



MDACTION DEOU	GRADI	NG AND D	RAINAGE NO	TES:		
ELOW PAVED OR C	ONCRETE AREAS	95%				
AND BLANKET BAC	KFILL	95%				
ELOW LOAM AND S	EED AREAS OF COMPACTION SH	90% ALL BE OF 7	THE MAXIMUM	DRY DENSITY A	AT THE OPTIMUM	
DISTURE CONTENT ELD DENSITY TES	AS DETERMINED AN S SHALL BE MADE I	ND CONTRO	OLLED IN ACCO ANCE WITH AS	RDANCE WITH TM D-1556 OR	ASTM D-1557, METHOL ASTM-2922.	
L STORM DRAINA	GE PIPES SHALL BE I	HIGH DENS	ITY POLYETHYI	LENE (HANCOR	HI-Q, ADS N-12 OR	
EE UTILITY PLAN F	OR ALL SITE UTILITY	INFORMAT	TION.			
DJUST ALL MANHOLES, CATCH BASINS, CURB BOXES, ETC. WITHIN LIMITS OF WORK TO FINISH GRADE. CONTRACTOR SHALL PROVIDE A FINISH PAVEMENT SURFACE AND LAWN AREAS FREE OF LOW SPOTS AND ONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCES, EXITS, RAMPS AND LOADING DOCK						
REAS ADJACENT TO ONTRACTOR SHAL	D THE BUILDING. THOROUGHLY CLEA	AN ALL CAT	CH BASINS AN	D DRAIN LINES	. WITHIN THE LIMIT OF	
'ORK, OF SEDIMENT IMMEDIATELY UPON COMPLETION OF CONSTRUCTION. LL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL STATE AND LOCAL						
LE MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE AND LOCAL ODES. ODES. IL DISTURRED AREAS NOT TO BE DAVED OD OTHEDWISE TREATED SHALL DECEIVE OF LOAM, SEED						
RTILIZER AND MU	LAS NOT TO BE PAVE LCH.	LD OR OTHE	LKWISE IREAH	ED SHALL RECE	IVE 6" LOAM, SEED	
LL STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NHOOT STANDARD SPECIFICATIONS FOR HIGHWAYS AND BRIDGES, LATEST EDITION.						
ALL PROPOSED CATCH BASINS SHALL BE EQUIPPED WITH OIL/GAS SEPARATOR HOODS AND 4' SUMPS. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM WITH APPLICABLE FEDERAL, STATE AND CITY OF						
CONCORD DEPARTMENT OF PUBLIC WORKS AND CONSTRUCTION SPECIFICATIONS, LATEST REVISIONS.						
IE LOCATIONS OF	EXISTING UNDERGE	UTILITY ROUND UTII	<u>NOTES:</u> LITIES ARE APP	ROXIMATE ANT	) THE LOCATIONS ARE	
DT GUARANTEED E	Y THE OWNER OR E	NGINEER. I' REPAIR FX	T IS THE CONT	RACTOR'S RES	PONSIBILITY TO LOCAT CATE EXISTING UTILIT	
EQUIRED TO COMP	LETE THE WORK AT	NO ADDITI	ONAL COST TO	THE OWNER.	CHE ENDING UILII	
ORDINATE ALL U	ORK WITHIN PUBLIC	C RIGHT OF	WAYS WITH T	HE CITY OF CO	NCORD.	
L ELECTRICAL MA DITION, AND ALL A	TERIAL WORKMANSI PPLICABLE STATE A	HIP SHALL ( ND LOCAL (	CONFORM TO T CODES.	HE NATIONAL I	ELECTRIC CODE, LATES	
HE EXACT LOCATIO	ON OF NEW UTILITY S	SERVICES A	AND CONNECTI Y COMPANIES	ONS SHALL BE	COORDINATED WITH T	
DJUST ALL MANHO	LES, CATCH BASINS	, CURB BOX	KES, ETC. WITH	IN LIMITS OF	WORK TO FINISH GRAD	
E ONDERGROUND	HALL OBTAIN, PAY F	FOR, AND C	OMPLY WITH A	LL REQUIRED P	PERMITS, ARRANGE FOR	
LL INSPECTIONS, AND SUBMIT COPIES OF ACCEPTANCE CERTIFICATES TO THE OWNER PRIOR TO THE COMPLETION OF THIS PROJECT.						
IE CONTRACTOR S ATES, AND OTHER	HALL PROVIDE AND MISCELLANEOUS IT	INSTALL AI FEMS NOT N	LL MANHOLES, NECESSARILY D	BOXES, FITTIN DETAILED ON TH	GS, CONNECTORS, CONHESE DRAWINGS TO	
ENDER INSTALLATI IE CONTRACTOR S	ON OF UTILITIES CO	OMPLETE AN G-SAFE" 72	ND OPERATION HOURS PRIOR	AL. TO COMMENCI	NG CONSTRUCTION. TH	
	HAVE THE "DIG-SA	FE" NUMBE	R ON SITE AT	ALL TIMES.		
ONTRACTOR SHALL		CONCEPTIO		DENIGUL DAMOUL	TOP ALL PROPOSED	
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SCALE IN FEET

