

DEVELOPER:
THE LOOKOUT DEVELOPMENT GROUP, LP
CONTACT PERSON: MIKE SIEFERT
1789 S. BAGDAD ROAD, SUITE 104
LEANDER, TX 78641
TEL: (512) 260-2066

LEGEND

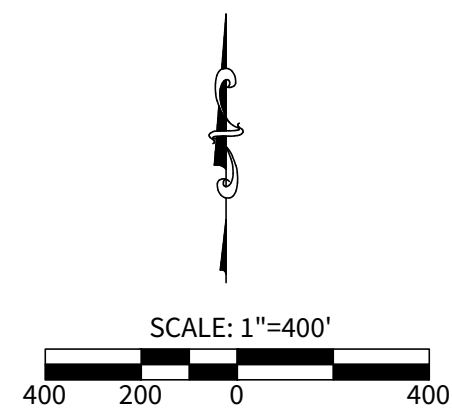
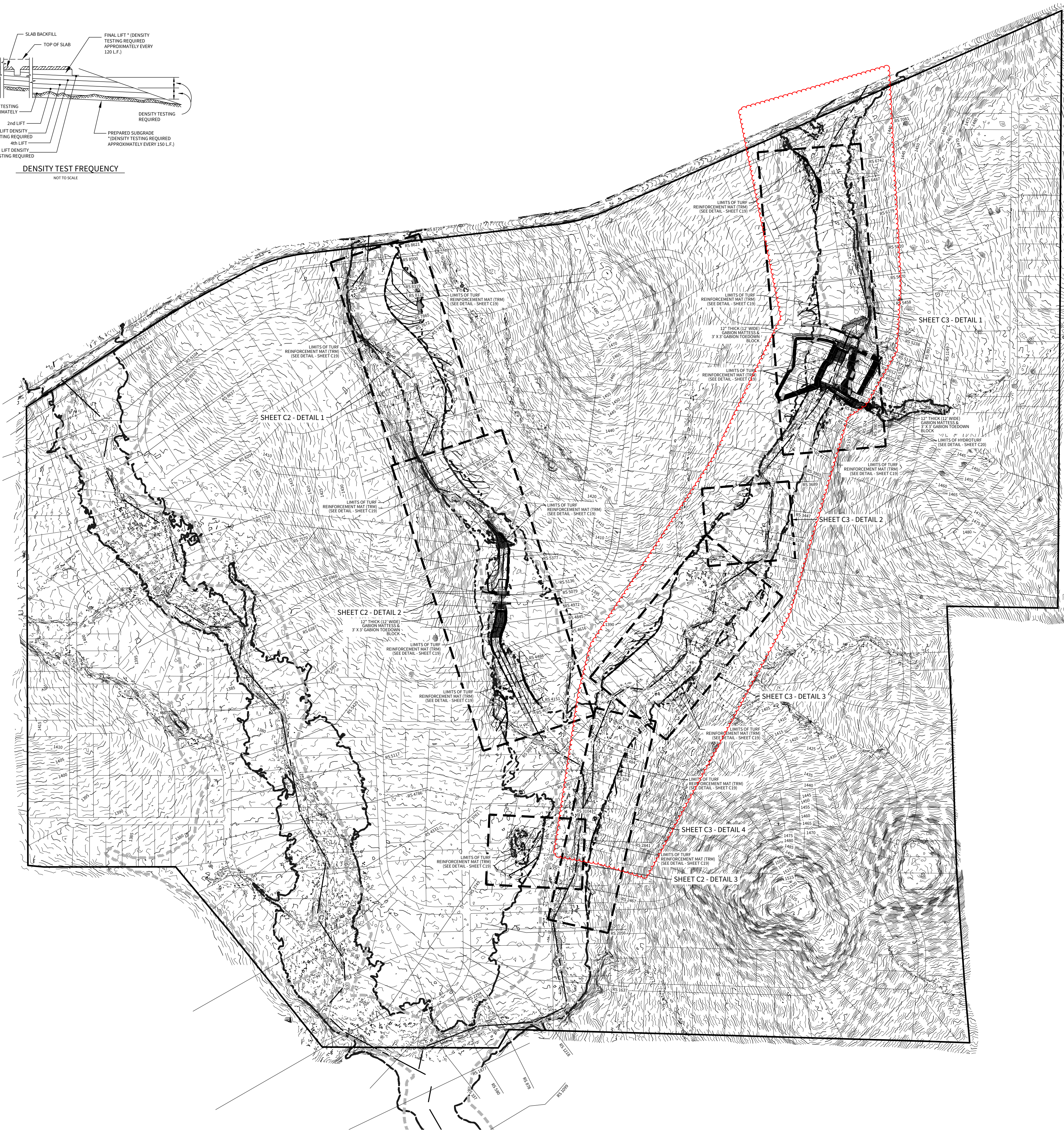
- PROPOSED CONTOUR
- EXISTING CONTOUR
- PROPERTY BOUNDARY
- DETAIL EXTENTS
- HEC-RAS CROSS-SECTIONS
- TURF REINFORCEMENT MAT (SEE DETAIL - SHEET C19)
- GABION MATTRESS (SEE DETAIL - SHEET C20)
- EFFECTIVE 100 YR FLOODPLAIN
- CORRECTED EFFECTIVE 100 YR FLOODPLAIN
- PROPOSED 100 YR FLOODPLAIN
- STREAM CENTERLINE
- LIMITS OF GRADING

NOTES:

- UPON COMPLETION OF CLOMR GRADING ENGINEER TO REVIEW COMPETENCY OF BEDROCK WHERE PROJECT CONDITION VELOCITIES EXCEED EXISTING CONDITION VELOCITIES AND/OR WHERE VELOCITIES EXCEED 6 FPS AND REASSESS SITE FOR EROSION CONTROL MEASURES.
- FILL SITES, UPON WHICH STRUCTURES WILL BE CONSTRUCTED OR PLACED MUST BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DENSITY ATTAINABLE WITH THE STANDARD PROCTOR TEST METHOD OR AN ACCEPTABLE EQUIVALENT METHOD.
- FILL SHALL BE COMPOSED OF CLEAN GRANULAR OR EARTHEN MATERIAL.

