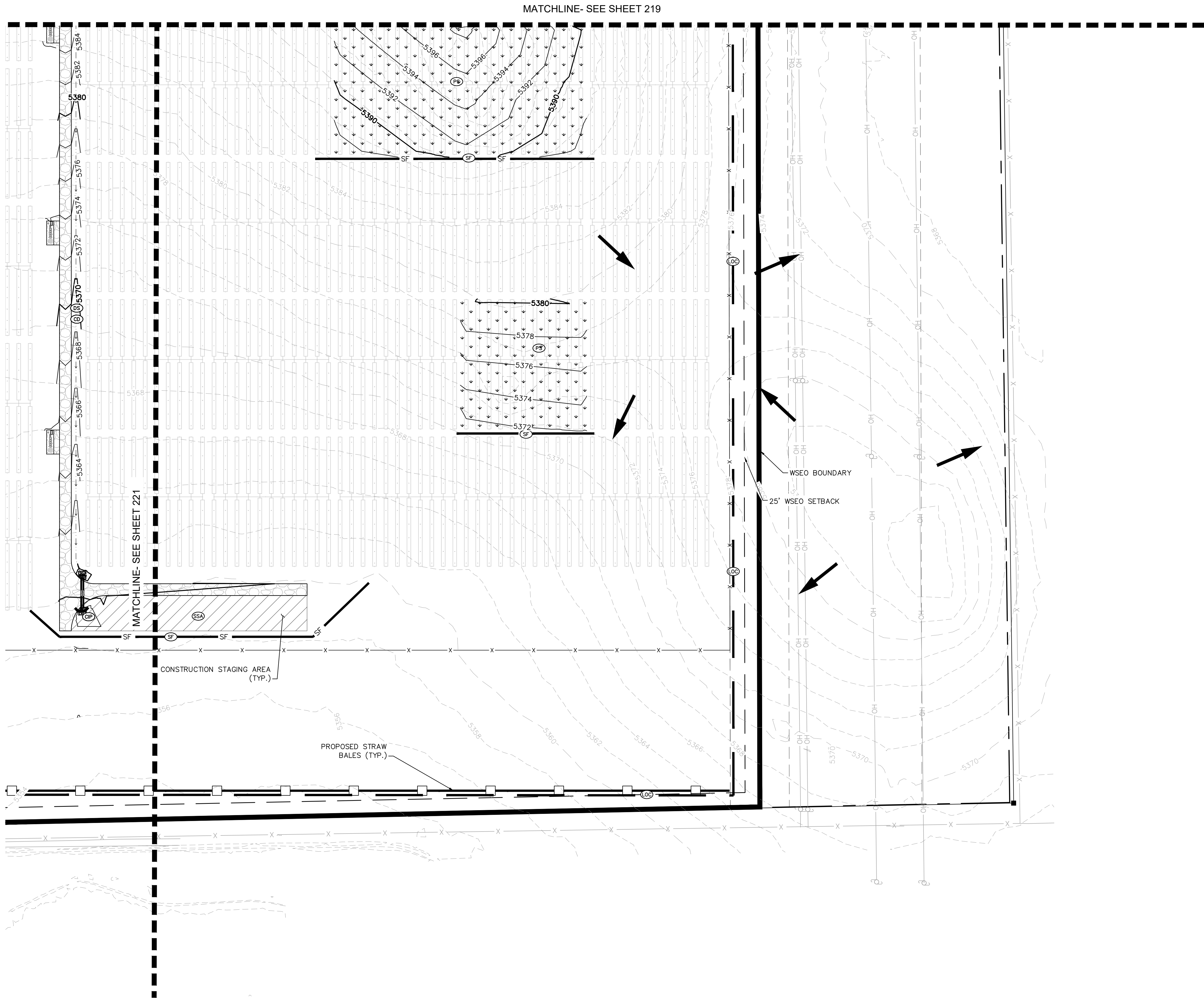
SHEET NO.: 220

49487  
KIMLEY-HORN  
PROFESSIONAL ENGINEER  
2/22/19

GRADING AND EROSION CONTROL PLAN-PLAN SUBMITTAL



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XREFS: x096495003b\_cd\_EC x096495003vf cd404\_wseo\_overlay\_boundary\_180712 x096495003dr x096495003it  
DESIGNED BY: KEVIN KOFFORD, P.E. (0000000000) CHECKED BY: JAMES HORN, P.E. (0000000000)  
DATE: 02/22/19  
PROJECT NO.: 096495003  
DWG. NAME: 096495003\_EC



