FLAGGING 10' MIN. ON ALL SIDES--SANDBAG 0 0 0 SECTION A-A 0 10 MIL PLASTIC LINING -

-TEMPORARY CONCRETE WASHOUT FACILITIES (TYPE BELOW GRADE) SHOULD BE CONSTRUCTED AS SHOWN ON THE DETAIL, WITH A RECOMMEND MINIMUM LENGTH AND MINIMUM WIDTH OF 10 FT. THE QUANTITY AND VOLUME SHOULD BE SUFFICIENT TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.

-LATH AND FLAGGING SHOULD BE COMMERCIAL TYPE. -PLASTIC LINING MATERIAL SHOULD BE A MINIMUM 10 MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS, OR THERE DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL

BELOW GRADE

## TEMPORARY CONCRETE **WASHOUT FACILITY**

(NO SCALE)

EROSION CONTROL NOTES

- ALL EROSION AND SEDIMENT CONTROL PRACTICES SHALL MEET THE MISSOUR DEPARTMENT OF NATURAL RESOURCES REQUIREMENTS.
- 2. SILT FENCES ARE TO BE CONSTRUCTED ON THE OUTSIDE OF ALL FILL AREAS AND AROUND TOPSOIL STOCKPILES WITHIN 7 DAYS OF DISTURBANCE.
- DISTURBED AREAS WHICH WILL REMAIN UNWORKED FOR A PERIOD OF 45 DAYS OR MORE SHALL BE STABILIZED WITH SEEDING AND MULCHING OR OTHER
- 4. PERMANENT SEEDING SHALL BE IN ACCORDANCE WITH LANDSCAPE SPECIFICATIONS.
- EROSION CONTROL BLANKETS WITH MATTING WILL BE USED ON DITCHES GREATER THAN 1.5% AND ALL OTHER SLOPES GREATER THAN 6% GRADE.
- 6. OTHER EROSION CONTROL MEASURES MAY BE NECESSARY DUE TO ENVIRONMENTAL CONDITIONS.
- 7. ALL EROSION MEASURES MUST REMAIN FUNCTIONAL UNTIL UPLAND AREAS ARE STABILIZED.
- REGULAR INSPECTION AND MAINTENANCE MUST BE PROVIDED FOR ALL EROSION CONTROL PRACTICES. PERMANENT RECORDS OF MAINTENANCE AND INSPECTIONS MUST BE MAINTAINED THROUGHOUT CONSTRUCTION. INSPECTIONS MUST BE MADE A MINIMUM OF ONCE EVERY 7 DAYS AND IMMEDIATELY AFTER STORM EVENTS GREATER THAN 0.50 INCHES IN A 24 HOUR PERIOD. INSPECTION RECORDS MUST CONTAIN NAME OF INSPECTOR. MAJOR OBSERVATIONS, DATE OF INSPECTION CERTIFICATION OF COMPLIANCE AND CORRECTIVE ACTION TAKEN.
- OFFSITE VEHICLE TRACKING OF SEDIMENT SHALL BE MINIMIZED. A 24'x 30' GRAVEL DRIVE APPROACH SHALL BE INSTALLED AND MAINTAINED AS A EMPORARY CONSTRUCTION ENTRANCE.
- 10. NO SOLID, LIQUID OR TOXIC WASTE SHALL BE DISCHARGED IN THE STORM SEWER RUNOFF. WASTE SHALL BE DISPOSED BY THE CONTRACTOR, OFF SITE, IN AN APPROVED WASTE DISPOSAL AREA.
- 11. WINTERIZATION ANY DISTURBED AREA THAT IS NOT GOING TO BE WORKED FOR 21 DAYS OR MORE MUST BE SEEDED AND MULCHED BY NOVEMBER 1 OR MUST HAVE A DORMANT SEEDING OR MULCH COVER APPLIED BETWEEN NOVEMBER 1 AND MARCH 1.

