EXISTING SITE CONDITIONS.
THIS SITE IS OURREPILTY A CLEARED VACANT LOT. THE CURRENT SITE TOPOGRAPHY GENERALLY DRAWS RIGHTS FROM MORTH TO SOUTH. THE DRAWAGE SHED CONVEYS RUNOFF TO THE RAILROAD TRACKS SOUTH OF CHAPMAN AVENUE SM.

<u>Adjacent areas</u>
This site is bordered by Chapman avenue to the south, a commercial property to the morth. A light-modistral property to the east, and 20th street sw to the west.

CESTIE AREAS
NO OFFSITE AREAS ARE COVERED WITH THIS PLAN. ANY OFFSITE AREAS REQUIRED FOR EARTHWORK
OPERATIONS SHALL BE FROM A PERMITTED SITE AND THE CONTRACTOR SHALL NOTIFY THE CITY OF

Sous. Supponation is based on an inspection of the USDA NEW SOIL Survey and has not been field verified. The onsite soils are indicated to be as follows:

CHISWELL SOIL.
HIDROLOGIC SOIL GROUP: D
DEPTH TO RESTRICTIVE FEATURE: 10-20 INCHES TO PARALITHIC BEDROCK
DEPTH TO WAITER TABLE: MORE THAN 80 INCHES
DRAMAGE CASS: WELL DRAMAGE OF THE TABLE TABLE.

AVAILABLE WATER CAPACITY. VERY LOW (ABOUT 1.0 INCHES)
SOUL PROFILE: OT 0.2 INCHES: CHANNERY SLT LOAM, 2 TO 12 INCHES: VERY CHANNERY SLT LOAM,
12 TO 22 INCHES: BEDROOK.

LITZ SOIL:
HIDROLOGIC SOIL GROUP: C
DEPTH TO RESTRICTIVE FEATURE: 20—40 INCHES TO PARALITHIC BEDROCK
DEPTH TO WATER TABLE: MORE THAN 80 INCHES
DRAWANGE CLASS: WELL DRAWANGE.

AVAILABLE MATER CAPACITY. LOW (ABOUT 3.3 INCHES)
SOIL PROFILE: 0 TO 5 INCHES: CHANNERY SILT LOAM, 5 TO 24 INCHES: VERY CHANNERY SILT LOAM, 24 TO 34 INCHES: BEDROCK.

CRITICAL AREAS.
THE CONTRACTOR SHALL TAKE SPECIAL CARE TO INSURE THAT SEDIMENT IS NOT ALLOHED TO FLOW
INTO THE EXISTING DOWNSTREAM STORM DRAIN. EMSURE THAT ALL ESC MEASURES ARE STABILIZED
AND FIRM/TIONING TO MINIMAZE THE POTENTIAL FOR ANY SEDIMENT LEXING THE SITE.

MINIMUM STANDARDS REFER TO DEQ MINIMUM STANDARDS.

## EROSION AND SEDIMENT CONTROL MEASURES

 $\begin{array}{ll} \textbf{CONSTRUCTION ENTRANCE} \; (3.02) \; - \; \textbf{A} \; \textbf{STONE} \; \; \textbf{CONSTRUCTION ENTRANCE} \; \textbf{WILL} \; \; \textbf{BE} \; \textbf{INSTALLED} \; \; \textbf{TO} \\ \textbf{MINIMIZE} \; \textbf{THE} \; \; \textbf{AMOUNT OF} \; \; \textbf{MUD} \; \; \textbf{TRANSPORTED} \; \; \textbf{INTO EXISTING ROADS}. \end{array}$ CONSTRUCTION ROAD STABILIZATION (3.03) — TO REDUCE THE EROSION AND SUBSEQUENT REGRADING OF PERMANENT DRIVE AREAS BETWEEN THE TIME OF INITIAL GRADING AND FINAL STABILIZATION, THESE ROADS WILL BE TEMPORANTLY STABILIZED WITH STONE INMEDIATELY AFFE (RADING.)