GENERAL SPECIFICATIONS FOR SITE PREPARATION

- GENERAL DESCRIPTION**
THIS FILL SHALL CONSIST OF ALL CLEARING AND GRUBBING, DEMOLITION, PREPARATION OF LAND TO BE FILLED, FILLING OF THE LAND, SPREADING, COMPACTION TESTING AND INSPECTION OF THE FILL, AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING OF THE CUT AND FILL AREAS TO CONFORM WITH THE LINES, GRADES AND SLOPES AS SHOWN ON THE APPROVED PLANS.
ALL LOT GRADING MUST MEET REQUIREMENTS OF FHWA/HUD HANDBOOK 410.3, SPECIFICATIONS FOR LAND DEVELOPMENTS ON CONTROLLED EARTHWORK, DATASHEET 79b, HUD 79b REQUIREMENTS FOR FILL MATERIAL OF 6 INCHES AND MORE WILL BE CONDUCTED. ALL CUT AREAS WILL ALSO MEET THE REQUIREMENTS FOR HUD 79b COMPACTION TESTING. IN ADDITION, ENGINEERS MUST PROVIDE VERIFICATION OF ALL AREAS WHICH DO NOT REQUIRE HUD 79b.
- CLEARING THE AREA TO BE FILLED**
ALL TIMBER, LOGS, TREES, BRUSH AND RUBBISH SHALL BE REMOVED FROM THE SITE.
- SCARPING THE AREA TO BE FILLED**
ALL ORGANIC MATTER SHALL BE REMOVED FROM THE SURFACE UPON WHICH THE FILL IS TO BE PLACED, AND THE SURFACE SHALL THEN BE DISKED OR SCARIFIED TO A MINIMUM DEPTH OF SIX INCHES (6"). ALL SURFACE RUTS OR OTHER UNEVEN FEATURES WILL BE LEVELED PRIOR TO FIELD DENSITY TESTING.
- COMPACTING THE AREA TO BE FILLED**
FOLLOWING THE CLEARING AND DISKING OR SCARPING OF THE FILL AREA, IT SHALL BE BROADCAST UNTIL IT IS UNIFORM AND FREE FROM LARGE CLODS. THE AREA SHALL BE BROUGHT TO THE ADEQUATE MOISTURE CONTENT AND COMPACTED (TYPICALLY) TO NOT LESS THAN NINETY PERCENT (90%) OF MAXIMUM DENSITY IN ACCORDANCE WITH THE CURRENT ASTM D 1557 COMPACTION PROCEDURE, OR 90% OF MAXIMUM DENSITY IN ACCORDANCE WITH THE CURRENT TxDOT-113-E COMPACTION PROCEDURE.
- FILL MATERIALS**
THE MATERIALS USED SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES, SUCH AS TREES, BRUSH AND RUBBISH.
- DEPTH & MIXING OF FILL LAYERS**
THE SELECTED FILL MATERIAL SHALL BE PLACED IN LEVEL, UNIFORM LAYERS WHICH, WHEN COMPACTED, SHALL HAVE A DENSITY CONFORMING TO THAT STIPULATED ABOVE. EACH LAYER SHALL BE THOROUGHLY MIXED DURING THE SPREADING TO ENSURE UNIFORMITY OF MATERIAL IN EACH LAYER. COMPACTED LAYER THICKNESS MAY VARY DEPENDING ON THE COMPACTION EQUIPMENT OF DEMONSTRATED CAPABILITY. THE MAXIMUM LOOSE DEPTH FOR ANY MATERIAL SHALL NOT EXCEED TWELVE INCHES (12"). FOR TESTING REQUIREMENTS OF FILL MATERIAL, SEE DENSITY TESTING.
- ROCK**
WITH FILL MATERIAL INCLUDES ROCK, THE MAXIMUM ROCK SIZE SHALL BE AS APPROVED BY THE GEOTECHNICAL ENGINEER. NO LARGE ROCKS SHALL BE ALLOWED TO NEST AND ALL Voids MUST BE FILLED WITH SMALL STONES OR SOIL AND ADEQUATELY COMPACTED. NO LARGE ROCKS WILL BE PERMITTED WITHIN EIGHTEEN INCHES (18") OF THE FINISHED GRADE.
- COMPACTATION OF FILL LAYER**
COMPACTATION EQUIPMENT SHALL BE CAPABLE OF COMPACTING THE FILL TO THE SPECIFIED DENSITY. COMPACTATION SHALL BE ACCOMPLISHED WHILE THE FILL MATERIAL IS AT OR NEAR THE APPROPRIATE MOISTURE CONTENT. COMPACTATION OF EACH LAYER SHALL BE CONTINUOUS OVER THE ENTIRE STRUCTURAL AREA BENEATH PROPOSED STRUCTURES.
- COMPACTATION OF SLOPES**
THE FACES OF FILL SLOPES SHALL BE COMPACTED. COMPACTING OPERATIONS SHALL BE CONTINUED UNTIL THE SLOPE FACES ARE STABLE BUT NOT TOO DENSE FOR PLANTING ON THE SLOPES. COMPACTATION OF THE SLOPE FACES MAY BE DONE PROGRESSIVELY IN INCREMENTS OF THREE TO FIVE FEET (3 TO 5') IN FILL HEIGHT AS THIS FILL PROGRESSES OR AFTER THE FILL HAS BEEN BROUGHT TO ITS TOTAL HEIGHT.
- MOISTURE CONTENT**
THE FILL MATERIAL SHALL BE COMPACTED AT THE APPROPRIATE MOISTURE CONTENT SPECIFIED FOR THE SOILS BEING USED. APPROPRIATE MOISTURE CONTENT IS DEFINED, TYPICALLY, AS OPTIMUM MOISTURE CONTENT; HOWEVER, FOR EXPANSIVE SOILS IT MAY BE GREATER THAN OPTIMUM MOISTURE CONTENT, AND OTHER MOISTURE CONTENTS MAY BE NECESSARY TO PRODUCE THE DESIRED RESULTS WITH CERTAIN SOILS.
- DENSITY TESTS**
FIELD DENSITY TESTS SHALL BE PERFORMED ON LAYERS OF FILL WHEN THE FILL IS BEING PLACED AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE MAXIMUM FILL HEIGHT BETWEEN DENSITY TESTING SHALL BE EIGHTEEN INCHES (18"). ALL TESTING SHALL BE REQUESTED BY THE CONTRACTOR TO MEET THE CONTRACTOR'S CONSTRUCTION SCHEDULE. NOTIFICATION BY THE CONTRACTOR TO CONDUCT TESTS SHALL BE AT LEAST THE DAY BEFORE. THIS NOTIFICATION SHALL INCLUDE THE FILL AREA LOCATION, LOT AND BLOCK, THE LOT OR HEIGHT OF FILL AND APPROXIMATE DESIRED TIME OF TESTING. WHEN THESE TESTS INDICATE THAT THE DENSITY OF ANY LAYER OF FILL OR PORTION THEREOF IS BELOW THE REQUIRED DENSITY, THE PARTICULAR LAYER OR PORTION SHALL BE REWORKED AND RETESTED AT THE EXPENSE OF THE CONTRACTOR UNLESS THE CONTRACTOR CAN SHOW EVIDENCE THAT CIRCUMSTANCES BEYOND HIS CONTROL REQUIRED THE RETESTING. GENERALLY, THE SPECIFIC TESTING WILL BE AS FOLLOWS AND CONDUCTED BY GEOTECHNICAL ENGINEER.
 - THE LAND TO BE FILLED (PREPARED SUBGRADE) SHALL BE PREPARED AND TESTED AT A FREQUENCY AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
 - THE FIRST LIFT OF COMPACTED FILL (GENERALLY 8 TO 12 IN.) SHALL BE TESTED AS DETERMINED BY THE GEOTECHNICAL ENGINEER. ANY AREAS SUPPORTING THE PROPOSED STRUCTURES REQUIRING FILL SHALL BE TESTED FOR DENSITY COMPLIANCE.
 - FILLS SHALL BE TESTED A MAXIMUM OF EACH EIGHTEEN INCHES (18") OF FILL. TEST RESULTS WILL BE PROVIDED BY THE FIELD TECHNICIAN TO THE CONTRACTOR WHEN POSSIBLE; HOWEVER, ALL TEST RESULTS ARE TO BE REVIEWED BY THE GEOTECHNICAL ENGINEER FOR COMPLIANCE. THE ENGINEER WILL NOTIFY THE CONTRACTOR OF ALL THE TEST RESULTS.
- CUT/FILL LOTS**
AREAS INVOLVING CUT ON ONE PORTION AND FILL ON ANOTHER PORTION OF A SPECIFIC LOT SHALL BE PREPARED TO A MINIMUM DEPTH OF 6 IN. AND WILL BE THE SAME MATERIAL CLASSIFICATION AT THE SAME COMPACTION AND MOISTURE CONTENT. A MINIMUM OF TWO (2) FIELD DENSITY TESTS SHALL BE REQUIRED ON EACH CUT/FILL LOT FOR THE PURPOSE OF DETERMINING UNIFORMITY OF THE AREA SUPPORTING THE PROPOSED STRUCTURES.

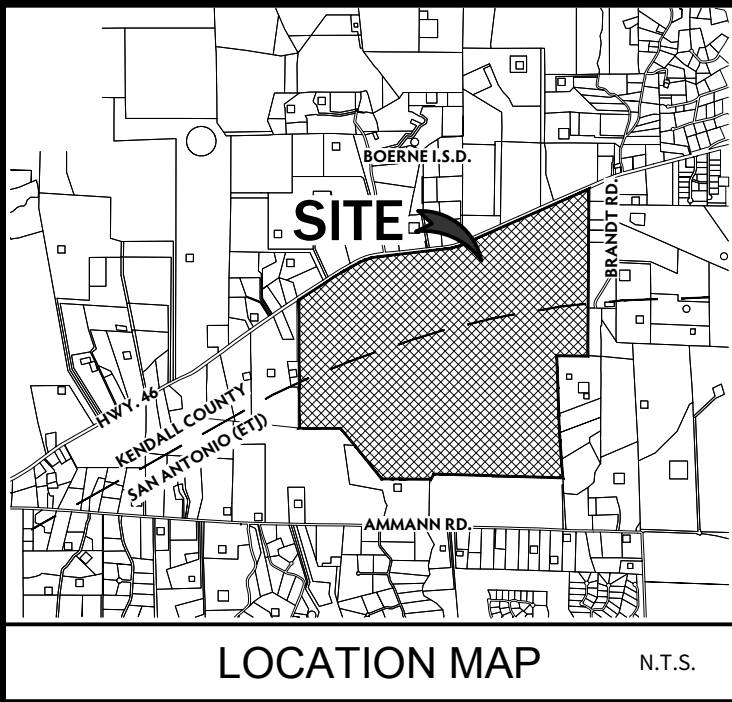


DATE
04/22/2021
PROJECT NO.
03546.000
DRAWN BY
MW/RM
CHECKED BY
WPM

REVISIONS
1. 2021-10-11 - REVISED CLOMR GRADING, ADDED HYDROTURF, LINER, AND NOTE
2. 2022-03-31 - REVISED CLOMR GRADING, REMOVED PONDS
3. 2022-04-28 - REVISED CLOMR GRADING, REMOVED POST OAK CREEK GRADING
4.
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5/5/2022