THE LAND IS BEING DISTURBED TO CONSTRUCT A RESTAURANT ALONG WITH PARKING AND SITE UTILITIES.

SCHEDULE OF CONSTRUCTION ACTIVITY

PROJECT DESCRIPTION

THE CONTRACTOR SHALL IMPLEMENT ALL EROSION CONTROL MEASURES PRIOR TO OTHER CONSTRUCTION ACTIVITY. ALL EROSION CONTROL MEASURES MUST REMAIN FUNCTIONAL UNTIL THE SITE HAS BEEN STABILIZED UNLESS OTHERWISE NOTED.

## TEMPORARY SEEDING

SEEDING DATES	SPECIES	LB/1000 FT. <sup>2</sup>	PER ACRE
MARCH 1 TO AUGUST 15	OATS TALL FESCUE ANNUAL RYEGRASS	3 1 1	4 BUSHEL 40 LB. 40 LB.
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 LB. 40 LB. 40 LB.
AUGUST 16 TO NOVEMBER 1	RYE TALL FESCUE ANNUAL RYEGRASS	3 1 1	2 BUSHEL 40 LB. 40 LB.
	WHEAT TALL FESCUE ANNUAL RYEGRASS	3 1 1	2 BUSHEL 40 LB. 40 LB.
	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 LB. 40 LB. 40 LB.
NOVEMBER 1 TO SPRING SEEDING	USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING.		

NOTE: OTHER APPROVED SEED SPECIES MAY BE SUBSTITUTED.

- 1. STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SUCH AS DIVERSIONS AND SEDIMENT TRAPS SHALL BE INSTALLED AND STABILIZED WITH TEMPORARY
- 3. THE SEEDBED SHALL BE PULVERIZED AND LOOSE TO ENSURE THE SUCCESS OF ESTABLISHING VEGETATION. HOWEVER, TEMPORARY SEEDING SHALL NOT BE
- 4. SOIL AMENDMENTS -- APPLICATIONS OF TEMPORARY VEGETATION SHALL ESTABLISHED ADEQUATE STANDS OF VEGETATION WHICH MAY REQUIRE THE USE OF SOIL AMENDMENTS. SOIL TESTS SHOULD BE TAKEN ON THE SITE TO PREDICT THE NEED FOR LIME AND FERTILIZER.
- 5. SEEDING METHOD -- SEED SHALL BE APPLIED UNIFORMLY WITH A CYCLONE SEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. WHEN FEASIBLE, SEED THAT HAS BEEN BROADCAST SHALL BE COVERED BY RAKING OR DRAGGING AND THEN LIGHTLY TAMPED INTO PLACE USING A ROLLER OR CULTIPACKER. IF HYDROSEEDING IS USED, THE SEED AND FERTILIZER WILL BE MIXED ON-SITE AND THE SEEDING SHALL BE DONE IMMEDIATELY AND WITHOUT INTERRUPTION.

- 1. APPLICATIONS OF TEMPORARY SEEDING SHALL INCLUDE MULCH WHICH SHALL BE APPLIED DURING OR IMMEDIATELY AFTER SEEDING. SEEDINGS MADE DURING OPTIMUM SEEDING DATES AND WITH FAVORABLE SOIL CONDITIONS AND ON VERY FLAT AREAS MAY NOT NEED MULCH TO ACHIEVE ADEQUATE STABILIZATION.
- MATERIALS:

STRAW--IF STRAW IS USED, IT SHALL BE UNROTTED SMALL-GRAIN APPLIED AT 2

HYDROSEEDERS--IF WOOD CELLULOSE FIBER IS USED, IT SHALL BE USED AT

OTHER--OTHER ACCEPTABLE MULCHES INCLUDE MULCH MATTINGS APPLIED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS OR WOOD CHIPS APPLIED AT