40'

GRAPHIC SCALE

## ----- APPROXIMATE SAWCUT LINE

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339.65 **—×** 

(339.20) —🗙

PROPERTY LINE

## - - - APPROXIMATE LIMIT OF WORK

□ PROPOSED STEEL FENCE WITH ORNAMENTAL BRICK MASONRY PIERS

### PROPOSED CONTOUR (MINOR)

PROPOSED CONTOUR (MAJOR)

PROPOSED DRAIN LINE

#### PROPOSED PERFORATED UNDERDRAIN

PROPOSED SILT SOCK

## PROPOSED UNDERGROUND

ELECTRIC/COMMUNICATIONS CONDUIT EXISTING STEEL FENCE WITH ORNAMENTAL MASONRY PIERS

### EXISTING LIGHT POLE

EXISTING UTILITY POLE WITH GUY WIRE

PROPOSED BOLLARD

# PROPOSED FIRE ALARM PEDESTAL

PROPOSED CONC PAD WITH GATE MOTOR

## EXISTING CATCH BASIN

EXISTING DRAIN MANHOLE

EXISTING SEWER MANHOLE

## EXISTING TELEPHONE MANHOLE

PROPOSED ELECTRIC PULL BOX

### PROPOSED CATCH BASIN

PROPOSED DRAIN MANHOLE

## PROPOSED YARD DRAIN

## PROPOSED INLET PROTECTION BARRIER

PROPOSED SPOT GRADE

#### EXISTING SPOT GRADE

PROPOSED SLOPE DIRECTION

S=0.56% PDMH7-R=339.50 INV.IN=333.70 SW INV.IN=333.70 E INV.OUT=333.60 N CONST. 33 LF 12" HDPE-S=0.61% PCB11-R=338.75 INV.IN=334.00 SW INV.OUT=333.90 NE CONST. 103 LF 12" HDPE S=1.46% R=339.73' =335.5' 12"RCP (P164) CONNECT TO EXISTING UTILITY POLE (COORD. UTIL. COMPANY) CONST. 25' – CORE INTO EXISTING STRUCTURE VEGETATED FILTER STRIP TO ACCEPT NEW INV. R:339.73 INV.OUT=335.50 NE (TYP.) CONST. – RIP-RAP APRON (TYP. OF 3) CONST. ELECTRICAL CONDUIT -(COORD. W/ OWNER & -340.60 UTIL. COMPANY) -340.70 Blodgett St. PYD2-R:338.75 CONST. RAIN GARDEN #1 (SEE DETAIL) 340.85 338.55 -(VIF) CONST. ELECTRICAL CONDUIT (1) 3" SCH .80 RESET RIM AS REQUIRED (TYP.) PCB7-R:338.50 CONST. ELECTRIC PULL BOX (TYP.) CONST. 51 LF 12" PVC-(SEE ELEC. SITE PLAN S**≓0.5**9% 340.90 1.3% 339.65 PYD3-CONST. 13 LF 12" PVC 341.00 R:338.75 S=0.77% LCONST? ELECTRICAL 3.*3*% CONDUIT

PCB9-

340.00

J.

340.70

S=0.83%

S=0.61%

MP/SCK/NSC

- R=338.7

(P141)

R:341.00 PINV.IN=332.20 S

INV.IN=334.90 NE

-PDMH4 R:339.10

CONST 18 LF 12" HDPE

=334.0' 12"HDPE

=334.0 12"HDPE

-CONST. 33 LF 12" HDPE

РСВ5

R:340.30

(VIF)

JEER/ARCHITEC

s=0.55%

340.35

S=0.53%

(P158)

15"3REF

R=338.75

INV.OUT=333.90 W

CONST. 36 LF 12" HDPE-

# CONNECT TO EXISTING GAS MAIN **R:338.30** (COORD. W/ UTIL. COMPANY)

PDMH6-R:337.90 (VERIFY EXISTING INVERTS IN FIELD) RECONSTRUCT EXISTING-DRAIN LINE AS REQUIRED FOR

### CONSTRUCTION OF PDMH6 CONST. 21 LF 12" PVC-S=0,95%

CONST./39 LF 12" PVC-S=0.77%g 338.50 -ÇONŞT. RAIN-/ GARDEN #3/ (SEE DETAIL)

# 4 338.70 -(VIF) X

¢onst. –∕ GRASS SWALE (TYP.)

#### – R=338.10' =329.6' 15"RCP (P189) =329.5' 18"RCP (P143) =331.9' 12"HDPE / (P194)

РСВ8

-PYD4

R:337.75

-338.20

338.70 J

(VIF)

R:338.50

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CONST. GAS

C:341.3

C: 341.85

C:341.35

339.50

HAND HOLD (TYP.)

339.35 /

1.6%

° <sub>CONST.</sub> L

PCB6-

R:338.80

TELEPHONE

LINE (TYP.)