#### KEY MAP

#### LEGEND

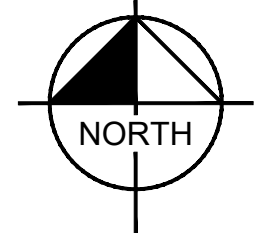
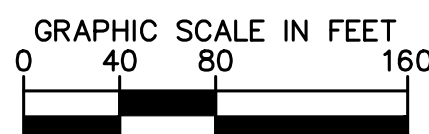
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COLORADO SPRINGS, CO 80903 (719) 453-0180



| DESIGNED                | DRAWN | CHECKED |
|-------------------------|-------|---------|
| EJG                     | KRK   | EJG     |
| SCALE (H): 1" = 80'     |       |         |
| SCALE (V):              |       |         |
| DATE: FEBRUARY 22, 2019 |       |         |
| PROJECT NO. 096495003   |       |         |
| DWG. NAME 096495003_EC  |       |         |
| SHEET NO.               |       | 221     |











Temporary and Permanent Seeding (TS/PS) EC-2

Seeding dates for the highest success probability of perennial species along the Front Range are generally in the spring from April through early May and in the fall after the first of September until the ground freezes. If the area is irrigated, seeding may occur in summer months, as well. See Table TS/PS-3 for appropriate seeding dates.

Table TS/PS-1. Minimum Drill Seeding Rates for Various Temporary Annual Grasses

| Species <sup>a</sup><br>(Common name) | Growth<br>Season <sup>b</sup> | Pounds of<br>Pure Live Seed<br>(PLS)/acre <sup>c</sup> | Planting<br>Depth<br>(inches) |
|---------------------------------------|-------------------------------|--|-------------------------------|
| 1. Oats                               | Cool                          | 35 - 50  | 1 - 2                         |
| 2. Spring wheat                       | Cool                          | 25 - 35  | 1 - 2                         |
| 3. Spring barley                      | Cool                          | 25 - 35  | 1 - 2                         |
| 4. Annual ryegrass                    | Cool                          | 10 - 15  | ½                             |
| 5. Millet                             | Warm                          | 3 - 15   | ½ - ¾                         |
| 6. Sudangrass                         | Warm                          | 5-10   | ½ - ¾                         |
| 7. Sorghum                            | Warm                          | 5-10   | ½ - ¾                         |
| 8. Winter wheat                       | Cool                          | 20-35  | 1 - 2                         |
| 9. Winter barley                      | Cool                          | 20-35  | 1 - 2                         |
| 10. Winter rye                        | Cool                          | 20-35  | 1 - 2                         |
| 11. Triticale                         | Cool                          | 25-40  | 1 - 2                         |

<sup>a</sup> Successful seeding of annual grass resulting in adequate plant growth will usually produce enough dead-plant residue to provide protection from wind and water erosion for an additional year. This assumes that the cover is not disturbed or mowed closer than 8 inches.

Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1 or where access limitations exist. When hydraulic seeding is used, hydraulic mulching should be applied as a separate operation, when practical, to prevent the seeds from being encapsulated in the mulch.

<sup>b</sup> See Table TS/PS-3 for seeding dates. Irrigation, if consistently applied, may extend the use of cool season species during the summer months.

<sup>c</sup> Seeding rates should be doubled if seed is broadcast, or increased by 50 percent if done using a Brillion Drill or by hydraulic seeding.