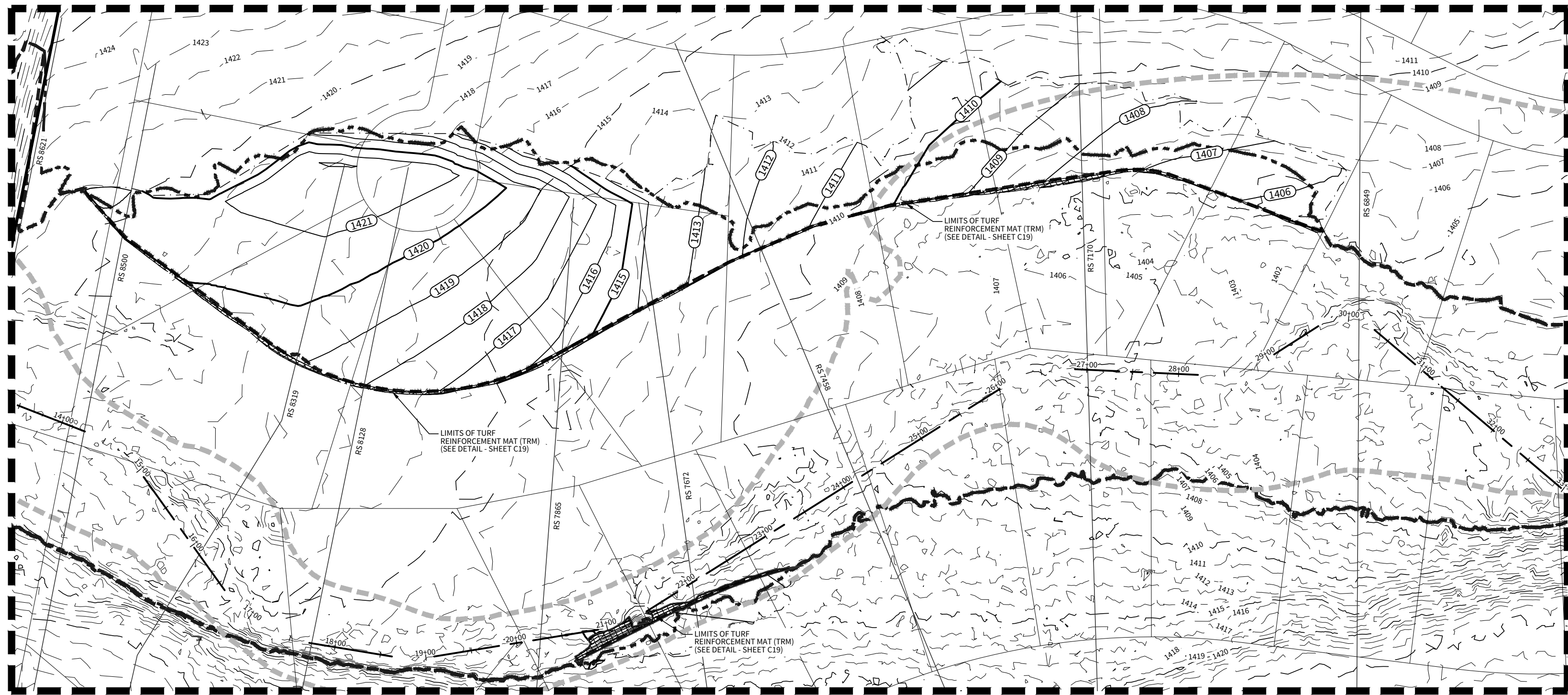
CUDE ENGINEERS
TBPCL No. 455



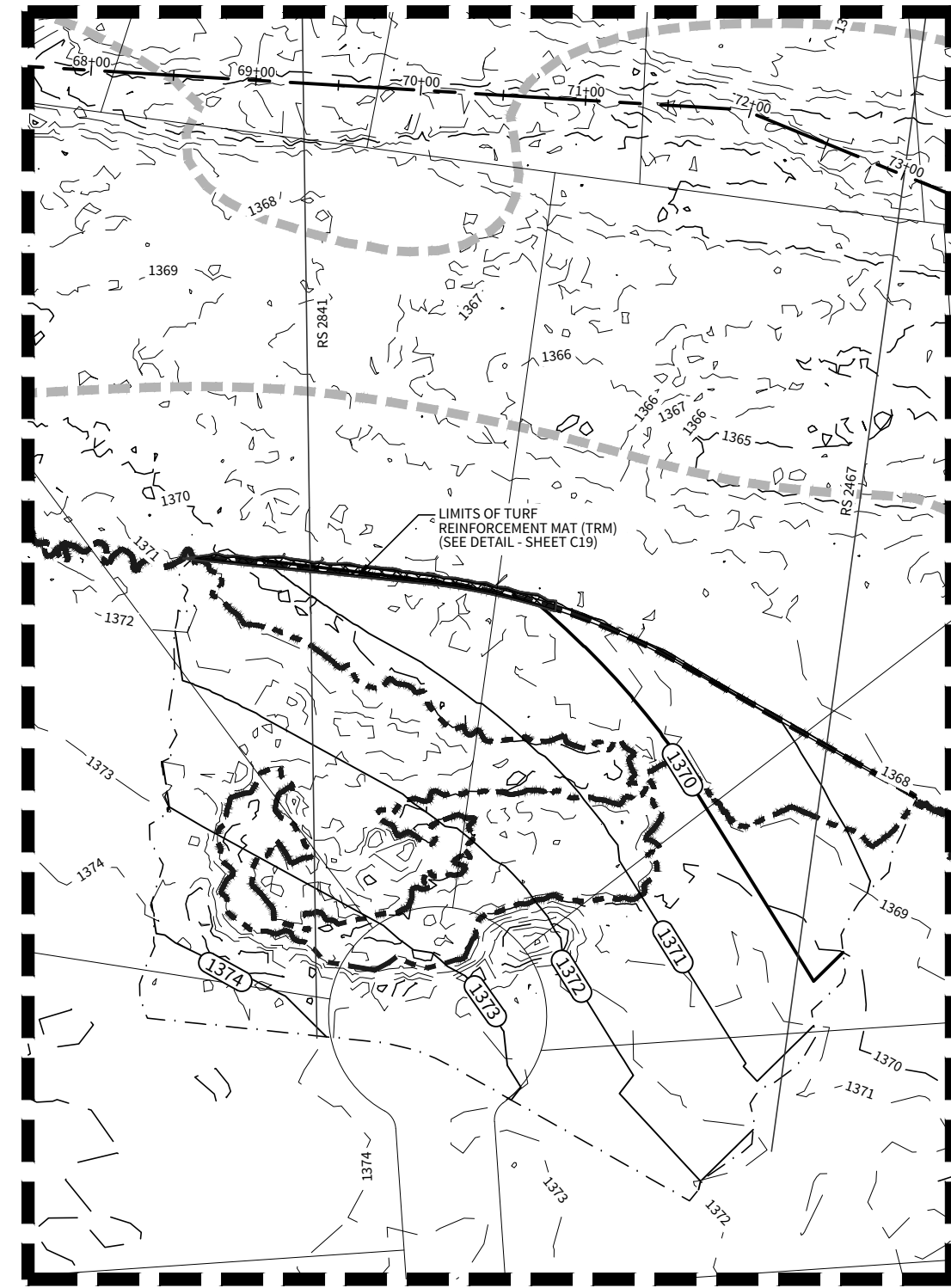
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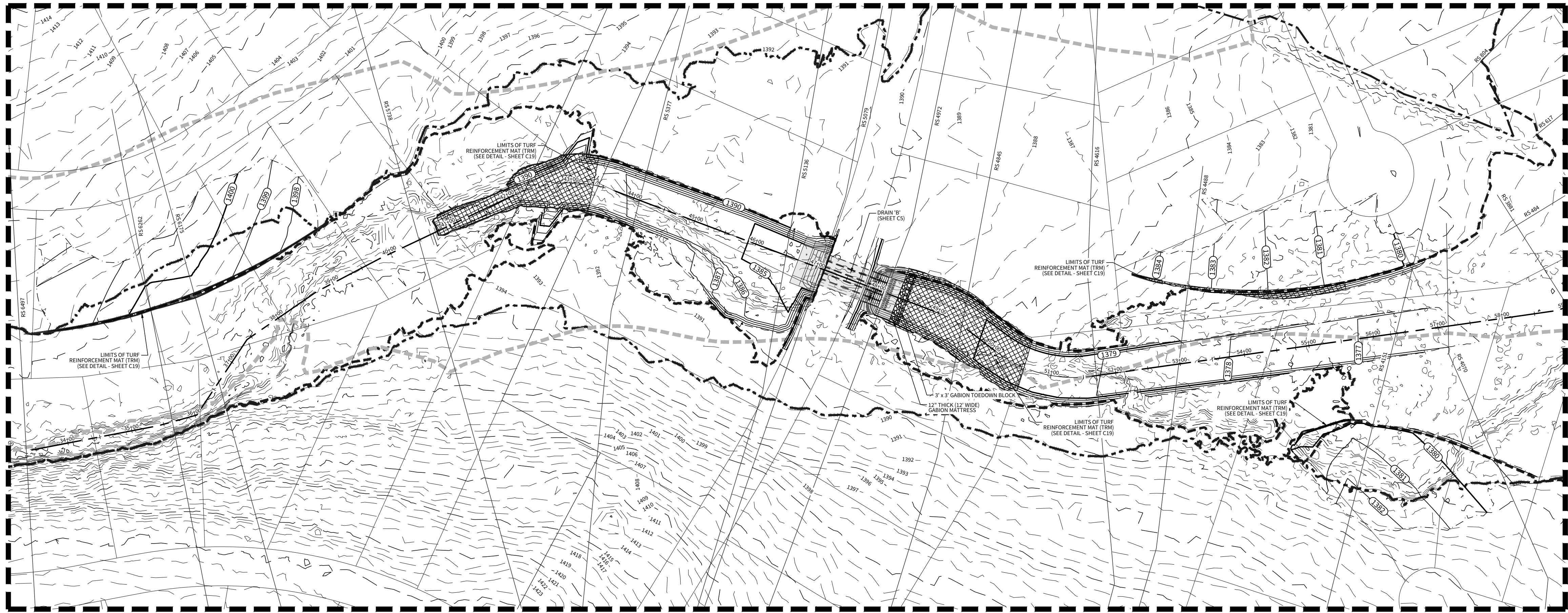
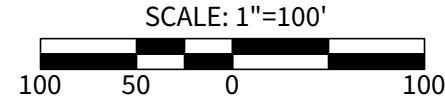
- GENERAL DESCRIPTION**
THE SITE SHALL CONSIST OF ALL CLEARING AND GRUBBING, DEMOLITION, PREPARATION OF LAND TO BE FILLED, FILLING OF THE LAND, SPREADING, COMPACTION TESTING AND INSPECTION OF THE FILL, AND ALL SUBSIDIARY WORK NECESSARY TO COMPLETE THE GRADING OF THE CUT AND FILL AREAS TO CONFORM WITH THE LINES, GRADES AND SLOPES AS SHOWN ON THE APPROVED PLANS. ALL LOT GRADING MUST MEET REQUIREMENTS OF FHWA/HUD HANDBOOK 4140.3. SPECIFICATIONS FOR LAND DEVELOPMENT ON CONTROLLED EARTHWORK, DATED 1976, HMD 79g, HMD 79g REQUIREMENTS FOR FILL MATERIAL OF 6 INCHES AND MORE WILL BE CONDUCTED. ALL CUT AREAS WILL ALSO MEET THE REQUIREMENTS FOR HMD 79g COMPACTION TESTING. IN ADDITION, ENGINEERS MUST PROVIDE VERIFICATION OF ALL AREAS WHICH DO NOT REQUIRE HMD 79g.
- CLEARING THE AREA TO BE FILLED**
ALL TIMBER, LOGS, TREES, BRUSH AND RUBBISH SHALL BE REMOVED FROM THE SITE.
- SCARIFYING THE AREA TO BE FILLED**
ALL ORGANIC MATTER SHALL BE REMOVED FROM THE SURFACE UPON WHICH THE FILL IS TO BE PLACED, AND THE SURFACE SHALL THEN BE DISKED OR SCARIFIED TO A MINIMUM DEPTH OF SIX INCHES (6"). ALL SURFACE RUTS OR OTHER UNIFORM FEATURES WILL BE LEVELLED PRIOR TO FIELD DENSITY TESTING.
- COMPACTION OF THE AREA TO BE FILLED**
FOLLOWING THE CLEARING AND GRUBBING OR SCARIFYING OF THE FILL AREA, IT SHALL BE BLOADED UNTIL IT IS UNIFORM AND FREE FROM LARGE CLOS. THE AREA SHALL BE BROUGHT TO THE ADEQUATE MOISTURE CONTENT AND COMPACTED TYPICALLY TO NOT LESS THAN NINETY PERCENT (90%) OF MAXIMUM DENSITY IN ACCORDANCE WITH THE CURRENT ASTM D 1557 COMPACTION PROCEDURE, OR 90% OF MAXIMUM DENSITY IN ACCORDANCE WITH THE CURRENT T90-T99-33.3-E COMPACTION PROCEDURE.
- FILL MATERIALS**
THE MATERIALS USED SHALL BE FREE FROM ORGANIC MATTER AND OTHER DELETERIOUS SUBSTANCES, SUCH AS TREES, BRUSH AND RUBBISH.
- DEPTH & MIXING OF FILL LAYERS**
THE SELECTED FILL MATERIAL SHALL BE PLACED IN LEVEL, UNIFORM LAYERS WHICH, WHEN COMPACTED, SHALL HAVE A DENSITY CONFORMING TO THAT STIPULATED ABOVE. EACH LAYER SHALL BE THOROUGHLY MIXED DURING THE SPREADING TO ENSURE UNIFORMITY OF MATERIAL IN EACH LAYER. COMPACTED LAYER THICKNESS MAY VARY DEPENDING ON THE COMPACTION EQUIPMENT OF DEMONSTRATED CAPABILITY. THE MAXIMUM LAYER DEPTH FOR ANY MATERIAL SHALL NOT EXCEED TWELVE INCHES (12"). FOR TESTING REQUIREMENTS OF FILL MATERIAL, SEE DENSITY TESTING.
- ROCK**
WHEN FILL MATERIAL INCLUDES ROCK, THE MAXIMUM ROCK SIZE SHALL BE AS APPROVED BY THE GEOTECHNICAL ENGINEER. NO LARGE ROCKS SHALL BE ALLOWED TO REST AND ALL Voids MUST BE FILLED WITH SMALL STONES OR SOIL AND ADEQUATELY COMPACTED. NO LARGE ROCKS WILL BE PERMITTED WITHIN EIGHTEEN INCHES (18") OF THE FINISHED GRADE.
