

BASIC GRADING, EROSION AND STORMWATER QUALITY REQUIREMENTS

AND GENERAL PROHIBITIONS:

- "INFORMATION TAKEN FROM THE EL PASO COUNTY DRAINAGE CRITERIA MANUAL VOLUME 2, HEREIN REFERRED TO AS THE "MANUAL."
- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS.
 - CONCRETE WASH WATER SHALL NOT BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM FACILITIES.
 - 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. BMP'S MAY BE REQUIRED BY COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES (E.G., ESTIMATED TIME OF EXPOSURE, SEASON OF THE YEAR, ETC.).
 - VEHICLE TRACKING OF SOILS OFF-SITE SHALL BE MINIMIZED.
 - ALL WASTES COMPOSED OF BUILDING MATERIALS MUST BE REMOVED FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
 - 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 COUNTY ENGINEER. 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.
 - ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMP'S IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE MANUAL AND IN ACCORDANCE WITH THE EROSION AND STORMWATER QUALITY CONTROL PLAN APPROVED BY THE COUNTY OF EL PASO, IF REQUIRED.
 - ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMP'S AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS AND THE MANUAL AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION. THE INSTALLATION OF THE FIRST LEVEL OF TEMPORARY EROSION CONTROL FACILITIES AND BMP'S SHALL BE INSTALLED AND INSPECTED PRIOR TO ANY EARTH DISTURBANCE OPERATIONS TAKING PLACE.
 - ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION.
 - ALL EARTH DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED IN SUCH A MANNER SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME.
 - ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
 - SUSPENDED SEDIMENT CAUSED BY ACCELERATED SOIL EROSION SHALL BE MINIMIZED IN RUNOFF WATER BEFORE IT LEAVES THE SITE OF THE EARTH DISTURBANCE.
 - 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.
 - TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO THE STANDARDS AND SPECIFICATIONS PRESCRIBED IN THE MANUAL, AND IN ACCORDANCE WITH THE PERMANENT EROSION CONTROL PLAN APPROVED BY THE COUNTY OF EL PASO, IF REQUIRED.
 - SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN TWENTY-ONE (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 INITIAL 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 BMP'S SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED.
 - NO PERSON SHALL CAUSE, PERMIT, OR CONTRIBUTE TO THE DISCHARGE INTO THE MUNICIPAL SEPARATE STORM SEWER POLLUTANTS THAT COULD CAUSE THE COUNTY OF EL PASO TO BE IN VIOLATION OF ITS COLORADO DISCHARGE PERMIT SYSTEM MUNICIPAL STORMWATER DISCHARGE PERMIT.
 - 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.
 - NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER, INCLUDING THE TEMPORARY OR PERMANENT RAMMING WITH MATERIALS FOR VEHICLE ACCESS.
 - INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), REGULATIONS PROMULGATED, CERTIFICATIONS ISSUED, IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE MANUAL. IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND WATER QUALITY CONTROL LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL OR STATE AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
 - THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM 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. MATERIALS SHALL NOT BE STORED IN A LOCATION WHERE THEY MAY BE CARRIED BY STORMWATER RUNOFF INTO A STATE WATER AT ANY TIME.
 - SPILL PREVENTION AND CONTAINMENT MEASURES SHALL BE USED AT STORAGE, AND EQUIPMENT FUELING AND SERVICING AREAS TO PREVENT THE POLLUTION OF ANY STATE WATERS, INCLUDING WETLANDS. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY, OR CONTAINED UNTIL APPROPRIATE CLEANUP METHODS CAN BE EMPLOYED. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE FOLLOWED, ALONG WITH PROPER DISPOSAL METHODS.

CONSTRUCTION SCHEDULE NOTES:

- THE LOCATION OF SOIL STOCKPILES(S), STAGING AREA, AND TEMPORARY DISPOSAL AREA SHALL BE DETERMINED BY THE CONTRACTOR. APPROPRIATE EROSION CONTROL BMP MEASURES SHALL BE FOLLOWED FOR EACH.
- THIS PROJECT ENCOMPASSES CONSTRUCTION OF AN IMPROVED GRAVEL ROAD SURFACE, ROADWIDE DRAINAGE SWALES AND DRY UTILITIES AND IS NOT ANTICIPATED TO BE PHASED.
- THE PROJECT CONSTRUCTION IS ANTICIPATED TO OCCUR AS FOLLOWS:
 - START IN FALL 2020 OR AT TIME OF PLAN APPROVAL, WHICHEVER IS FIRST WITH COMPLETION IN FALL OF 2021 OR 1 YEAR AFTER START OF CONSTRUCTION.
- THE SITE WILL BE CONSIDERED AT FINAL STABILIZATION WHEN THE RE-VEGETATION OF THE DISTURBED AREAS HAS ACHIEVED A MINIMUM COVER OF 70% OF PRE-DISTURBANCE AREA DENSITY.
- EXISTING SITE VEGETATION INCLUDES NATIVE GRASSES AND TREES WITH A TOTAL COVERAGE RATE OF APPROXIMATELY 80%.
- REFER TO THE SWMP REPORT FOR INFORMATION REGARDING THE MAINTENANCE OF THE FACILITIES DURING AND AFTER THE CONSTRUCTION PHASE OF THE PROJECT.
- THIS PROJECT DOES NOT RELY ON USE OF ANY EROSION CONTROL MEASURES OWNED OR OPERATED ANY OTHER ENTITY.
- PORTABLE TOILET/S ARE TO BE LOCATED A MINIMUM OF 10 FEET AWAY FROM STORMWATER INLETS AND 50 FEET AWAY FROM ANY WATERS OF THE STATE. STAGING OF THE PORTABLE TOILET TO PREVENT TIPPING AND WEEKLY CLEANING IS REQUIRED. THE TOILETS SHALL BE INSPECTED DAILY FOR POSSIBLE SPILLS.