EC-2 Temporary and Permanent Seeding (TS/PS)

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses

| Common <sup>a</sup><br>Name                 | Botanical<br>Name                    | Growth<br>Season <sup>b</sup> | Growth<br>Form | Seeds/<br>Pound | Pounds of<br>PLS/acre |
|---|--------------------------------------|-------------------------------|----------------|-----------------|-----------------------|
| <b>Alkali Soil Seed Mix</b>                 |                                      |                               |                |                 |                       |
| Alkali warden                               | <i>Sporobolus airoides</i>           | Cool                          | Bunch          | 1,750,000       | 0.25                  |
| Basin wildrye                               | <i>Elymus cinereus</i>               | Cool                          | Bunch          | 165,000         | 2.5                   |
| Sodar streambank wheatgrass                 | <i>Agropyron riparium 'Sodar'</i>    | Cool                          | Sod            | 170,000         | 2.5                   |
| Jose tall wheatgrass                        | <i>Agropyron elongatum 'Jose'</i>    | Cool                          | Bunch          | 79,000          | 7.0                   |
| Arriba western wheatgrass                   | <i>Agropyron smithii 'Arriba'</i>    | Cool                          | Sod            | 110,000         | 5.5                   |
| <b>Total</b>                                |                                      |                               |                |                 | <b>17.75</b>          |
| <b>Fertile Loamy Soil Seed Mix</b>          |                                      |                               |                |                 |                       |
| Ephraim crested wheatgrass                  | <i>Agropyron cristatum 'Ephraim'</i> | Cool                          | Sod            | 175,000         | 2.0                   |
| Dural hard fescue                           | <i>Festuca ovina 'duriuscula'</i>    | Cool                          | Bunch          | 565,000         | 1.0                   |
| Lincoln smooth brome                        | <i>Bromus inermis leys 'Lincoln'</i> | Cool                          | Sod            | 130,000         | 3.0                   |
| Sodar streambank wheatgrass                 | <i>Agropyron riparium 'Sodar'</i>    | Cool                          | Sod            | 170,000         | 2.5                   |
| Arriba western wheatgrass                   | <i>Agropyron smithii 'Arriba'</i>    | Cool                          | Sod            | 110,000         | 7.0                   |
| <b>Total</b>                                |                                      |                               |                |                 | <b>15.5</b>           |
| <b>High Water Table Soil Seed Mix</b>       |                                      |                               |                |                 |                       |
| Meadow foxtail                              | <i>Alopecurus pratensis</i>          | Cool                          | Sod            | 900,000         | 0.5                   |
| Redtop                                      | <i>Agrostis alba</i>                 | Warm                          | Open sod       | 5,000,000       | 0.25                  |
| Reed canarygrass                            | <i>Phalaris arundinacea</i>          | Cool                          | Sod            | 68,000          | 0.5                   |
| Lincoln smooth brome                        | <i>Bromus inermis leys 'Lincoln'</i> | Cool                          | Sod            | 130,000         | 3.0                   |
| Pathfinder switchgrass                      | <i>Panicum virgatum 'Pathfinder'</i> | Warm                          | Sod            | 389,000         | 1.0                   |
| Alkar tall wheatgrass                       | <i>Agropyron elongatum 'Alkar'</i>   | Cool                          | Bunch          | 79,000          | 5.5                   |
| <b>Total</b>                                |                                      |                               |                |                 | <b>10.75</b>          |
| <b>Transition Turf Seed Mix<sup>a</sup></b> |                                      |                               |                |                 |                       |
| Ruebens Canadian bluegrass                  | <i>Poa compressa 'Ruebens'</i>       | Cool                          | Sod            | 2,500,000       | 0.5                   |
| Dural hard fescue                           | <i>Festuca ovina 'duriuscula'</i>    | Cool                          | Bunch          | 565,000         | 1.0                   |
| Citation perennial ryegrass                 | <i>Lolium perenne 'Citation'</i>     | Cool                          | Sod            | 247,000         | 3.0                   |
| Lincoln smooth brome                        | <i>Bromus inermis leys 'Lincoln'</i> | Cool                          | Sod            | 130,000         | 3.0                   |
| <b>Total</b>                                |                                      |                               |                |                 | <b>7.5</b>            |

Temporary and Permanent Seeding (TS/PS) EC-2

Table TS/PS-2. Minimum Drill Seeding Rates for Perennial Grasses (cont.)