- COMPACTION OF FILL LAYERS**
COMPACTION EQUIPMENT SHALL BE CAPABLE OF COMPACTING THE FILL TO THE SPECIFIED DENSITY. COMPACTION SHALL BE ACCOMPLISHED WHILE THE FILL MATERIAL IS AT OR NEAR THE APPROPRIATE MOISTURE CONTENT. COMPACTION OF EACH LAYER SHALL BE CONTINUOUS OVER THE ENTIRE STRUCTURAL AREA (BENEATH PROPOSED STRUCTURES).
- COMPACTION OF SLOPES**
THE FACES OF THE SLOPES SHALL BE COMPACTED. COMPACTION OPERATIONS SHALL BE CONTINUED UNTIL THE SLOPE FACES ARE STABLE BUT NOT TOO DENSE FOR PLANTING ON THE SLOPES. COMPACTION OF THE SLOPE FACES MAY BE DONE PROGRESSIVELY IN INCREMENTS OF THREE TO FIVE FEET (3' TO 5') IN FILL HEIGHT AS THIS FILL PROGRESSES OR AFTER THE FILL HAS BEEN BROUGHT TO ITS TOTAL HEIGHT.
- MOISTURE CONTENT**
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- DENSITY TESTS**
FIELD DENSITY TESTS SHALL BE PERFORMED ON LAYERS OF FILL WHEN THE FILL IS BEING PLACED AS DIRECTED BY THE GEOTECHNICAL ENGINEER. THE MAXIMUM FILL HEIGHT BETWEEN DENSITY TESTING SHALL BE EIGHTEEN INCHES (18"). ALL TESTING SHALL BE REQUESTED BY THE CONTRACTOR TO MEET THE CONTRACTOR'S CONSTRUCTION SCHEDULE. NOTIFICATION BY THE CONTRACTOR TO CONDUCT TESTS SHALL BE AT LEAST 72 HOURS BEFORE. THIS NOTIFICATION SHALL INCLUDE THE FILL AREA LOCATION (LOT AND BLOCK), THE LIFT OR HEIGHT OF FILL AND APPROXIMATE DEDUCT TIME OF TESTING. WHEN THESE TESTS INDICATE THAT THE DENSITY OF ANY LAYER OF FILL OR PORTION THEREOF IS BELOW THE REQUIRED DENSITY, THE PARTICULAR LAYER OR PORTION SHALL BE REMOVED AND RETESTED AT THE EXPENSE OF THE CONTRACTOR UNLESS THE CONTRACTOR CAN SHOW EVIDENCE THAT CIRCUMSTANCES BEYOND HIS CONTROL REQUIRED THE RETESTING. GENERALLY, THE SPECIFIC TESTING WILL BE AS FOLLOWS AND CONDUCTED BY GEOTECHNICAL ENGINEERS.
 - THE LAND TO BE FILLED (PREPARED SUBGRADE) SHALL BE PREPARED AND TESTED AT A FREQUENCY AS DETERMINED BY THE GEOTECHNICAL ENGINEER.
 - THE FIRST LIFT OF COMPACTED FILL (GENERALLY 6" TO 12" IN) SHALL BE TESTED AS DETERMINED BY THE GEOTECHNICAL ENGINEER. ANY AREAS SUPPORTING THE PROPOSED STRUCTURES REQUIRING FILL SHALL BE TESTED FOR DENSITY COMPLIANCE.
 - FILLS SHALL BE TESTED A MAXIMUM OF EACH EIGHTEEN INCHES (18") OF FILL.
 - TEST RESULTS WILL BE PROVIDED BY THE FIELD TECHNICIAN TO THE CONTRACTOR WHEN POSSIBLE; HOWEVER, ALL TEST RESULTS ARE TO BE REVIEWED BY THE GEOTECHNICAL ENGINEER FOR COMPLIANCE. THE ENGINEER WILL NOTIFY THE CONTRACTOR OF ALL THE TEST RESULTS.
- CUT/FILL LOTS**
2600'S INVOLVING CUT ON ONE PORTION AND FILL ON ANOTHER PORTION OF A SPECIFIC LOT SHALL BE PREPARED TO A MINIMUM DEPTH OF 6-IN. AND WILL BE THE SAME MATERIAL CLASSIFICATION AT THE SAME COMPACTION AND MOISTURE CONTENT. A MINIMUM OF TWO (2) FIELD DENSITY TESTS SHALL BE REQUIRED ON EACH CUT/FILL LOT FOR THE PURPOSE OF DETERMINING UNIFORMITY OF THE AREA SUPPORTING THE PROPOSED STRUCTURES.