Q.0%

ROOF DRAIN-

CONST. 29 LF 6/ PVC-

1.7% ₩1

L338.65 (VIF)

S=/2.07%

INV=335.50 SW









GENERAL PROJECT INFORMATION         PROJECT OWNER:       STATE OF NEW HAMPSHIRE ADJUTANT GENERAL'S DEPARTMENT - FM         1 MINUTEMAN WAY       CONCORD, NEW HAMPSHIRE 03302-0483         PROJECT NAME:       SMR ANTI-TERRORISM/FORCE PROTECTION & ENTRY CONTROL POINT UPGRADE         PROJECT ADDRESS:       4 PEMBROKE ROAD         CONCORD, NEW HAMPSHIRE 03301         PROJECT LATITUDE:       43° - 12' - 40"N         PROJECT LONGITUDE:       71° - 30' - 47"W	<ul> <li>B. SEEDING: <ul> <li>a. UTILIZE ANNUAL RYE GRASS AT A RATE OF 40 LBS/ACRE;</li> <li>b. WHERE THE SOIL HAS BEEN COMPACTED BY CONSTRUCTION OPERATIONS, LOOSEN SOIL TO A DEPTH OF TWO (2) INCH BEFORE APPLYING FERTILIZER, LIME AND SEED;</li> <li>c. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, OR HYDROSEEDER (SLURRY INCLUDING SEED AND FERTILIZER). HYDROSEEDINGS, WHICH INCLUDE MULCH, MAY BE LEFT ON SOIL SURFACE. SEEDING RATES MUST BE INCREASED 109 WHEN HYDROSEEDING;</li> </ul> </li> <li>C. MAINTENANCE: <ul> <li>a. TEMPORARY SEEDING SHALL BE PERIODICALLY INSPECTED. AT A MINIMUM, 95% OF THE SOIL SURFACE SHOULD BE COVERED BY VEGETATION. IF ANY EVIDENCE OF EROSION OR SEDIMENTATION IS APPARENT, REPAIRS SHALL BE MADI AND OTHER TOP ADD AND AND AND AND AND AND AND AND AND</li></ul></li></ul>
PROJECT DESCRIPTION THE PROJECT INCLUDES THE RECONSTRUCTION OF THE SITE ENTRANCE AND RELOCATION OF GUARDHOUSE WITH ASSOCIATED SITE IMPROVEMENTS. THE PROJECT ALSO INCLUDES OTHER VARIOUS SITE IMPROVEMENTS SUCH AS FENCING, GATES, AND GUEST PARKING AREA.	AND OTHER TEMPORARY MEASURES USED IN THE INTERIM (MULCH, FILTER BARRIERS, CHECK DAMS, ETC.). 2. VEGETATIVE PRACTICE: A. FOR PERMANENT MEASURES AND PLANTINGS: a. LIMESTONE SHALL BE THOROUGHLY INCORPORATED INTO THE LOAM LAYER AT A RATE OF THREE (3) TONS PER ACRE I ORDER TO PROVIDE A PH VALUE OF 5.5 TO 6.5;
DISTURBED AREA THE TOTAL AREA TO BE DISTURBED IS APPROXIMATELY 7.1 ACRES. SOIL CHARACTERISTICS BASED ON THE SITE SPECIFIC SOIL SURVEY CONDUCTED BY TIGHE & BOND. THE SOILS ON SITE CONSISTS OF A WINDSOR LOAMY	<ul> <li>b. FERTILIZER SHALL BE SPREAD ON THE TOP LAYER OF LOAM AND WORKED INTO THE SURFACE. FERTILIZER APPLICATIC RATE SHALL BE 800 POUNDS PER ACRE OF 10-20-20 FERTILIZER;</li> <li>c. SOIL CONDITIONERS AND FERTILIZER SHALL BE APPLIED AT THE RECOMMENDED RATES AND SHALL BE THOROUGHLY WORKED INTO THE LOAM. LOAM SHALL BE RAKED UNTIL THE SURFACE IS FINELY PULVERIZED, SMOOTH AND EVEN, A THEN COMPACTED TO AN EVEN SURFACE CONFORMING TO THE REQUIRED LINES AND GRADES WITH APPROVED ROLLE</li> </ul>
SAND AND AN UDORTHENTS/URBAN LAND COMPLEX. THESE SOILS ARE VERY WELL DRAINED AND HAVE A HYDROLOGIC SOIL GROUP RATING OF A. <u>NAME OF RECEIVING WATERS</u> THE STORMWATER RUNOFF FROM THE SITE WILL BE COLLECTED IN A CLOSED DRAINAGE SYSTEM PRIOR TO DISCHARGING TO AN	<ul> <li>WEIGHING BETWEEN 4-1/2 POUNDS AND 5-1/2 POUNDS PER INCH OF WIDTH;</li> <li>d. SEED SHALL BE SOWN AT THE RATE SHOWN BELOW. SOWING SHALL BE DONE ON A CALM, DRY DAY, PREFERABLY BY MACHINE, BUT IF BY HAND, ONLY BY EXPERIENCED WORKMEN. IMMEDIATELY BEFORE SEEDING, THE SOIL SHALL BE LIGHTLY RAKED. ONE HALF THE SEED SHALL BE SOWN IN ONE DIRECTION AND THE OTHER HALF AT RIGHT ANGLES TO THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED THE ORIGINAL DIRECTION. IT SHALL BE LIGHTLY RAKED INTO THE SOIL TO A DEPTH NOT OVER 1/4 INCH AND ROLLED THE ORIGINAL DIRECTION.</li> </ul>