SEEDING GUIDELINES

1. SEEDBED PREPARATION

- THE SEEDBED SHOULD BE WELL-SETTLED AND FIRM, BUT FRIABLE ENOUGH THAT THE SEED CAN BE PLACED AT THE SPECIFIED DEPTHS. COMPETITIVE STANDS OF WEEDS THAT ARE PRESENT BEFORE SEEDING MUST BE CONTROLLED BY SHALLOW TILLAGE OR BY APPLICATION OF HERBICIDES. SOILS THAT HAVE BEEN OVER-COMPACTED BY TRAFFIC OR EQUIPMENT, ESPECIALLY WHEN WET, SHOULD BE TILLED TO BREAK UP ROOTING-RESTRICTIVE LAYERS, THEN HARROWED, ROLLED, OR PACKED TO PREPARE THE REQUIRED FIRM SEEDBED.

2. FERTILIZER

- FERTILIZER SHOULD BE APPLIED AT A RATE OF 50 POUNDS OF AVAILABLE NITROGEN PER ACRE AND 40 POUNDS OF AVAILABLE PHOSPHATE PER ACRE. THE TIME OF APPLICATION SHOULD BE IMMEDIATELY PRIOR TO SEEDING, AT THE TIME OF SEEDING, OR IMMEDIATELY FOLLOWING SEEDING, DEPENDING ON THE KIND OF FERTILIZER AND TYPE OF EQUIPMENT USED.

3. SEEDING

- SEED SHOULD BE PLANTED WITH A GRASS DRILL ON ALL SLOPES OF 3:30 (2:1) OR FLATTER. SEED MAY BE BROADCAST BY HAND, BY MECHANICAL SPREADER, OR BY HYDRAULIC EQUIPMENT ON AREAS THAT ARE SMALL, TOO STEEP, OR NOT ACCESSIBLE FOR SEED DRILL OPERATIONS. SEED PLANTED WITH A DRILL SHOULD BE COVERED WITH SOIL TO A DEPTH OF 1/4 TO 3/4 INCH. SEED PLANTED BY THE BROADCAST METHOD SHALL BE INCORPORATED INTO THE SOIL SURFACE, NOT TO EXCEED A DEPTH OF 3/4 INCH, BY RAKING, HARROWING, OR OTHER PROVEN METHOD.

- THE TIME OF SEEDING IS FROM OCTOBER 15TH - MAY 31ST. SEED PLANTED IN THE LATE FALL WILL REMAIN DORMANT UNTIL SPRING, WHEN IT WILL GERMINATE.

4. MULCHING

- SEEDED AREAS SHOULD BE MULCHED TO CONSERVE MOISTURE; PREVENT SURFACE COMPACTION OR CRUSTING; REDUCE RUNOFF AND EROSION; CONTROL INSECTS; AND HELP ESTABLISH PLANT COVER.
- NATIVE HAY OR STRAW SHOULD BE APPLIED AT A RATE OF 4,000 POUNDS PER ACRE AND CRIMPED INTO THE GROUND. ON SLOPES GREATER THAN 3:1, AN AGRONOMY BLANKET SHOULD BE USED.

5. SUPPLEMENTAL WATER

- IN LOW RAINFALL AREAS, WHERE WATER IS AVAILABLE AND WHERE RAPID ESTABLISHMENT IS NEEDED, IRRIGATION OF NEW SEEDING SHOULD BE PERFORMED DURING THE FIRST GROWING SEASON. WATER SHOULD BE APPLIED AT APPROXIMATELY ONE WEEK INTERVALS AT A RATE OF 3/4 TO 1 INCH PER APPLICATION, WHEN RAINFALL IS DEFICIENT FOR PLANT DEVELOPMENT.