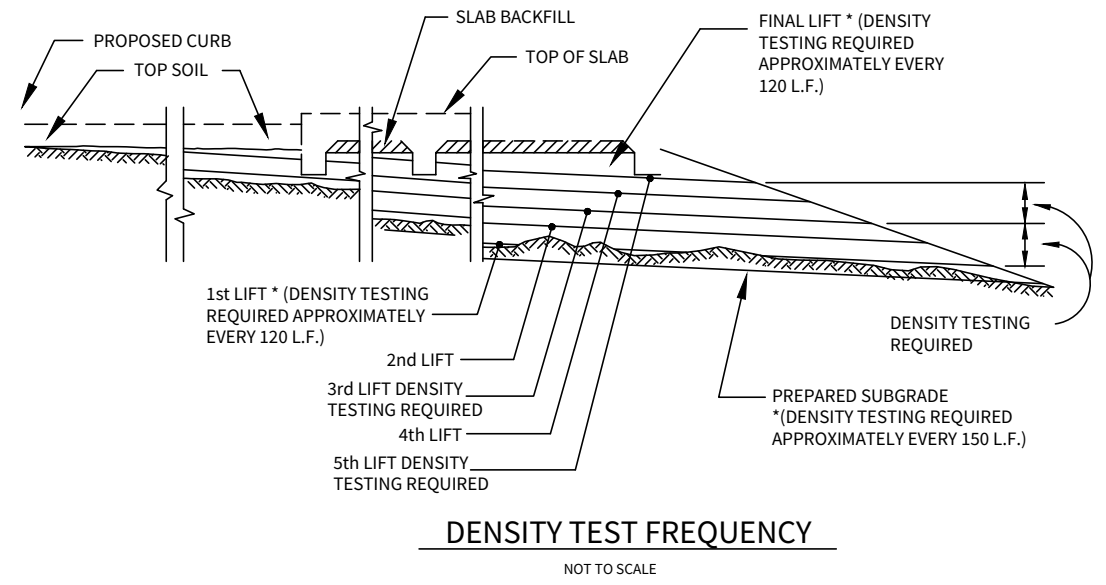
DETAIL 1



DETAIL 3



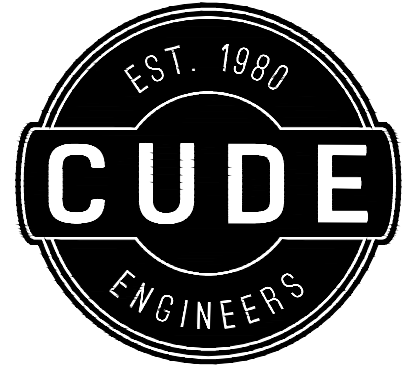
DETAIL 2



DENSITY TEST FREQUENCY
NOT TO SCALE

LEGEND

- | | |
|---|-------|
| PROPOSED CONTOUR | --- |
| EXISTING CONTOUR | - - - |
| PROPERTY BOUNDARY | --- |
| DETAIL EXTENTS | --- |
| HEC-RAS CROSS-SECTIONS | --- |
| TURF REINFORCEMENT MAT (SEE DETAIL - SHEET C19) | --- |
| GABION MATTRESS (SEE DETAIL - SHEET C20) | --- |
| EFFECTIVE 100 YR FLOODPLAIN | --- |
| CORRECTED EFFECTIVE 100 YR FLOODPLAIN | --- |
| PROPOSED 100 YR FLOODPLAIN | --- |
| STREAM CENTERLINE | --- |
| LIMITS OF GRADING | --- |
- NOTES:**
- UPON COMPLETION OF CLOMR GRADING ENGINEER TO REVIEW COMPETENCY OF BEDROCK WHERE PROJECT CONDITION VELOCITIES EXCEED EXISTING CONDITION VELOCITIES AND/OR WHERE VELOCITIES EXCEED 6 FPS AND REASSESS SITE FOR EROSION CONTROL MEASURES.
 - FILL SITES, UPON WHICH STRUCTURES WILL BE CONSTRUCTED OR PLACED MUST BE COMPACTED TO 95 PERCENT OF THE MAXIMUM DENSITY ATTAINABLE WITH THE STANDARD PROCTOR TEST METHOD OR AN ACCEPTABLE EQUIVALENT METHOD.
 - FILL SHALL BE COMPOSED OF CLEAN GRANULAR OR EARTHEN MATERIAL.



4122 Pond Hill Road, Suite 101
San Antonio, Texas 78231
P: (210) 681.2951 F: (210) 523.7112

**GEORGE'S RANCH
CLOMR**
CHANNEL IMPROVEMENT PLAN
TRIBUTARY A TO POSTOAK CREEK

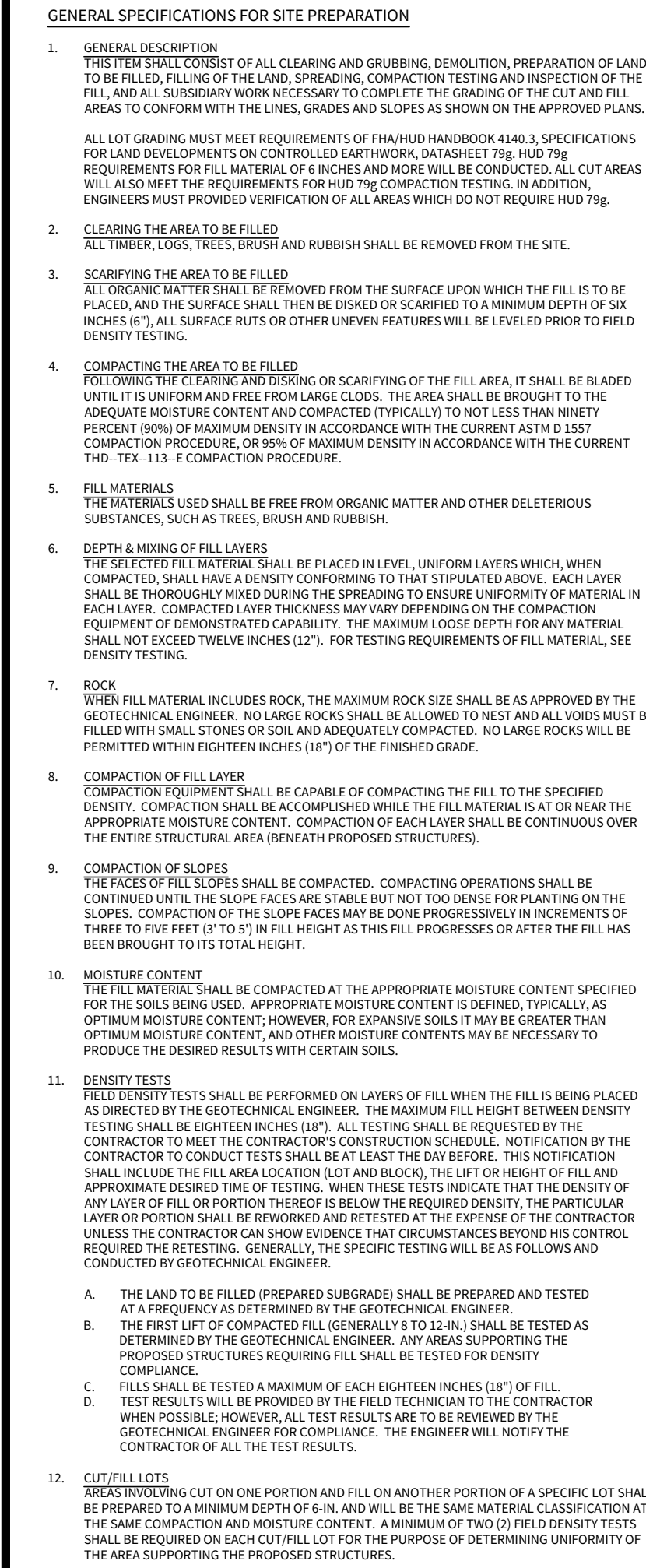
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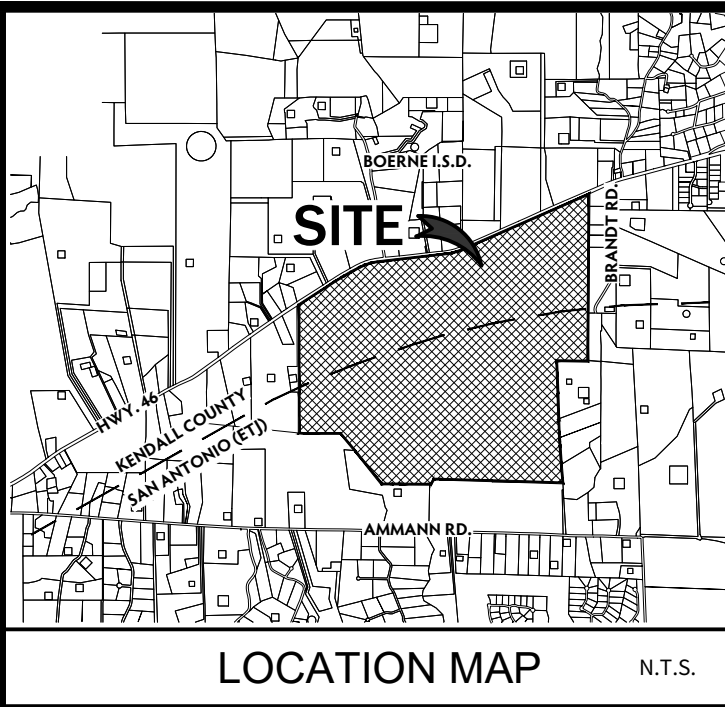
REVISIONS	
1.	2021-10-11 - REVISED CLOMR GRADING, ADDED HYDROLOGIC LINES, AND NOTE
2.	2022-03-01 - REVISED CLOMR GRADING, REMOVED PONDS
3.	2023-04-28 - REVISED CLOMR GRADING
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CUDE ENGINEERS
TBPCL No. 435