<ul> <li>OFFSITE CLOSED DRAINAGE SYSTEM ON PEMBROKE ROAD.</li> <li><u>CONSTRUCTION SEQUENCE OF MAJOR ACTIVITIES:</u></li> <li>1. CUT AND CLEAR TREES.</li> <li>2. CONSTRUCT TEMPORARY AND PERMANENT SEDIMENT, EROSION AND DETENTION CONTROL FACILITIES. EROSION, SEDIMENT AND DETENTION MEASURES SHALL BE INSTALLED PRIOR TO ANY EARTH MOVING OPERATIONS THAT WILL INFLUENCE STORMWATER RUNOFF SUCH AS:</li> </ul>	<ul> <li>WITH A HAND ROLLER WEIGHING NOT OVER 100 POUNDS PER LINEAR FOOT OF WIDTH;</li> <li>e. HAY MULCH SHALL BE APPLIED IMMEDIATELY AFTER SEEDING AS INDICATED ABOVE;</li> <li>f. THE SURFACE SHALL BE WATERED AND KEPT MOIST WITH A FINE SPRAY AS REQUIRED, WITHOUT WASHING AWAY THE SOIL, UNTIL THE GRASS IS WELL ESTABLISHED. ANY AREAS WHICH ARE NOT SATISFACTORILY COVERED WITH GRASS SHALL BE RESEEDED, AND ALL NOXIOUS WEEDS REMOVED;</li> <li>g. THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE SEEDED AREAS UNTIL ACCEPTED;</li> <li>b. A GRASS SEED MIXTURE CONTAINING THE FOLLOWING SEED REQUIREMENTS SHALL BE APPLIED AT THE INDICATED R.</li> </ul>
<ul> <li>NEW CONSTRUCTION</li> <li>DEVELOPMENT OF BORROW PIT AREAS</li> <li>DISPOSAL OF SEDIMENT SPOIL, STUMP AND OTHER SOLID WASTE</li> <li>CONTROL OF DUST</li> <li>CONSTRUCTION OF ACCESS AND HAUL ROAD</li> </ul>	SEED MIX         RED FESCUE (CREEPING)       50 LBS/AC         KENTUCKY BLUEGRASS       100 LBS/AC         PERENNIAL RYE GRASS       50 LBS/AC         IN NO CASE SHALL THE WEED CONTENT EXCEED ONE (1) PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH STATE
<ul> <li>NEARNESS OF CONSTRUCTION SITE TO RECEIVING WATERS</li> <li>CONSTRUCTION DURING LATE WINTER AND EARLY SPRING</li> <li>ALL PERMANENT DITCHES, SWALES, DETENTION, RETENTION AND SEDIMENTATION BASINS TO BE STABILIZED USING THE VEGETATIVE AND NON-STRUCTURAL BMPS PRIOR TO DIRECTING RUNOFF TO THEM.</li> <li>CLEAR AND DISPOSE OF DEBRIS.</li> <li>CONSTRUCT TEMPORARY CHARGE AND DIMERSION CHANNELS AS DECUMPED</li> </ul>	<ul> <li>FEDERAL SEED LAWS. SEEDING SHALL BE DONE NO LATER THAN SEPTEMBER 15. IN NO CASE SHALL SEEDING TAKE PL OVER SNOW.</li> <li>3. DORMANT SEEDING (SEPTEMBER 15 TO FIRST SNOWFALL):</li> <li>A. FOLLOW PERMANENT MEASURES SLOPE, LIME, FERTILIZER AND GRADING REQUIREMENTS. APPLY SEED MIXTURE AT TWIC THE INDICATED RATE. APPLY MULCH AS INDICATED FOR PERMANENT MEASURES.</li> </ul>
<ol> <li>CONSTRUCT TEMPORARY CULVERTS AND DIVERSION CHANNELS AS REQUIRED.</li> <li>GRADE AND GRAVEL ROADWAYS AND PARKING AREAS - ALL ROADS AND PARKING AREA SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.</li> <li>BEGIN PERMANENT AND TEMPORARY SEEDING AND MULCHING. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND MULCHED WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.</li> <li>DALLY OF AS PEOLUPED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, PEDIMETER EROSION CONTROL MEASURES.</li> </ol>	CONCRETE WASHOUT AREA: 1. THE FOLLOWING ARE THE ONLY NON-STORMWATER DISCHARGES ALLOWED. ALL OTHER NON-STORMWATER DISCHARGES AN PROHIBITED ON SITE: A. THE CONCRETE DELIVERY TRUCKS SHALL, WHENEVER POSSIBLE, USE WASHOUT FACILITIES AT THEIR OWN PLANT OR
<ol> <li>BAILY, OR AS REQUIRED, CONSTRUCT TEMPORARY BERMS, DRAINS, DITCHES, PERIMETER EROSION CONTROL MEASURES, SEDIMENT TRAPS, ETC., MULCH AND SEED AS REQUIRED.</li> <li>FINISH PAVING ALL ROADWAYS AND PARKING LOTS.</li> <li>INSPECT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES.</li> <li>COMPLETE PERMANENT SEEDING AND LANDSCAPING.</li> <li>REMOVE TRAPPED SEDIMENTS FROM COLLECTOR DEVICES AS APPROPRIATE AND THEN REMOVE TEMPORARY EROSION CONTROL MEASURES.</li> </ol>	<ul> <li>DISPATCH FACILITY;</li> <li>B. IF IT IS NECESSARY, SITE CONTRACTOR SHALL DESIGNATE SPECIFIC WASHOUT AREAS AND DESIGN FACILITIES TO HANE ANTICIPATED WASHOUT WATER;</li> <li>C. CONTRACTOR SHALL LOCATE WASHOUT AREAS AT LEAST 150 FEET AWAY FROM STORM DRAINS, SWALES AND SURFACE WATERS OR DELINEATED WETLANDS;</li> <li>D. INSPECT WASHOUT FACILITIES DAILY TO DETECT LEAKS OR TEARS AND TO IDENTIFY WHEN MATERIALS NEED TO BE REMOVED.</li> </ul>
SPECIAL CONSTRUCTION NOTES:         1.       THE CONSTRUCTION SEQUENCE MUST LIMIT THE DURATION AND AREA OF DISTURBANCE.         EROSION CONTROL NOTES:       Image: Construction sequence manual volume         1.       ALL EROSION CONTROL MEASURES AND REACTICES SHALL CONFORM TO THE "NEW HAMPSHIRE STORMWATER MANUAL VOLUME	ALLOWABLE NON-STORMWATER DISCHARGES: 1. FIRE-FIGHTING ACTIVITIES; 2. FIRE HYDRANT FLUSHING; 3. WATERS USED TO WASH VEHICLES WHERE DETERGENTS ARE NOT USED;