EROSION PROTECTION & REVEGETATION REQUIREMENTS

"PER U.S.D.A. SOIL CONSERVATION SERVICE GUIDELINES"

1. PRACTICE NO. & NAME: 342 - CRITICAL AREA TREATMENT RANGE SITE: SANDY Foothills
2. PLANNED SEEDING PREP:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX
3. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX

4. FERTILIZER:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX
5. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX

6. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX
7. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX

8. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX
9. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX

10. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX
11. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX

12. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX
13. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX

14. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX
15. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX

16. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX
17. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX

18. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX
19. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX

20. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX
21. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX

22. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX
23. SEEDING:
 - A. METHOD: DRILL
 - B. DATES OCT. 15-MAY 31: INTERSEED
 - C. CLEAN TILLED: XX

LEGEND

- EXISTING
PROPOSED
CURB AND GUTTER
BOUNDARY
RIGHT-OF-WAY
LOT LINE
(E) CONTOUR, INDEX
(P) CONTOUR, INDEX
(E) CONTOUR
(E) STORM SEWER
(P) STORM SEWER
SILT FENCE
(E) SOIL AREA BOUNDARIES
(E) SURFACE DRAINAGE FLOW ARROW

VEHICLE TRACKING CONTROL

CONCRETE WASHOUT AREA

STABILIZED STAGING AREA

STOCKPILE AREA

STRAW BALE BARRIER

LIMITS OF DISTURBANCE/CONSTRUCTION

DRAINAGE SWALE

PORTABLE TOILET MANAGEMENT

CUT/FILL LINE

- (E)
(P)
C&G
- 6820
- 6820
- SF
- SF

- VTC
- CWA
- SSA
- SP1
- SBB
- DS2
- PTM

- SSA
- SP1
- SBB
- DS2
- PTM

- SBB
- DS2
- PTM

- DS2
- PTM

- CUT
- FILL

SOILS LEGEND

- MAP UNIT NAME MAP UNIT SYMBOL
- BRUSSETT LOAM, 1 TO 3 PERCENT SLOPES 14
- BRUSSETT LOAM, 3 TO 5 PERCENT SLOPES 15
- PEYTON-PRING COMPLEX, 3 TO 8 PERCENT SLOPES 68
- PEYTON-PRING COMPLEX, 8 TO 15 PERCENT SLOPES 69

SITE NOTES

1. SITE VEGETATION CONSISTS OF PRIMARILY NATIVE GRASSES & WEEDS. THERE ARE SOME SCATTERED TREES ACROSS MOST OF THE SITE WITH TIGHTER CLUSTERS OF MORE MATURE TREES ALONG THE WESTERLY PROPERTY BOUNDARY. CONSTRUCTION AT THIS TIME IS LIMITED TO INSTALLATION OF A GRAVEL ROAD EXTENSION FOR RED BARN ROAD WHICH PROVIDES ACCESS TO THE LOTS IN THIS SUBDIVISION. THERE ARE APPROXIMATELY ONE DOZEN YOUNGER TREES ALONG THE PROPOSED GRAVEL ROAD ALIGNMENT.

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- LOT 267 PEYTON PINES FILING NO 4
- LOT 266 PEYTON PINES FILING NO 4
- LOT 265 PEYTON PINES FILING NO 4

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- LOT 265 PEYTON PINES FILING NO 4

S 88°50'21" E 1281.66' (M)

N 88°59'12" W 1286.16' (P)

N 88°59'03" W 1286.06' (M)

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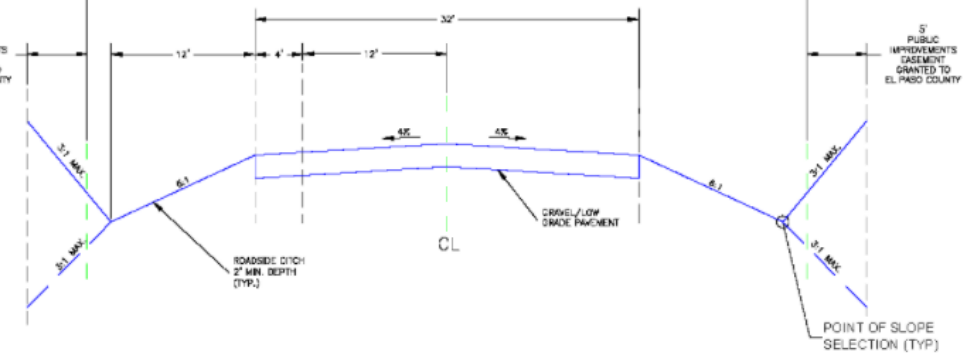
N 88°59'12" W 1286.16' (P)

N 88°59'03" W 1286.06' (M)

LOT 259 PEYTON PINES FILING NO 4

LOT 260 PEYTON PINES FILING NO 4

LOT 261 PEYTON PINES FILING NO 4



Roadway Design Parameters
Design Speed: 50 mph
Posted Speed: 40 mph
Maximum ADT: 199
Design Vehicle: WB-50

SCALE: NOT TO SCALE

9/16/10 Rural Gravel Local Roadway

André P. Brackin Standard Cross Section

12/8/15 SD 2-10

SCALE: 1" = 100'

PCD FILE NOs: SP-20-019

DESIGNED BY: DLM DRAWN BY: DBM

SCALE: 1" = 100' DATE: 11/11/20

JOB NUMBER SHEET

18-158 2 OF 3

GRADING & EROSION CONTROL PLAN

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DAVID L. MIJARES, LICENSED PROFESSIONAL ENGINEER #40510

04/8/21
DATE



PINIE VIEW ESTATES

GRADING & EROSION CONTROL PLAN