| Common<br>Name                             | Botanical<br>Name                       | Growth<br>Season <sup>a</sup> | Growth<br>Form         | Seeds/<br>Pound | Pounds of<br>PLS/acre |
|--|---|-------------------------------|------------------------|-----------------|-----------------------|
| <b>Sandy Soil Seed Mix</b>                 |   |                               |                        |                 |                       |
| Blue grama                                 | <i>Bouteloua gracilis</i>               | Warm                          | Sod-forming bunchgrass | 825,000         | 0.5                   |
| Camper little bluestem                     | <i>Schizachyrium scoparium 'Camper'</i> | Warm                          | Bunch                  | 240,000         | 1.0                   |
| Prairie sandreed                           | <i>Calamovilfa longifolia</i>           | Warm                          | Open sod               | 274,000         | 1.0                   |
| Sand dropseed                              | <i>Sporobolus cryptandrus</i>           | Cool                          | Bunch                  | 5,298,000       | 0.25                  |
| Vaughn sideots grama                       | <i>Bouteloua curtipendula 'Vaughn'</i>  | Warm                          | Sod                    | 191,000         | 2.0                   |
| Arriba western wheatgrass                  | <i>Agropyron smithii 'Arriba'</i>       | Cool                          | Sod                    | 110,000         | 5.5                   |
| <b>Total</b>                               |   |                               |                        |                 | <b>10.25</b>          |
| <b>Heavy Clay, Rocky Foothill Seed Mix</b> |   |                               |                        |                 |                       |
| Ephraim crested wheatgrass <sup>a</sup>    | <i>Agropyron cristatum 'Ephraim'</i>    | Cool                          | Sod                    | 175,000         | 1.5                   |
| Oshe Intermediate wheatgrass               | <i>Agropyron intermedium 'Oshe'</i>     | Cool                          | Sod                    | 115,000         | 5.5                   |
| Vaughn sideots grama <sup>a</sup>          | <i>Bouteloua curtipendula 'Vaughn'</i>  | Warm                          | Sod                    | 191,000         | 2.0                   |
| Lincoln smooth brome                       | <i>Bromus inermis leys 'Lincoln'</i>    | Cool                          | Sod                    | 130,000         | 3.0                   |
| Arriba western wheatgrass                  | <i>Agropyron smithii 'Arriba'</i>       | Cool                          | Sod                    | 110,000         | 5.5                   |
| <b>Total</b>                               |   |                               |                        |                 | <b>17.5</b>           |

<sup>a</sup> All of the above seeding mixes and rates are based on drill seeding followed by crimped straw mulch. These rates should be doubled if seed is broadcast and should be increased by 50 percent if the seeding is done using a Brillion Drill or is applied through hydraulic seeding. Hydraulic seeding may be substituted for drilling only where slopes are steeper than 3:1. If hydraulic seeding is used, hydraulic mulching should be done as a separate operation.

<sup>b</sup> See Table TS/PS-3 for seeding dates.

<sup>c</sup> If site is to be irrigated, the transition turf seed rates should be doubled.

<sup>d</sup> Crested wheatgrass should not be used on slopes steeper than 6H to 1V.

<sup>e</sup> Can substitute 0.5 lbs PLS of blue grama for the 2.0 lbs PLS of Vaughn sideots grama.

EC-2 Temporary and Permanent Seeding (TS/PS)

Table TS/PS-3. Seeding Dates for Annual and Perennial Grasses

| Seeding Dates            | Annual Grasses<br>(Numbers in table reference species in Table TS/PS-1) |           | Perennial Grasses |      |
|--------------------------|---|-----------|-------------------|------|
|                          | Warm  | Cool      | Warm              | Cool |
| January 1-March 15       |   |           | ✓                 | ✓    |
| March 16-April 30        | 4   | 1,2,3     | ✓                 | ✓    |
| May 1-May 15             | 4   |           | ✓                 |      |
| May 16-June 30           | 4,5,6,7   |           |                   |      |
| July 1-July 15           | 5,6,7   |           |                   |      |
| July 16-August 31        |   |           |                   |      |
| September 1-September 30 |   | 8,9,10,11 |                   |      |
| October 1-December 31    |   |           | ✓                 | ✓    |

Mulch

Cover seeded areas with mulch or an appropriate rolled erosion control product to promote establishment of vegetation. Anchor mulch by crimping, netting or use of a non-toxic tackifier. See the Mulching BMP Fact Sheet for additional guidance.