<ol> <li><u>ALL EROSION CONTROL MEASORED AND TRACTICED SITUL CONTOUR TO THE NEW HAW SITUE STORWARDA WATCH </u></li></ol>	<ol> <li>WATER USED TO CONTROL DUST;</li> <li>POTABLE WATER INCLUDING UNCONTAMINATED WATER LINE FLUSHING;</li> <li>ROUTINE EXTERNAL BUILDING WASH DOWN WHERE DETERGENTS ARE NOT USED;</li> <li>PAVEMENT WASH WATERS WHERE DETERGENTS ARE NOT USED;</li> <li>UNCONTAMINATED AIR CONDITIONING/COMPRESSOR CONDENSATION;</li> <li>UNCONTAMINATED GROUND WATER OR SPRING WATER;</li> <li>FOUNDATION OR FOOTING DRAINS WHICH ARE UNCONTAMINATED;</li> <li>UNCONTAMINATED EXCAVATION DEWATERING;</li> <li>LANDSCAPE IRRIGATION</li> </ol>
<ul> <li>FOR THE DURATION OF THE PROJECT UNTIL NON-PAVED AREAS HAVE BEEN STABILIZED.</li> <li>6. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL TEMPORARY EROSION CONTROL DEVICES UPON COMPLETION OF CONSTRUCTION.</li> <li>7. ALL DISTURBED AREAS NOT OTHERWISE BEING TREATED SHALL RECEIVE 6" LOAM, SEED AND FERTILIZER.</li> <li>8. INSPECT ALL INLET PROTECTION AND PERIMETER CONTROLS WEEKLY AND AFTER EACH RAIN STORM OF 0.25 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY OF FILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/3 THE FILTER HEIGHT.</li> <li>2. CONSTRUCT ON CONTROL DUADWERS ON ALL SUCRES STEEPED THAN 2.1</li> </ul>	<ul> <li>WASTE DISPOSAL:</li> <li>WASTE MATERIAL:         <ul> <li>WASTE MATERIALS</li> <li>ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN SECURELY LIDDED RECEPTACLES. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN A DUMPSTER;</li> <li>NO CONSTRUCTION WASTE MATERIALS SHALL BE BURIED ON SITE;</li> <li>ALL PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL BY THE</li> </ul> </li> </ul>
<ul> <li>9. CONSTRUCT EROSION CONTROL BLANKETS ON ALL SLOPES STEEPER THAN 3: 1.</li> <li><u>STABILIZATION:</u></li> <li>1. AN AREA SHALL BE CONSIDERED STABLE WHEN ONE OF THE FOLLOWING HAS OCCURRED: <ul> <li>A. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED;</li> <li>B. A MINIMUM OF 85% VEGETATED GROWTH HAS BEEN ESTABLISHED;</li> <li>C. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIPRAP HAS BEEN INSTALLED;</li> <li>D. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED.;</li> <li>E. IN AREAS TO BE PAVED, "STABLE" MEANS THAT BASE COURSE GRAVELS MEETING THE REQUIREMENTS OF MASSDOT</li> </ul> </li> </ul>	<ul> <li>SUPERINTENDENT.</li> <li>HAZARDOUS WASTE: <ul> <li>A. ALL HAZARDOUS WASTE MATERIALS SHALL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATIO OR BY THE MANUFACTURER;</li> <li>B. SITE PERSONNEL SHALL BE INSTRUCTED IN THESE PRACTICES BY THE SUPERINTENDENT.</li> </ul> </li> <li>SANITARY WASTE: <ul> <li>A. ALL SANITARY WASTE SHALL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF ONCE PER WEEK BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR.</li> </ul> </li> </ul>
<ul> <li>STANDARD FOR ROAD AND BRIDGE CONSTRUCTION, 2016, HAVE BEEN INSTALLED.</li> <li>2. WINTER STABILIZATION PRACTICES: <ul> <li>A. ALL PROPOSED VEGETATED AREAS THAT DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED BY SEEDING AND INSTALLING EROSION CONTROL BLANKETS ON SLOPES GREATER THAN 3:1, AND SEEDING AND PLACING 3 TO 4 TONS OF MULCH PER ACRE, SECURED WITH ANCHORED NETTING, ELSEWHERE. THE INSTALLATION OF EROSION CONTROL BLANKETS OR MULCH AND NETTING SHALL NOT OCCUR OVER ACCUMULATED SNOW OR ON FROZEN GROUND AND SHALL BE COMPLETED IN ADVANCE OF THAW OR SPRING MELT EVENTS:</li> </ul> </li> </ul>	<ul> <li>SPILL PREVENTION:         <ol> <li>CONTRACTOR SHALL BE FAMILIAR WITH SPILL PREVENTION MEASURES REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES AT A MINIMUM, CONTRACTOR SHALL FOLLOW THE BEST MANAGEMENT SPILL PREVENTION PRACTICES OUTLINED BELOW.</li> </ol> </li> <li>THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES DURING CONSTRUCTION TO STORMWATER RUNOFF:         <ol> <li>GOOD HOUSEKEEPING - THE FOLLOWING GOOD HOUSEKEEPING PRACTICE SHALL BE FOLLOWED ON SITE DURING CONSTRUCTION:             <ul></ul></li></ol></li></ul>