C2





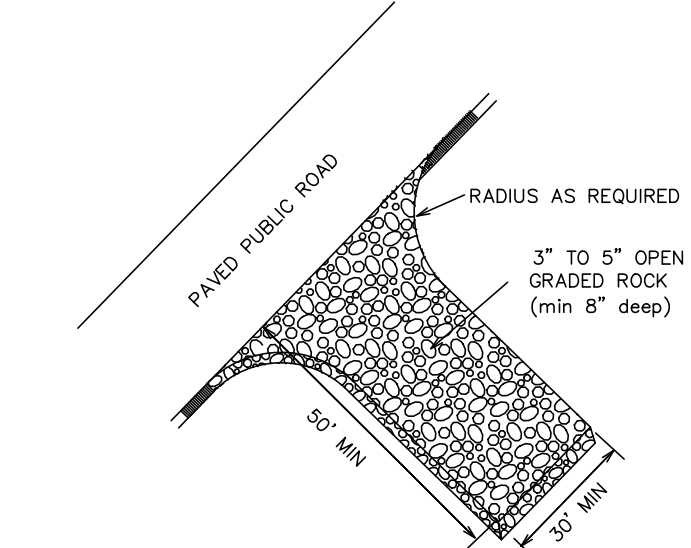
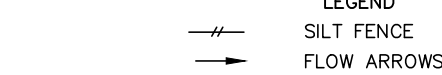
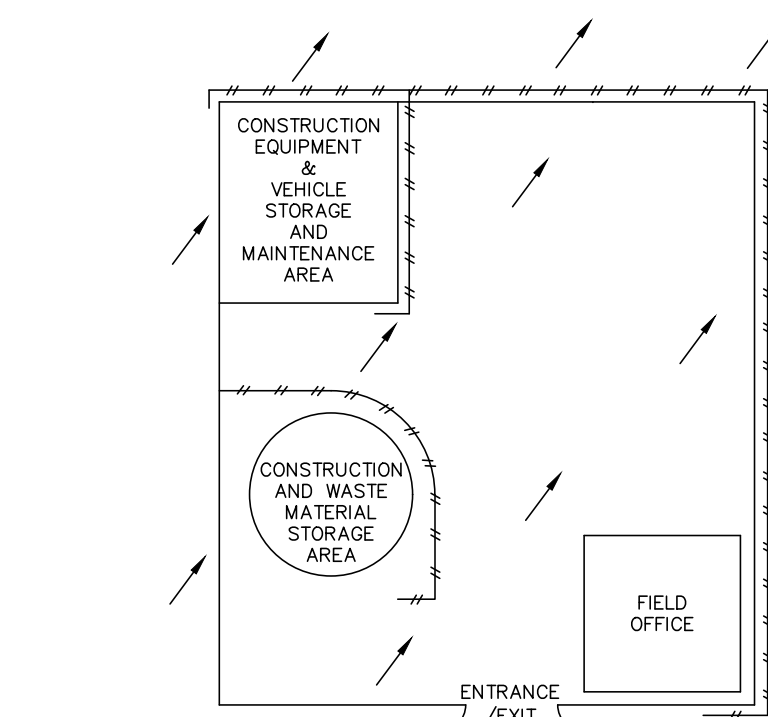
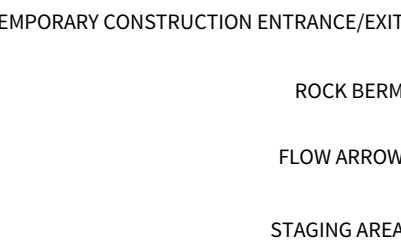
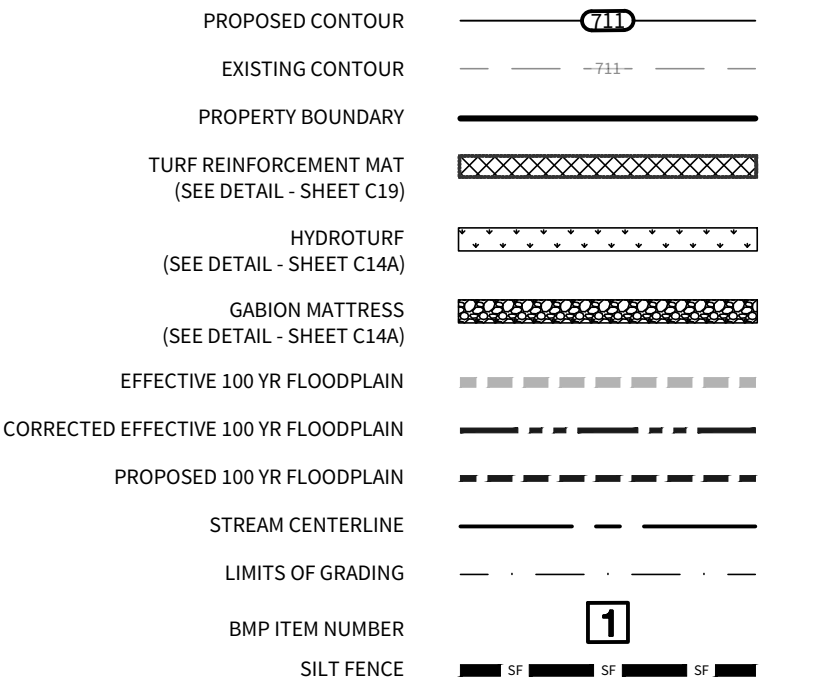
NOTE:

1. ALL SILT FENCES AND/OR ROCK BERMS AND TEMPORARY CONSTRUCTION ENTRANCES/EXITS SHALL BE PLACED AT THE MOST DOWN-GRADIENT POINT OF CONSTRUCTION AS SHOWN ON THIS SITE PLAN. CONTRACTOR SHALL TAKE INTO CONSIDERATION ANY PROPOSED CONSTRUCTION THAT MAY TAKE PLACE AT THESE LOCATIONS. ANY RELOCATION OF THE SILT FENCE, ROCK BERMS AND/OR TEMPORARY CONSTRUCTION ENTRANCES/EXITS SHALL BE AT THE CONTRACTOR'S EXPENSE.
2. THE PROPOSED CONTOURS ARE SHOWN ON THIS PLAN.
3. AREA OF SOIL DISTURBANCES INCLUDE STREET RIGHT-OF-WAYS, UTILITY EASEMENTS & LOTS.
4. THERE WILL BE STORMWATER DISCHARGE INTO THE FEMO FLOOD PLAN.
5. THE CONTRACTOR IS REQUIRED TO MAINTAIN EROSION CONTROLS THROUGHOUT THE DURATION OF THE PROJECT.
6. THE COUNTY INSPECTOR HAS THE AUTHORITY TO HAVE THE CONTRACTOR MODIFY THE EROSION CONTROLS AT THE DEVELOPER'S EXPENSE. THE DEVELOPER SHALL BE NOTIFIED OF THESE MODIFICATIONS PRIOR TO COMMENCEMENT OF MODIFICATIONS.
7. STORMWATER MANAGEMENT FACILITIES SHALL BE PROVIDED PRIOR TO SITE CONSTRUCTION OR CLEARING.