Maintenance and Removal

Monitor and observe seeded areas to identify areas of poor growth or areas that fail to germinate. Reseed and mulch these areas, as needed.

An area that has been permanently seeded should have a good stand of vegetation within one growing season if irrigated and within three growing seasons without irrigation in Colorado. Reseed portions of the site that fail to germinate or remain bare after the first growing season.

Seeded areas may require irrigation, particularly during extended dry periods. Targeted weed control may also be necessary.

Protect seeded areas from construction equipment and vehicle access.

TEMPORARY SEEDING TO BE PER THE UDFCD STANDARD DETAILS SHOWN HERON, PERMANENT SEEDING TO BE COUNTY AND OWNER APPROVED NRCS MIXTURE

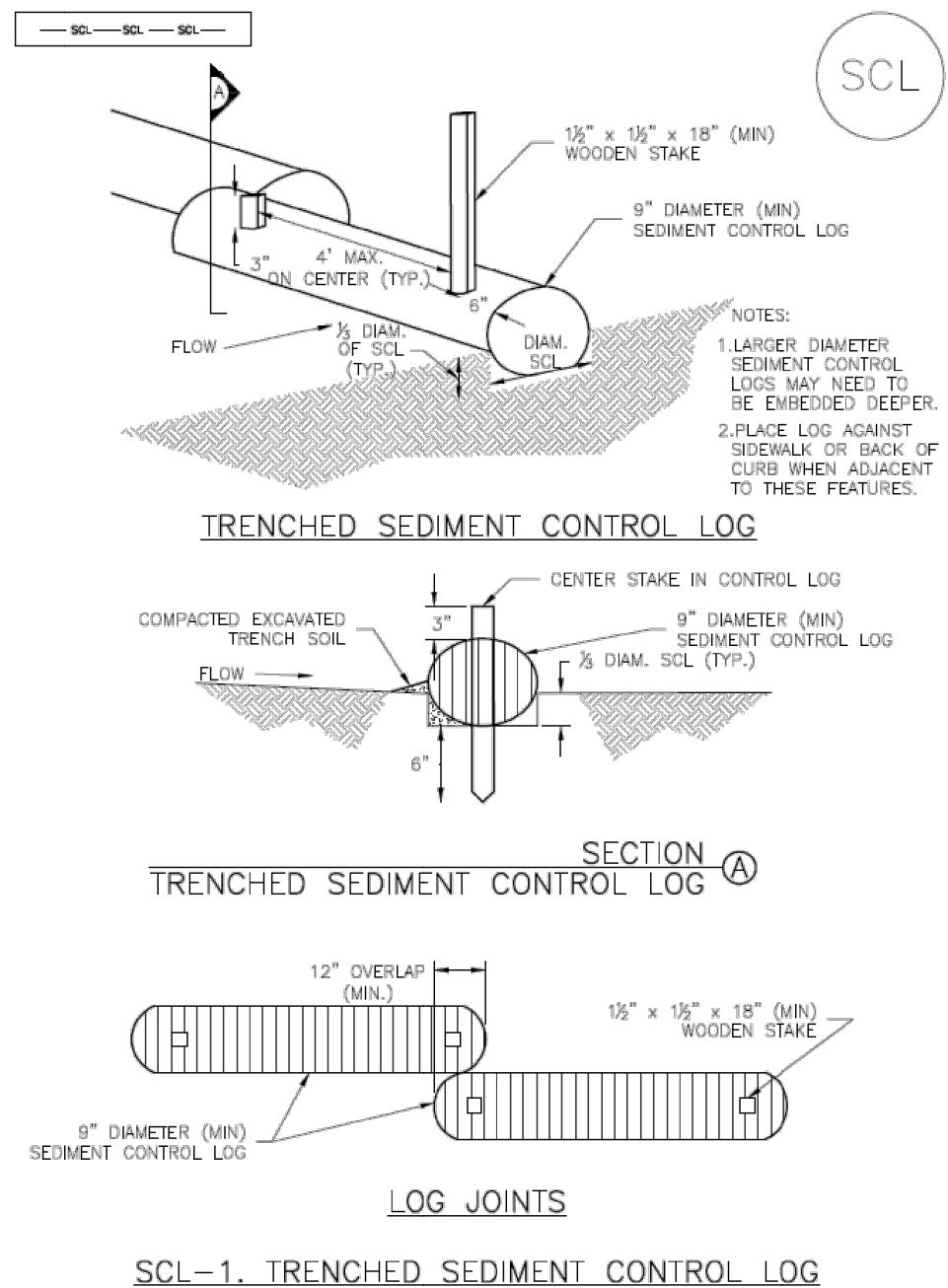
June 2012 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 TS/PS-3