<ul> <li>B. ALL DITCHES OR SWALES WHICH DO NOT EXHIBIT A MINIMUM OF 85 PERCENT VEGETATIVE GROWTH BY OCTOBER 15, OR WHICH ARE DISTURBED AFTER OCTOBER 15, SHALL BE STABILIZED TEMPORARILY WITH STONE OR EROSION CONTROL BLANKETS APPROPRIATE FOR THE DESIGN FLOW CONDITIONS;</li> <li>C. AFTER NOVEMBER 15, INCOMPLETE ROAD OR PARKING SURFACES, WHERE WORK HAS STOPPED FOR THE WINTER SEASON, SHALL BE PROTECTED WITH A MINIMUM OF 3 INCHES OF CRUSHED GRAVEL PER MASSDOT. OR IF CONSTRUCTION IS TO</li> </ul>	<ul> <li>a. ONLY SUPPRIMENT AMOUNTS OF PRODUCTS TO DO THE JOB SHALL BE STORED ON SITE,</li> <li>b. ALL MATERIALS STORED ON SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR PROPER (ORIGINAL IF POSSIBLE) CONTAINERS AND, IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE;</li> <li>c. MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED;</li> <li>d. THE SITE SUPPRINTENDENT SHALL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS;</li> <li>c. UNSTANCES SUBJECT DAILY ONE ANOTHED UNLESS PROPER USE AND DISPOSAL OF MATERIALS;</li> </ul>
<ul> <li>CONTINUE THROUGH THE WINTER SEASON BE CLEARED OF ANY ACCUMULATED SNOW AFTER EACH STORM EVENT;</li> <li>STABILIZATION SHALL BE INITIATED ON ALL LOAM STOCKPILES, AND DISTURBED AREAS, WHERE CONSTRUCTION ACTIVITY SHALL NOT OCCUR FOR MORE THAN TWENTY-ONE (21) CALENDAR DAYS BY THE FOURTEENTH (14TH) DAY AFTER CONSTRUCTION ACTIVITY HAS PERMANENTLY OR TEMPORARILY CEASED IN THAT AREA. STABILIZATION MEASURES TO BE USED INCLUDE:</li> </ul>	<ul> <li>e. SUBSTANCES SHALL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER,</li> <li>f. WHENEVER POSSIBLE ALL OF A PRODUCT SHALL BE USED UP BEFORE DISPOSING OF THE CONTAINER.</li> <li>B. HAZARDOUS PRODUCTS - THE FOLLOWING PRACTICES SHALL BE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS:</li> <li>a. PRODUCTS SHALL BE KEPT IN THEIR ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE;</li> <li>b. ORIGINAL LABELS AND MATERIAL SAFETY DATA SHALL BE RETAINED FOR IMPORTANT PRODUCT INFORMATION;</li> </ul>
<ul> <li>A. TEMPORARY SEEDING;</li> <li>B. MULCHING.</li> <li>4. WHEN CONSTRUCTION ACTIVITY PERMANENTLY OR TEMPORARILY CEASES WITHIN 100 FEET OF NEARBY SURFACE WATERS OR DELINEATED WETLANDS, THE AREA SHALL BE STABILIZED WITHIN SEVEN (7) DAYS OR PRIOR TO A RAIN EVENT. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN THESE AREAS, SILT FENCES, MULCH BERMS, HAY BALE BARRIERS AND</li> </ul>	<ul> <li>c. SURPLUS PRODUCT THAT MUST BE DISPOSED OF SHALL BE DISCARDED ACCORDING TO THE MANUFACTURER'S RECOMMENDED METHODS OF DISPOSAL.</li> <li>C. PRODUCT SPECIFIC PRACTICES - THE FOLLOWING PRODUCT SPECIFIC PRACTICES SHALL BE FOLLOWED ON SITE: <ul> <li>a. PETROLEUM PRODUCTS:</li> <li>ALL ON SITE VEHICLES SHALL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO</li> </ul> </li> </ul>
<ul> <li>5. DURING CONSTRUCTION, RUNOFF WILL BE DIVERTED AROUND THE SITE WITH EARTH DIKES, PIPING OR STABILIZED CHANNELS WHERE POSSIBLE. SHEET RUNOFF FROM THE SITE WILL BE FILTERED THROUGH SILT FENCES, MULCH BERMS, HAY BALE BARRIERS, OR SILT SOCKS. ALL STORM DRAIN BASIN INLETS SHALL BE PROVIDED WITH FLARED END SECTIONS AND TRASH RACKS. THE SITE SHALL BE STABILIZED FOR THE WINTER BY NOVEMBER 15.</li> <li>6. ALL AREAS SHALL BE STABILIZED WITHIN 45 DAYS OF INITIAL DISTURBANCE.</li> </ul>	<ul> <li>REDUCE LEAKAGE;</li> <li>PETROLEUM PRODUCTS SHALL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT BASED SUBSTANCES USED ON SITE SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS.</li> <li>b. FERTILIZERS:</li> <li>FERTILIZERS USED SHALL BE APPLIED ONLY IN THE MINIMUM AMOUNTS DIRECTED BY THE SPECIFICATIONS:</li> </ul>