3. STRAW MULCH SHALL BE ANCHORED IMMEDIATELY TO MINIMIZE LOSS BY WIND OR WATER. ANCHORING METHODS:

ASPHALT EMULSION -- ASPHALT SHALL BE APPLIED AS RECOMMENDED BY THE

WOOD-CELLULOSE FIBRE--WOOD-CELLULOSE FIBER BINDER SHALL BE APPLIED AT A NET DRY WEIGHT OF 750 LB. /AC. THE WOOD-CELLULOSE FIBER SHALL BE MIXED WITH WATER AND THE MIXTURE SHALL CONTAIN A MAXIMUM OF 50 LB. /

SEEDING DATES	SPECIES	LB/1000 FT.2	PER ACRE
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	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 LB. 40 LB. 40 LB.
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	PERENNIAL RYEGRASS TALL FESCUE ANNUAL RYEGRASS	1 1 1	40 LB. 40 LB. 40 LB.
NOVEMBER 1 TO SPRING SEEDING	USE MULCH ONLY, SODDING PRACTICES OR DORMANT SEEDING.		

- SEEDING PRIOR TO GRADING THE REST OF THE CONSTRUCTION-SITE.
- TEMPORARY SEED SHALL BE APPLIED BETWEEN CONSTRUCTION OPERATIONS ON SOIL THAT WILL NOT BE GRADED OR REWORKED FOR 45 DAYS OR MORE. THESE IDLE AREAS SHOULD BE SEEDED AS SOON AS POSSIBLE AFTER GRADING OR SHALL BE SEEDED WITHIN 7 DAYS. SEVERAL APPLICATIONS OF TEMPORARY SEEDING ARE NECESSARY ON TYPICAL CONSTRUCTION PROJECTS
- POSTPONED IF IDEAL SEEDBED PREPARATION IS NOT POSSIBLE.

MULCHING TEMPORARY SEEDING

TONS/AC. OR 90 LB. / 1,000 SQ. FT. (TWO TO THREE BALES). THE MULCH SHALL BE SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQ. FT. SECTIONS AND SPREAD TWO 45 LB. BALES OF STRAW IN EACH SECTION.

2,000 LB. / AC. OR 46 LB. /1,000 SQ. FT.

6 TONS / AC.

MECHANICAL -- A DISK, CRIMPER OR SIMILAR TYPE TOOL SHALL BE SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL. STRAW MECHANICAL ANCHORED SHALL NOT BE FINELY CHOPPED BUT, GENERALLY BE LEFT LONGER THAN 6 IN.

MULCH NETTINGS -- NETTINGS SHALL BE USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. NETTING MADE BE NECESSARY TO HOLD MULCH IN PLACE IN AREAS OF CONCENTRATED RUNOFF AND ON CRITICAL SLOPES.

MANUFACTURER OR AT THE RATE OF 160 GAL. / AC.

SYNTHETIC BINDERS -- SYNTHETIC BINDERS SUCH AS ACRYLIC DLR (AGRI-TAC), DCA-70, PETROSET, TERRA-TACK OR EQUAL MAY BE USED AT RATES RECOMMENDED BY THE MANUFACTURER.

100 GAL.

## SILT FENCE

BACKFILL

INLET IN THE EARTH

ON ENDS AND

7. A COMPACTED EART

THE FRAME.

SHALL BE CONSTRUCT

BELOW THE INLET IF T

DEPRESSION AND IF RUN

INLET WILL NOT FLOW TO

THE TOP OF EARTH DIKES

BACKFILLED AND COMPACTED.

DRIVING INTO THE GROUND.

THROUGH THE GEOTEXTILE

OVERTOPS THE SILT FENCE,

AROUND THE ENDS, OR IN

TS SHALL BE 10 FT.

BECOMES A CONCENTRATED

FOLLOWING SHALL BE

APPROPRIATE: 1

FENCE SHALL BE

PRACTICES SHALL

CRITERIA FOR

SEDIMENT SHALL

10. MAINTENANCE-SILT FENCE SHALL

RUNOFF TO PASS ONLY AS DIFFUS

BE INSTALLED.