TS/PS-4 June 2012 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3

June 2012 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 TS/PS-5

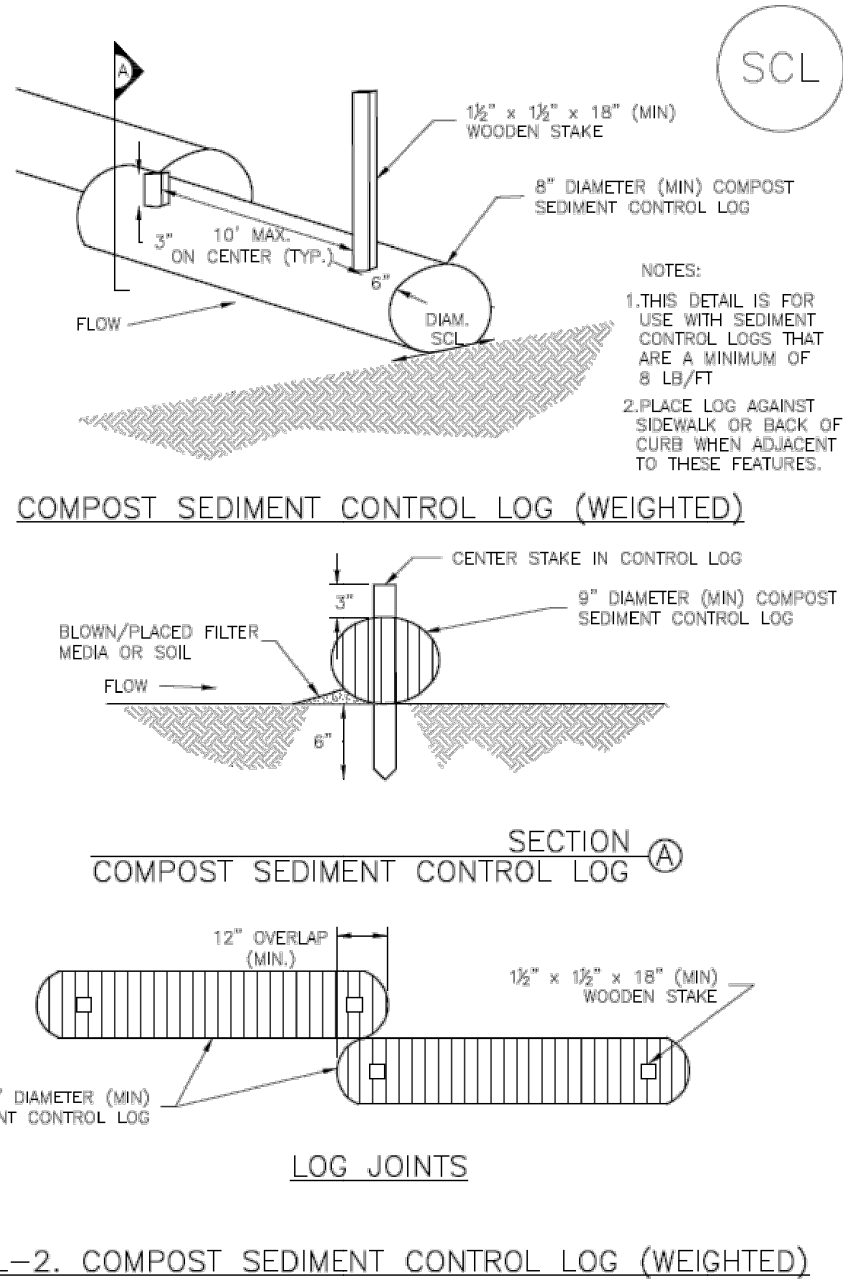
TS/PS-6 June 2012 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3