<ul> <li>DUST CONTROL:</li> <li>1. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL DUST THROUGHOUT THE CONSTRUCTION PERIOD.</li> <li>2. DUST CONTROL METHODS SHALL INCLUDE, BUT BE NOT LIMITED TO SPRINKLING WATER ON EXPOSED AREAS, COVERING LOADED DUMP TRUCKS LEAVING THE SITE, AND TEMPORARY MULCHING.</li> <li>3. DUST CONTROL MEASURES SHALL BE UTILIZED SO AS TO PREVENT THE MIGRATION OF DUST FROM THE SITE TO ABUTTING AREAS INCLUDING BUT NOT LIMITED TO QUARRY STREET.</li> </ul>	<ul> <li>ONCE APPLIED FERTILIZER SHALL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORMWATER;</li> <li>STORAGE SHALL BE IN A COVERED SHED OR ENCLOSED TRAILERS. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER SHALL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.</li> <li>C. PAINTS: <ul> <li>ALL CONTAINERS SHALL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE;</li> <li>EXCESS PAINT SHALL NOT BE DISCHARGED TO THE STORM SEWER SYSTEM;</li> <li>FXCESS PAINT SHALL BE DISPOSED OF PROPERLY ACCORDING TO MANUFACTURER'S INSTRUCTIONS OF STATE AND</li> </ul> </li> </ul>
<ul> <li>STOCKPILES:</li> <li>1. LOCATE STOCKPILES A MINIMUM OF 50 FEET AWAY FROM CATCH BASINS, SWALES, AND CULVERTS.</li> <li>2. ALL STOCKPILES SHOULD BE SURROUNDED WITH TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE ONSET OF PRECIPITATION.</li> <li>3. PERIMETER BARRIERS SHOULD BE MAINTAINED AT ALL TIMES, AND ADJUSTED AS NEEDED TO ACCOMMODATE THE DELIVERY AND REMOVAL OF MATERIALS FROM THE STOCKPILE. THE INTEGRITY OF THE BARRIER SHOULD BE INSPECTED AT THE END OF EACH WORKING DAY.</li> <li>4. PROTECT ALL STOCKPILES FROM STORMWATER RUN-OFF USING TEMPORARY EROSION CONTROL MEASURES SUCH AS BERMS, SILT SOCK, OR OTHER APPROVED PRACTICE TO PREVENT MIGRATION OF MATERIAL BEYOND THE IMMEDIATE CONFINES OF THE STOCKPILES.</li> </ul>	<ul> <li>D. SPILL CONTROL PRACTICES - IN ADDITION TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSE IN THE PREVIOUS SECTION, THE FOLLOWING PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:</li> <li>a. MANUFACTURER'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SF BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES;</li> <li>b. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON SIT EQUIPMENT AND MATERIALS SHALL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE;</li> <li>c. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY;</li> <li>d. THE SPILL AREA SHALL BE KEPT WELL VENTILATED AND PERSONNEL SHALL WEAR APPROPRIATE PROTECTIVE CLOTHIN</li> </ul>
OFF SITE VEHICLE TRACKING:         1. THE CONTRACTOR SHALL CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE(S) PRIOR TO ANY EXCAVATION ACTIVITIES.         VEGETATION:         1. TEMPORARY GRASS COVER:         A. SEEDBED PREPARATION:         a. APPLY FERTILIZER AT THE RATE OF 600 POUNDS PER ACRE OF 10-10-10. APPLY LIMESTONE (EQUIVALENT TO 50 PERCENT         CALCHM PLUS MACONESUM ONDED AT A DATE OF TUPEE (2) TONS PER ACRE.	<ul> <li>a. THE STREE AREA STREET BE RELET WELL VERTILATED AND TERSONNEL STREET WEAR ATTROTATE TROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE;</li> <li>e. SPILLS OF TOXIC OR HAZARDOUS MATERIAL SHALL BE REPORTED TO THE APPROPRIATE LOCAL, STATE OR FEDERAL AGENCIES AS REQUIRED;</li> <li>f. THE SITE SUPERINTENDENT RESPONSIBLE FOR DAY-TO-DAY SITE OPERATIONS SHALL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR.</li> <li>E. VEHICLE FUELING AND MAINTENANCE PRACTICE:</li> <li>a. CONTRACTOR SHALL MAKE AN EFFORT TO PERFORM EQUIPMENT/VEHICLE FUELING AND MAINTENANCE AT AN OFF-SITI</li> </ul>
CALCIUM PLUS MAGNESIUM OXIDE) AT A RATE OF THREE (3) TONS PER ACRE;	FACILITY; b. CONTRACTOR SHALL PROVIDE AN ON-SITE FUELING AND MAINTENANCE AREA THAT IS CLEAN AND DRY; c. IF POSSIBLE THE CONTRACTOR SHALL KEEP AREA COVERED; d. CONTRACTOR SHALL KEEP A SPILL KIT AT THE FUELING AND MAINTENANCE AREA;
	C F VERY HOUSE
	ERADLEE MEZQUITA No. C9830 CENSED CENSED