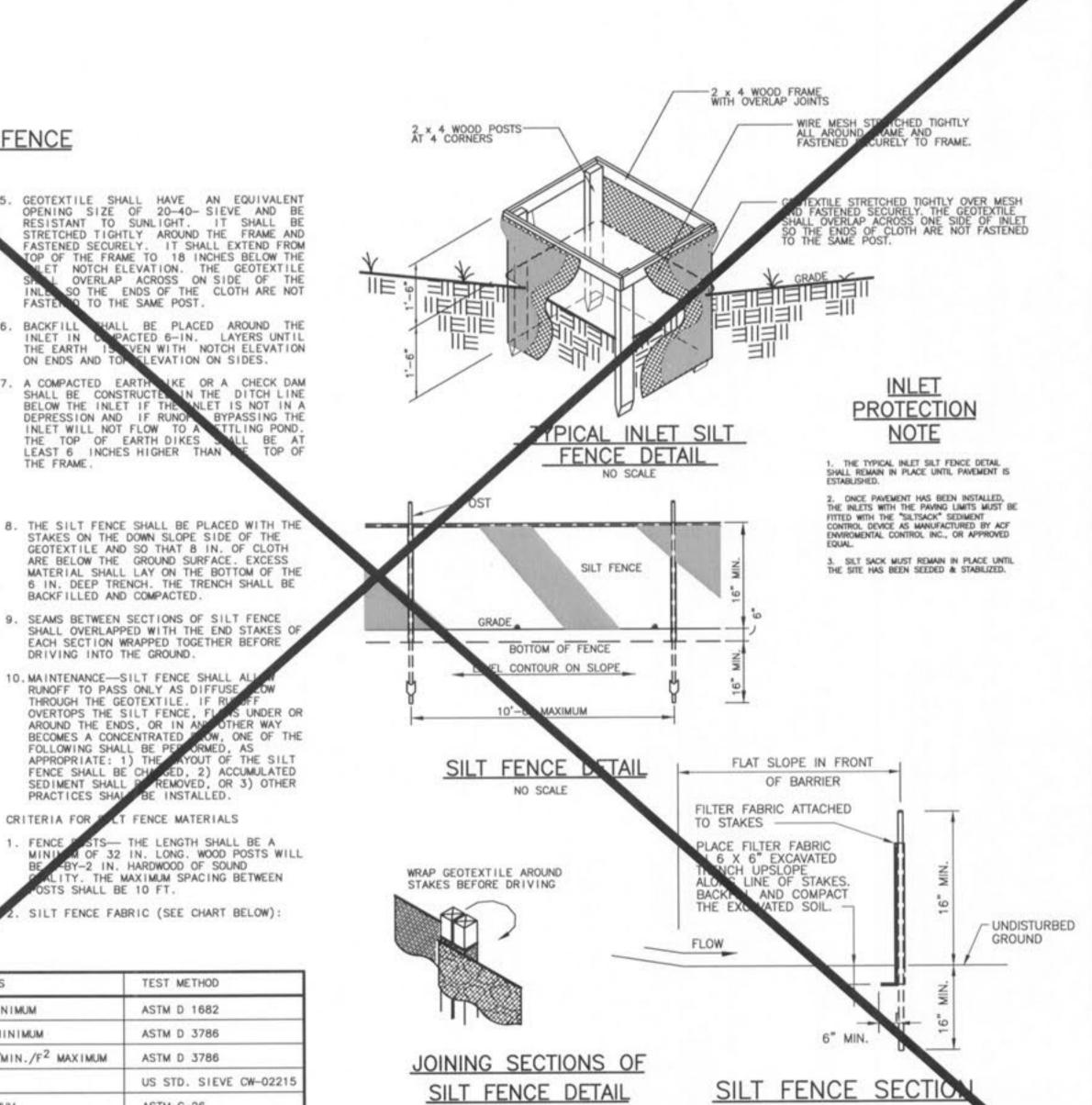
T FENCE MATERIALS

IN. HARDWOOD OF SOUND

LEAST 6 INCHES HIGHER THAN

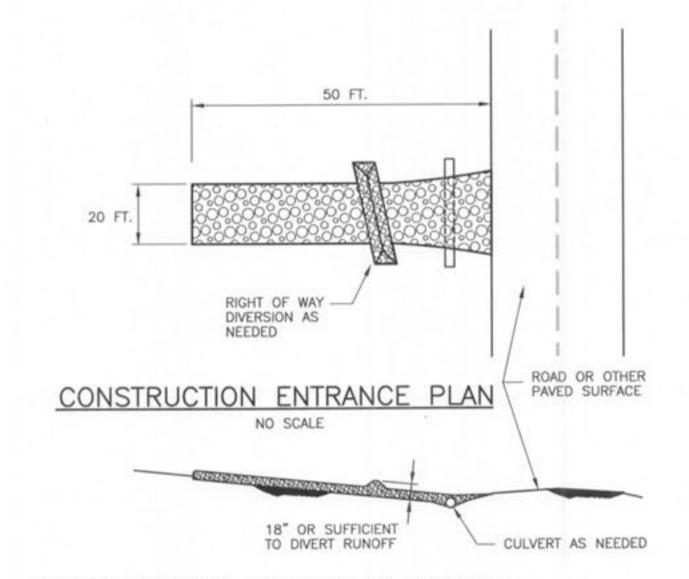
THE SAME POST.

- INLET PROTECTION SHALL BE CONSTRUCTION BEFORE UPSLOPE LAND DISTURBANG BEGINS OR BEFORE THE STORM DRAIN BECOMES
- THE EARTH AROUND THE INLET SHALL BE EXCAVATED COMPLETELY TO A DEPTH AT LEAST 18 INCHES.
- THE WOODEN FRAME SHALL BE CONSTRUCTED OF 2-BY-4-IN. CONSTRUCTION-GRADE LUMBER. THE 2-BY-4-IN. POSTS SHALL BE DRIVEN 1 FT. INTO THE GROUND AT FOUR CORNERS OF AND THE TOP PORTION FRAME ASSEMBLED USING OVERLAP JOINT SHOWN. THE TOP OF THE FRAME SHALL BE AT LEAST 6 INCHES BELOW ADJACENT ROADS IF PONDED WATER WOULD POSE A SAFETY HAZARD TO TRAFFIC.
- . WIRE MESH SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT FABRIC WITH WATER FULLY IMPOUNDED AGAINST IT. IT SHALL BE STRETCHED TIGHTLY AROUND THE FRAME AND FASTENED SECURELY TO THE FRAME.
- SILT FENCE SHALL BE CONSTRUCTED BEFORE UPSLOPE LAND DISTURBANCE BEGINS.
- ALL SILT FENCE SHALL BE PLACED AS CLOSE TO THE CONTOUR AS POSSIBLE SO THAT WATER WILL NOT CONCENTRATE AT LOW POINTS IN THE FENCE AND SO THAT SMALL SWALES OR DEPRESSIONS WHICH MAY CARRY SMALL CONCENTRATED FLOWS TO THE SILT FENCE ARE DISSIPATED ALONG ITS LENGTH.