Sediment Control Log (SCL) SC-2



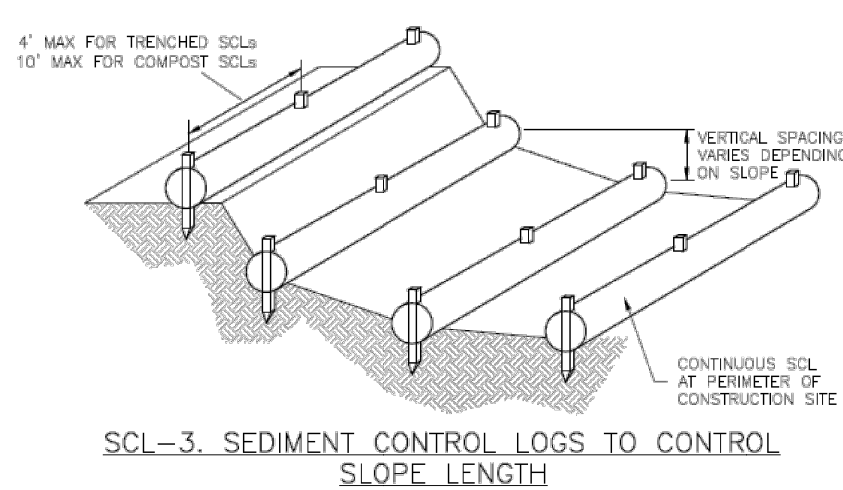
November 2015 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 SCL-3

SC-2 Sediment Control Log (SCL)



SCL-4 November 2015 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3

Sediment Control Log (SCL) SC-2



November 2015 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3 SCL-5

SC-2 Sediment Control Log (SCL)

**SEDIMENT CONTROL LOG INSTALLATION NOTES**

- SEE PLAN VIEW FOR LOCATION AND LENGTH OF SEDIMENT CONTROL LOGS.
- SEDIMENT CONTROL LOGS THAT ACT AS A PERIMETER CONTROL SHALL BE INSTALLED PRIOR TO ANY UPGRADIENT LAND-DISTURBING ACTIVITIES.
- SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELSIOR OR COCONUT FIBER, AND SHALL BE FREE OF ANY NOXIOUS WEED SEEDS OR DEFECTS INCLUDING RIPS, HOLES AND OBVIOUS WEAR.
- SEDIMENT CONTROL LOGS MAY BE USED AS SMALL CHECK DAMS IN DITCHES AND SWALES. HOWEVER, THEY SHOULD NOT BE USED IN PERENNIAL STREAMS.
- IT IS RECOMMENDED THAT SEDIMENT CONTROL LOGS BE TRENCHED INTO THE GROUND TO A DEPTH OF APPROXIMATELY 1/2 OF THE DIAMETER OF THE LOG. IF TRENCHING TO THIS DEPTH IS NOT FEASIBLE AND/OR DESIRABLE (SHORT TERM INSTALLATION WITH DESIRE NOT TO DAMAGE LANDSCAPE) A LESSER TRENCHING DEPTH MAY BE ACCEPTABLE WITH MORE ROBUST STAKING. COMPOST LOGS THAT ARE 8 LB/FT DO NOT NEED TO BE TRENCHED.
- THE UPWELL SIDE OF THE SEDIMENT CONTROL LOG SHALL BE BACKFILLED WITH SOIL OR FILTER MATERIAL THAT IS FREE OF ROCKS AND DEBRIS. THE SOIL SHALL BE TIGHTLY COMPACTED INTO THE SHAPE OF A RIGHT TRIANGLE USING A SHOVEL OR WEIGHTED LAWN ROLLER OR BLOWN IN PLACE.
- FOLLOW MANUFACTURERS' GUIDANCE FOR STAKING. IF MANUFACTURERS' INSTRUCTIONS DO NOT SPECIFY SPACING, STAKES SHALL BE PLACED ON 4' CENTERS AND EMBEDDED A MINIMUM OF 6" INTO THE GROUND. 3" OF THE STAKE SHALL PROTRUDE FROM THE TOP OF THE LOG. STAKES THAT ARE BROKEN PRIOR TO INSTALLATION SHALL BE REPLACED. COMPOST LOGS SHOULD BE STAKED 10' ON CENTER.