#### OF 40 LBS/ACRE;

#### 100 LBS/AC 50 LBS/AC

EXCEED ONE (1) PERCENT BY WEIGHT. ALL SEED SHALL COMPLY WITH STATE AND E DONE NO LATER THAN SEPTEMBER 15. IN NO CASE SHALL SEEDING TAKE PLACE SNOWFALL):

TO GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED PRACTICES SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP: ODS FOR SPILL CLEANUP SHALL BE CLEARLY POSTED AND SITE PERSONNEL SHALL ND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES; FOR SPILL CLEANUP SHALL BE KEPT IN THE MATERIAL STORAGE AREA ON SITE. LUDE BUT NOT BE LIMITED TO BROOMS, DUSTPANS, MOPS, RAGS, GLOVES, AND PLASTIC OR METAL TRASH CONTAINERS SPECIFICALLY FOR THIS



NEWA

JOSEPH

PERSECHINO

No. 12389

EROSION CONTROL OBSERVATIONS AND MAINTENANCE PRACTICES THIS PROJECT EXCEEDS ONE (1) ACRE OF DISTURBANCE AND THUS REQUIRES A SWPPP. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SWPPP AND KEEP AN UPDATED COPY OF THE SWPPP ONSITE AT ALL TIMES.

THIS PROJECT:

WEEK OR WITHIN 24 HOURS OF A STORM 0.25 INCHES OR GREATER: 2. AN OBSERVATION REPORT SHALL BE MADE AFTER EACH OBSERVATION AND DISTRIBUTED TO THE ENGINEER, THE OWNER, AND

THE CONTRACTOR; 3. A REPRESENTATIVE OF THE SITE CONTRACTOR, SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIR ACTIVITIES;

IDANGERED SPECIES NOT

THE PROJECT IS LOCATED WITHIN THE NORTHERN LONG-EARED BAT RANGE. CUTTING AND CLEARING OF TREES SHALL NOT OCCUR BE RAKED UNTIL THE SURFACE IS FINELY PULVERIZED, SMOOTH AND EVEN, AND IN JUNE OR JULY TO PROTECT POTENTIAL NORTHERN LONG-EARED BAT ROOSTING AREAS.









![](_page_7_Figure_0.jpeg)