DEVELOPER:

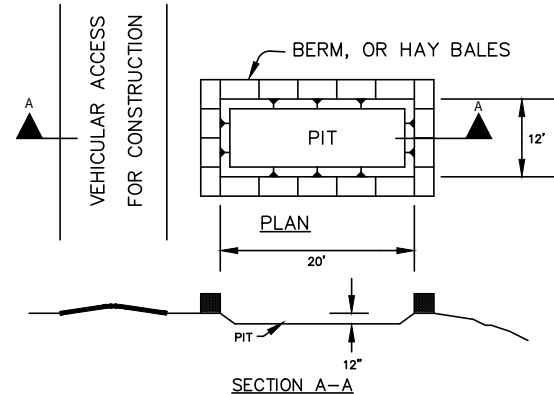
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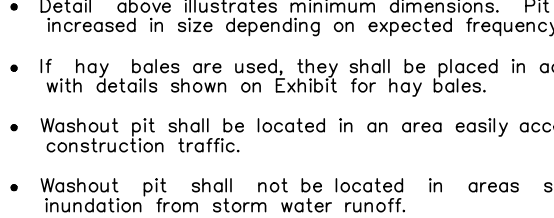


STABILIZED CONSTRUCTION EXIT NOTES:

1. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ON PUBLIC ROADWAY.
2. THE EXIT SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC ROADWAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS MUST BE REMOVED IMMEDIATELY.



3 CONCRETE TRUCK WASHOUT PIT N.T.S.



4 STANDARD SILT FENCE N.T.S.



5 HIGH-SERVICE ROCK BERM N.T.S.



6 STANDARD SILT FENCE N.T.S.



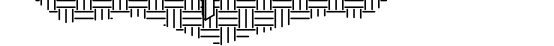
7 STANDARD SILT FENCE N.T.S.



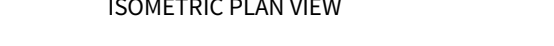
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9 STANDARD SILT FENCE N.T.S.



10 STANDARD SILT FENCE N.T.S.



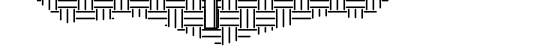
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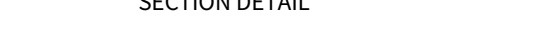
12 STANDARD SILT FENCE N.T.S.



13 STANDARD SILT FENCE N.T.S.



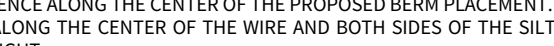
14 STANDARD SILT FENCE N.T.S.



15 STANDARD SILT FENCE N.T.S.



16 STANDARD SILT FENCE N.T.S.



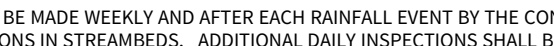
17 STANDARD SILT FENCE N.T.S.



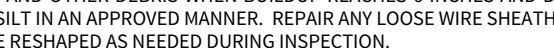
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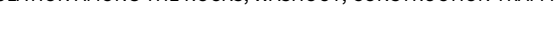
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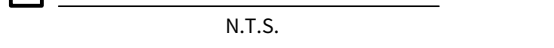
20 STANDARD SILT FENCE N.T.S.



21 STANDARD SILT FENCE N.T.S.



22 STANDARD SILT FENCE N.T.S.



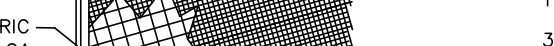
23 STANDARD SILT FENCE N.T.S.



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25 STANDARD SILT FENCE N.T.S.



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34 STANDARD SILT FENCE N.T.S.



35 STANDARD SILT FENCE N.T.S.



TEMPORARY BEST MANAGEMENT PRACTICES AND MEASURES

SEQUENCE OF INSTALLATION DURING CONSTRUCTION PROCESS:

1. THE TEMPORARY CONSTRUCTION ENTRANCE/EXIT (ITEM 2) SHALL BE INSTALLED PRIOR TO DISTURBING ANY SOIL EXCEPT AT THE LOCATION OF THE TEMPORARY CONSTRUCTION ENTRANCE/EXIT. IT SHALL STAY IN PLACE AND BE MAINTAINED UNTIL THE END OF THE INFRASTRUCTURE CONSTRUCTION.
2. SILT FENCE (ITEM 4) SHALL BE INSTALLED ALONG THE DOWN-GRADIENT BOUNDARY OF THE SITE PRIOR TO ANY DISTURBANCE OF THE SITE AS SHOWN ON THE SITE PLAN.
3. ROCK BERMS (ITEM 5) SHALL BE INSTALLED AROUND THE PERIMETER OF THE PROJECT AT NATURAL LOW POINTS FOLLOWING ROUGH GRADING OF THE SITE AND SHALL BE REMOVED ONCE GRADING TO THE ON-SITE STORMWATER DRAINAGE SYSTEM WITH BAGGED GRAVEL INLET FILTERS IN PLACE IS COMPLETE. ROCK BERMS WILL ALSO BE UTILIZED AT THE OUTLET OF THE POND WHILE IT IS BEING CONSTRUCTED.

INSPECTIONS:

DESIGNATED AND QUALIFIED PERSON(S) SHALL INSPECT POLLUTION CONTROL MEASURES EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT GREATER THAN 0.5 INCHES OF RAINFALL. AN INSPECTION REPORT THAT SUMMARIZES THE SCOPE OF THE INSPECTION, NAMES AND QUALIFICATIONS OF PERSONNEL CONDUCTING THE INSPECTION, DATE OF THE INSPECTION, MAJOR OBSERVATIONS, AND ACTIONS TAKEN AS A RESULT OF THE INSPECTION SHALL BE RECORDED AND MAINTAINED AS PART OF STORM WATER TPDES DATA FOR A PERIOD OF THREE YEARS AFTER THE DATE OF THE INSPECTION. A COPY OF THE INSPECTION REPORT FORM IS PROVIDED IN THIS STORM WATER POLLUTION PREVENTION PLAN.

AS A MINIMUM, THE INSPECTOR SHALL OBSERVE: (1) SIGNIFICANT DISTURBED AREAS FOR EVIDENCE OF EROSION, (2) STORAGE AREAS FOR EVIDENCE OF LEAKAGE FROM THE EXPOSED STORED MATERIALS, (3) STRUCTURAL CONTROLS (ROCK BERM, ROCK BERM, SILT FENCES, DRAINAGE SWALES, ETC.) FOR EVIDENCE OF FAILURE OR EXCESS SILTATION (OVER 6 INCHES DEEP), (4) VEHICLE EXIT POINT FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING, (5) VEHICLE STORAGE AREAS FOR SIGNS OF LEAKING EQUIPMENT OR SPILLS, AND (6) CONCRETE TRUCK RINSE-OUT PIT FOR SIGNS OF POTENTIAL FAILURE. DEFICIENCIES NOTED DURING THE INSPECTION WILL BE CORRECTED AND DOCUMENTED WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE INSPECTION OR BEFORE THE NEXT ANTICIPATED STORM EVENT IF PRACTICABLE.

EMERGENCY RESPONSE PLAN

WHEN THE CONTRACTOR IDENTIFIES THE POTENTIAL FOR A RAINFALL EVENT OCCURRING WITHIN THE DRAINAGE BASIN ASSOCIATED WITH CLOMR IMPROVEMENTS THE CONTRACTOR SHALL TAKE THE FOLLOWING ACTIONS:

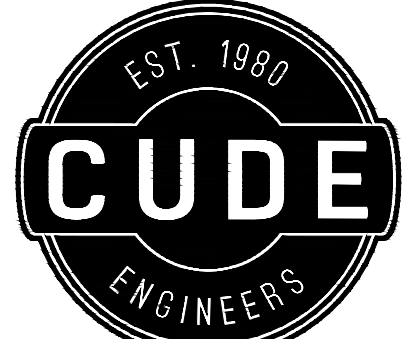
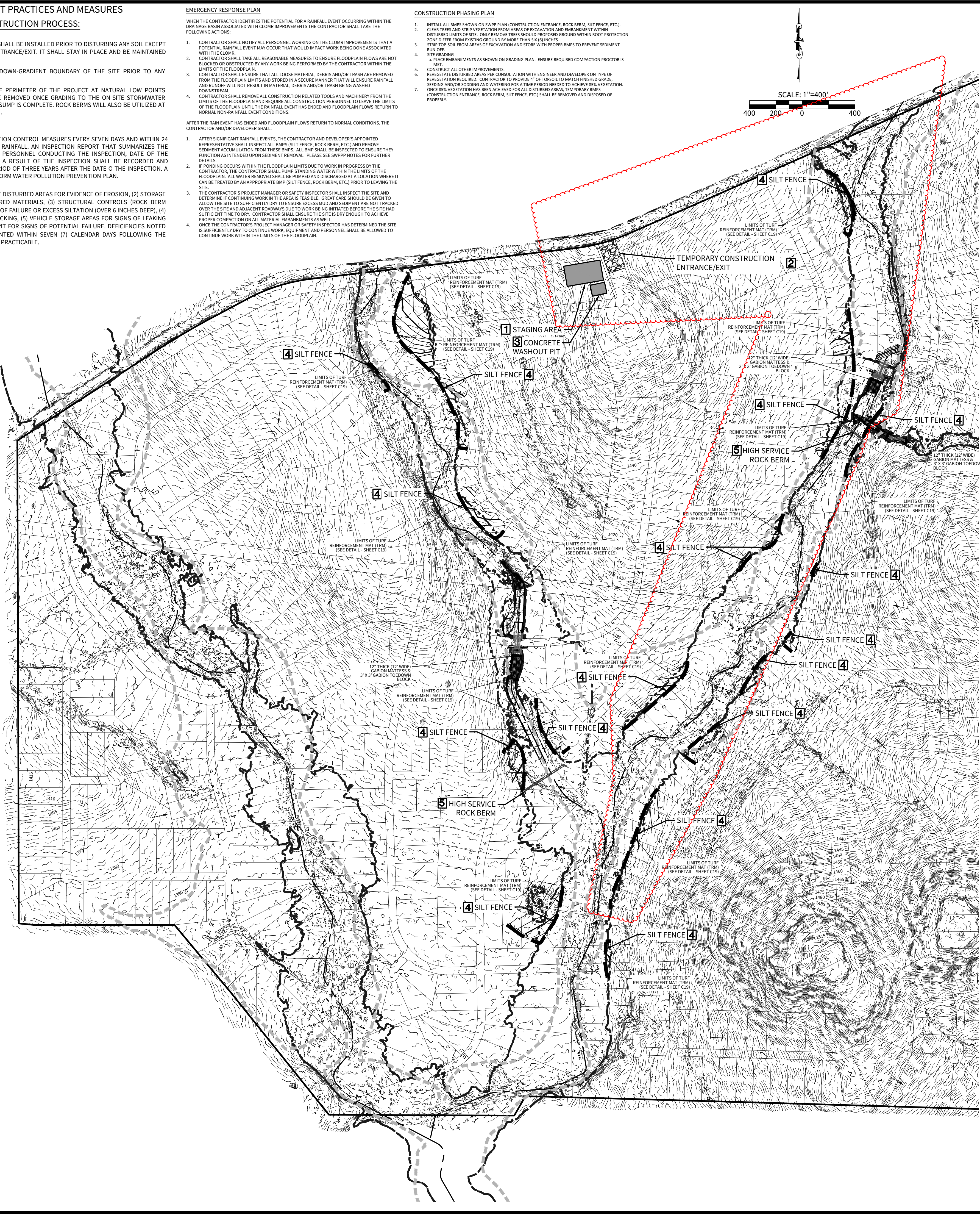
1. CONTRACTOR SHALL NOTIFY ALL PERSONNEL WORKING ON THE CLOMR IMPROVEMENTS THAT A POTENTIAL RAINFALL EVENT MAY OCCUR THAT WOULD IMPACT WORK BEING DONE ASSOCIATED WITH THE CLOMR.
2. CONTRACTOR SHALL TAKE ALL REASONABLE MEASURES TO ENSURE FLOODPLAIN FLOWS ARE NOT BLOCKED OR OBSTRUCTED BY ANY WORK BEING PERFORMED BY THE CONTRACTOR WITHIN THE LIMITS OF THE FLOODPLAIN.
3. CONTRACTOR SHALL ENSURE THAT ALL LOOSE MATERIAL, DEBRIS AND/OR TRASH ARE REMOVED FROM THE FLOODPLAIN LIMITS AND STORED IN A SECURE MANNER THAT WILL ENSURE RAINFALL AND RUNOFF WILL NOT RESULT IN MATERIAL, DEBRIS AND/OR TRASH BEING WASHED DOWNSTREAM.
4. CONTRACTOR SHALL REMOVE ALL CONSTRUCTION RELATED TOOLS AND MACHINERY FROM THE LIMITS OF THE FLOODPLAIN AND REQUIRE ALL CONSTRUCTION PERSONNEL TO LEAVE THE LIMITS OF THE FLOODPLAIN UNTIL THE RAINFALL EVENT HAS ENDED AND FLOODPLAIN FLOWS RETURN TO NORMAL NON-RAINFALL EVENT CONDITIONS.

AFTER THE RAIN EVENT HAS ENDED AND FLOODPLAIN FLOWS RETURN TO NORMAL CONDITIONS, THE CONTRACTOR AND/OR DEVELOPER SHALL:

1. AFTER SIGNIFICANT RAINFALL EVENTS, THE CONTRACTOR AND DEVELOPER'S APPOINTED REPRESENTATIVE SHALL INSPECT ALL BMPs (SILT FENCE, ROCK BERM, ETC.) AND REMOVE SEDIMENT ACCUMULATION FROM THESE BMPs. ALL BMPs SHALL BE INSPECTED TO ENSURE THEY FUNCTION AS INTENDED UPON SEDIMENT REMOVAL. PLEASE SEE SWPPP NOTES FOR FURTHER DETAILS.
2. IF FLOODING OCCURS WITHIN THE FLOODPLAIN LIMITS DUE TO WORK IN PROGRESS BY THE CONTRACTOR, THE CONTRACTOR SHALL PUMP STANDING WATER WITHIN THE LIMITS OF THE FLOODPLAIN. ALL WATER REMOVED SHALL BE PUMPED AND DISCHARGED AT A LOCATION WHERE IT CAN BE TREATED BY AN APPROPRIATE BMP (SILT FENCE, ROCK BERM, ETC.) PRIOR TO LEAVING THE SITE.
3. THE CONTRACTOR'S PROJECT MANAGER OR SAFETY INSPECTOR SHALL INSPECT THE SITE AND DETERMINE IF CONTINUING WORK IN THE AREA IS FEASIBLE. GREAT CARE SHOULD BE GIVEN TO ALLOW THE SITE TO SUFFICIENTLY DRY TO ENSURE EXCESS MUD AND SEDIMENT ARE NOT TRACKED OVER THE SITE AND ADJACENT ROADWAYS DUE TO WORK BEING INITIATED BEFORE THE SITE IS DRY ENOUGH TO DRY. CONTRACTOR SHALL ENSURE THE SITE IS DRY ENOUGH TO ACHIEVE PROPER COMPACTION ON ALL MATERIAL EMBANKMENTS AS WELL.
4. ONCE THE CONTRACTOR'S PROJECT MANAGER OR SAFETY INSPECTOR HAS DETERMINED THE SITE IS SUFFICIENTLY DRY TO CONTINUE WORK, EQUIPMENT AND PERSONNEL SHALL BE ALLOWED TO CONTINUE WORK WITHIN THE LIMITS OF THE FLOODPLAIN.

CONSTRUCTION PHASING PLAN

1. INSTALL ALL BMPs SHOWN ON SWPPP PLAN (CONSTRUCTION ENTRANCE, ROCK BERM, SILT FENCE, ETC.) CLEAR TREES AND STRIP VEGETATION FROM AREAS OF EXCAVATION AND EMBANKMENT WITHIN DISTURBED LIMITS OF SITE. ONLY REMOVE TREES SHOULD PROPOSED GROUND WITHIN ROOT PROTECTION ZONE DIFFER FROM EXISTING GROUND BY MORE THAN SIX (6) INCHES.
2. STOP TOP SOIL FROM AREAS OF EXCAVATION AND STORE WITH PROPER BMPs TO PREVENT SEDIMENT RUNOFF.
3. SILENT GRADING.
4. PLACE EMBANKMENTS AS SHOWN ON GRADING PLAN. ENSURE REQUIRED COMPACTION PROCTOR IS USED.
5. CONSTRUCT ALL OTHER IMPROVEMENTS.
6. REVEGETATE DISTURBED AREAS WITH CONSULTATION WITH ENGINEER AND DEVELOPER ON TYPE OF REVEGETATION REQUIRED. CONTRACTOR TO PROVIDE 4" OF TOPSOIL TO MATCH FINISHED GRADE. SEEDING AND/OR SOILING AND WATERING FOR A TIME PERIOD NEEDED TO ACHIEVE 80% VEGETATION. ONCE 80% VEGETATION HAS BEEN ACHIEVED FOR ALL DISTURBED AREAS, TEMPORARY BMPs (CONSTRUCTION ENTRANCE, ROCK BERM, SILT FENCE, ETC.) SHALL BE REMOVED AND DISPOSED OF PROPERLY.



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GEORGE'S RANCH CLOMR

STORMWATER POLLUTION PREVENTION PLAN

DATE

04/22/2021

PROJECT NO.

03546.000

DRAWN BY

MW/RM

CHECKED BY

WPM

REVISIONS

1. 2022-01-31 - REVISED CLOMR GRADING, REMOVED POND
2. 2022-04-27 - REVISED CLOMR GRADING, REMOVED POST OAK CREEK GRADING
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.



CUDE ENGINEERS
TBPEL No. 435

C21