**SEDIMENT CONTROL LOG 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 SEDIMENT CONTROL LOG 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 SEDIMENT CONTROL LOG.
- SEDIMENT CONTROL LOG SHALL BE REMOVED AT THE END OF CONSTRUCTION. COMPOST FROM COMPOST LOGS MAY BE LEFT IN PLACE AS LONG AS BAGS ARE REMOVED AND THE AREA SEEDED. IF DISTURBED AREAS EXIST AFTER REMOVAL, THEY 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, JEFFERSON COUNTY, COLORADO, DOUGLAS COUNTY, COLORADO, AND CITY OF ARIZONA, COLORADO, NOT AVAILABLE IN ARIZONA)

**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.

SCL-6 November 2015 Urban Drainage and Flood Control District  
Urban Storm Drainage Criteria Manual Volume 3

PERMANENT SEEDING MIX

| SPECIES               | LBS./ACRE |
|-----------------------|-----------|
| SANDBERG BLUEGRASS    | 0.25      |
| STREAMBANK WHEATGRASS | 1.25      |
| CRESTED WHEATGRASS    | 2.00      |
| BLUE GRAMA            | 0.25      |
| BUFFALOGRASS          | 2.50      |
| SIDEOATS GRAMA        | 1.25      |
| GREEN NEEDLEGRASS     | 1.25      |
| SHEEP FESCUE          | 1.25      |
| TOTAL                 | 10        |

PALMER SOLAR  
GESC DETAILS

EL PASO COUNTY, CO

Kimley»Horn

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2 N. NEVADA AVENUE, SUITE 300  
COLORADO SPRINGS, CO 80903 (719) 453-0180

DESIGNED  
EJG

DRAWN  
KRK

CHECKED  
EJG

SCALE (H):  
SCALE (V):

DATE:  
FEBRUARY 22, 2019

PROJECT NO.  
096495003

DWG. NAME  
096495003\_EC\_DT

SHEET NO.  
224


COLORADO REGISTERED  
ENGINEER  
49487  
Kimley-Horn  
PROFESSIONAL ENGINEER

GRADING AND EROSION CONTROL PLAN-PLAN SUBMITTAL



**811** Know what's below.  
Call before you dig



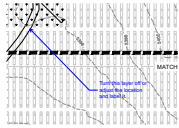
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| <h1 style="margin: 0;">Kimley»Horn</h1>  |                              |              |  |
| <p>© 2019 KIMLEY-HORN AND ASSOCIATES, INC.<br/>         2 N. NEVADA AVENUE, SUITE 300<br/>         COLORADO SPRINGS, CO 80903 (719) 453-0180</p> |                              |              |  |
|   | DESIGNED<br>EJG              | DRAWN<br>KRK | CHECKED<br>EJG                                   |
|  | SCALE (H):<br>SCALE (V):     |              |  |
|  | DATE:<br>FEBRUARY 22, 2019   |              |  |
|  | PROJECT NO.<br>096495003     |              |  |
|  | DWG. NAME<br>096495003_EC_DT |              |  |
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GRADING AND EROSION CONTROL PLAN—PLAN SUBMITTAL

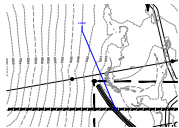


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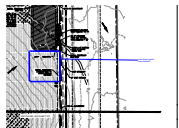


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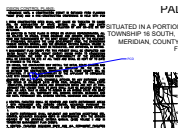


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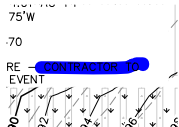


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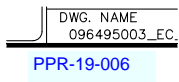
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