- TO PREVENT WATER PONDED BY THE SILT FENCE FROM FLOWING AROUND THE ENDS, EACH END SHALL BE CONSTRUCTED UPSLOPE SO THAT THE ENDS ARE AT A HIGHER ELEVATION.
- WHERE POSSIBLE, SILT FENCE SHALL BE PLACED ON THE FLATTEST AREA AVAILABLE.
- WHERE POSSIBLE, VEGETATION SHALL BE PRESERVED FOR 5 FT. (OR AS MUCH AS POSSIBLE) UPSLOPE FROM THE SILT FENCE. IF VEGETATION IS REMOVED, IT SHALL BE REESTABLISHED WITHIN 7 DAYS FROM THE INSTALLATION OF THE SILT FENCE.
- THE HEIGHT OF THE SILT FENCE SHALL BE A MIN. OF 16 IN. ABOVE THE ORIGINAL GROUND SURFACE.
- THE SILT FENCE SHALL BE PLACED IN A TRENCH CUT A MIN. OF 6 IN. DEEP. THE TRENCH SHALL BE CUT WITH A TRENCHER. CABLE LAYING MACHINE, OR OTHER SUITABLE DEVICE WHICH WILL ENSURE AN ADEQUATELY UNIFORM TRENCH DEPTH.
- SILT FENCE FABRIC (SEE CHART BELOW): FABRIC PROPERTIES VALUES 90 LB. MINIMUM
- TEST METHOD ASTM D 1682 GRAB TENSILE STRENGTH MULLEN BURST STRENGTH 190 PSI MINIMUM ASTM D 3786 0.3 GAL./MIN./F2 MAXIMUM ASTM D 3786 SLURRY FLOW RATE US STD. SIEVE CW-02215 EQUIVALENT OPEN 40-80 TION STABILITY ASTM-G-26 ULTRAVIOLET 90% MINIMUM



NO SCALE

NO SCALE



## CONSTRUCTION ENTRANCE PROFILE NO SCALE

STONE SIZE -- TWO-INCH STONE SHALL BE

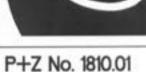
- USED, OR RECYCLED CONCRETE PAVEMENT. LENGTH--THE CONSTRUCTION ENTRANCE
- SHALL BE AS LONG AS REQUIRED TO STABILIZE HIGH TRAFFIC AREAS BUT NOT LESS THAN 50 FT. (EXCEPT ON SINGLE RESIDENCE LOT WHERE A 30 FT. MINIMUM LENGTH APPLIES).
- THICKNESS--THE STONE LAYER SHALL BE AT LEAST 6-IN. THICK.
- WIDTH--THE ENTRANCE SHALL BE AT LEAST 20-FT. WIDE.
- BEDDING -- A GEOTEXTILE SHALL BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE. IT SHALL HAVE A GRAB TENSILE STRENGTH OF AT LEAST 200 LB. AND A MULLED BURST STRENGTH OF AT LEAST 190
- 6. CULVERT -- A PIPE OR CULVERT SHALL BE CONSTRUCTED UNDER THE ENTRANCE IF NEEDED TO PREVENT SURFACE WATER FLOWING ACROSS THE ENTRANCE FROM BEING DIRECTED OUT ONTO PAVED SURFACES.
- WATER BAR--A WATER BAR SHALL BE CONSTRUCTED AS PART OF THE CONSTRUCTION ENTRANCE IF NEEDED TO PREVENT SURFACE RUNOFF FROM FLOWING THE LENGTH OF THE CONSTRUCTION ENTRANCE AND OUT ONTO PAVED SURFACES.
- MAINTENANCE -- TOP DRESSING OF ADDITIONAL STONE SHALL BE APPLIED AS CONDITIONS DEMAND. MUD SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC ROADS, OR ANY SURFACE WHERE RUNOFF IS NOT CHECK BY SEDIMENT CONTROLS, SHALL BE REMOVED IMMEDIATELY, REMOVAL SHALL BE ACCOMPLISHED BY SCRAPING OR SWEEPING.
- . CONSTRUCTION ENTRANCES SHALL NOT BE RELIED UPON TO REMOVE MUD FROM VEHICLES AND PREVENT OFF-SITE TRACKING. VEHICLES THAT ENTER AND LEAVE THE CONSTRUCTION-SITE SHALL BE RESTRICTED FROM MUDDY AREAS.



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ENGINEER SIGNATURE

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