 $\underline{\text{SLT FENCE }(3.05)} - \underline{\text{SLT FENCE}} \ \text{will be installed at the lower ends of the project site to intercept sediment laden run-off prior to exting the site.}$ 

TEMPCRARY DIVERSION DIKE (3.09) — A TEMPORARY RIDGE OF COMPACTED SOIL WILL BE CONSTRUCTED TO DIVERT UPSLOPE RUNOFF AWAY FROM A DISTURBED AREA, AND/OR TO DIVERT SEDIMENT LADEN RUNOFF FROM A DISTURBED AREA TO A SEDIMENT TRAPPING MEASURE.

TRANSPORARY SEEDING (1,31) — TEMPORARY SEEDING SHALL BE APPLIED TO TEMPORARY DIVERSION DIVES, TOPSOIL, STOCKPILES, MO ALL ARDAS TO BE ROUGH GRADED, BUT NOT FIRSTED GANGED DATED DATED THE PRIVACE OF CONSTITUCTION. TEMPORARY SEEDING SHALL BE FAST GERMANISHED TEMPORARY VECETATION AND ROSILLED MARKELLEY FOLLOWING GRADING, OR INSTALLATION IF A TEMPORARY WEIGHES, ESE ALSO MINIMALUS STANDARDS.

PERMANENT SEEDING (3.32) — PERMANENT SEEDING SHALL BE INSTALLED ON ALL DISTURBED AREAS OF THE SITE NOT OTHERWISE STABILIZED. MACHING (3.35) – ALL DISTURBED AREAS SHALL BE MULCHED AFTER SEEDING. STRAW MULCH SHALL BE APPLIED AT A RATE OF TWO TORS PER ACRE AND ANCHORED WITH 750 LBS PER ACRE OF FIBER MULCH OVER THE SEEDED AREA.

SOIL STABILIZATION & MATTING (3.36) — SLOPES 3:1 OR GREATER SHALL HAVE A PROTECTIVE COVERING OR MAT INSTALLED TO MINIMIZE EROSION AND AID IN ESTABLISHMENT OF PERMANENT VECETATING STABILIZATION.

<u>Permanent Stabulzation</u>

Areas not conferd by drayeways, walks or other permanent hard surface shall be stabuled with representing the contractor shall disure that a strong stand of grass is estabulshed before the removal of erosion control measures.

MANITHANCE.
ALL DOSON AND SEDIENT CONTROL MEASURES SHALL BE REPECTED BI-MEDICY AND AFTER PERY
ROOF PROJUCTION DANIFALL. A LOS OF DATES AND RESPECTIONS SHALL BE REPT. ANY
DET CORRECT THAT HER TROUBLE WAS AND RESPECTIONS SHALL BE REPT. ANY
HOPPING MEASURES SHALL BE ROUTELY PEROFED.

INFORMMENTATIONS STOKE BE REVOIRELT PRIMARY THE SECOND OF THIS PROJECT SHALL BE FIELD 
INSPECTED DURING AND AFTER CONSTRUCTION BY THE RED TO ENSURE COMPLIANCE WITH DED'S 
INS-18. IF ERRISAN OR SOUR IS OCCURRING, THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL 
CORRECTIVE MESSARES.

EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED UNTIL AFTER ALL DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED AND THEN TEMPORARY MEASURES PROPERLY REMOVED.

STORMMATER MANAGEMENT CONSIDERATION.
WATER QUALITY COMPUNING IS BY THE PURCHASE OF OFFSITE NUTRENT CREATS, WATER QUANTITY
COMPUNING IS BY THE CONFERNATION OF DISCHARGE TO A DESIGNED ADEQUATE CHANNEL TO THE
APPROPRIATE LIMITS OF ANALYSIS.

CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO THE FOLLOWING MINIMUM STANDARDS:

- Personnel or Importory and Indistribute with the option to decoder come within home days stilled gradual in resolution on any portion of the file reproporty and admittations and the requiped within some days to demoded oreas both may not be at third gradual but all remarks demonst for looper than 14 days. Personnel reductions and an appelled in ones that one to be left demonst for the 14 days. Personnel reductions and an appelled in ones that one to be left demonst for the 14 days. Personnel reduction and an appelled in ones that the total but the 14 days. Personnel reduction and Statistical Contracts 25 days for TSE FIXED AND STATE OF THE THEORY AND STATEMENT STATEMENT AND STATEMENT STATEMENT AND STATEMENT
- AREAS (1881 IN 1971 THE A ROW-INCHESSEE) STORMED AS STORMED IN THE PLAN. During construction of the project, and storp plans on the owner owns with a statistical or protected with settlement trapping measures. The applicant is responsible for the temporary and the property of the pr
- A permanent vegetative cover shall be established on denuded areas not otherwise permanent stabilized. Permanent vegetation shall not be considered established until a ground cover is orchived that is uniform, moture enough to survive and will inhabit erosion. SEE MINIOUS STANDARD I.
- Sediment basins and traps, perimeter dites, sediment barriers and other measures intended to trap sediment shall be constructed as a first step in any land-disturbing activity and shall be made functional before pushape land disturbance tokes place. INSTALL EROSION CONTROL MEASURES AS OUTLINED IN THE CONSTRUCTION SURVINEE.
- Stabilization measures shall be applied to earthen structures such as dams, dives and diversions immediately other installation. APPLY TEMPORARY SEEDING TO TEMPORARY DIVERSION DIKE. AND ANY OTHER RAFFLEN STRUCTURES IMMEDIATELY POLICETING CONSTRUCTION.
- AND NOT OTHER EMPRISES STRUCTURES IMMEDIATELY PRESENTE CONSTRUCTION.

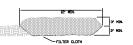
  Schoolest frees and designed and construct leaving upon the loted delating area to be arrest by the top or built of the school o
- OF USERNAL FORCE OF SECURITION OF PROPOSED VILLE THE THREE PROBLES FORCE OF SECURITION OF SECURITION OF SECURITION OF SECURITIES SECURITIES OF SECURITIES OF
- Concentrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporary or permanent channel, flume or slope drain structure. NO CONCENTRATED RETINATION SHALL FLOW DOWN COT OR FILL SLOPES AND SHALL BE DIVERDE AS NOTESSARY.
- Whenever water seeps from a slope face, adequate drainage or other protection shall be provided. THE CONTRACTOR SHALL CONTRACT THE ENGINEER INMEDIATELY UPON THE DISCOVERY OF ANY WATER SEEPS.
- All storm sever hields that are made operable during construction shall be protected so that eachment-loaden water common enter the conveyance system eithout first being filtered or otherwise troubled to remove sediment. NO STORM SERVER THALTS ARE MADE OPERABLE OR ARE WITHIN THE LIMITS OF THIS PRODUCT.
- Before neetly constructed stormwater conveyance channels or pipes are made operational, adequate outlet protection and any required temporary or permanent channel fishing shall be installed in both the corresponse channel and receiving channel. MI OUTLET PROTECTION IS PROPERTY STORMS
- When work in the subsections is performed, precourtions shall be taken to minimize encroachment control sedment transport and stabilise the exist ones to the greatest artest possible during construction. Nonemodelle meterial salls be used for the construction of coasesyre and collections. Earther fill may be used for these structures if amore by possessible cover motivides. NO PRINT ETHILL ITEM EXPLICATIONS SES PROPRISED POR THIS PROJECT.
- When a line watercourse must be crossed by construction vehicles more than telce in any star-month period, a temporary welfactural stream crossing constructed of nonerodible material shall be provided. IN FORK STRUM LI
- All applicable federal, state and local regulations pertaining to working in or crossing like watercourses shall be met. NO FORK SITHUN LIVE VATERCOURSES IS PROPOSED FOR THIS PROJECT.
- The bed and banks of a watercourse shall be stabilized immediately after work in the watercourse is completed. NO WORK WITHIN LIVE WATERCOURSES IS PROPOSED FOR THIS PROJECT.
- Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:

  - regions that you are sense or extraction in occurrence and no consequence and account in the form of the 300 billion may be against at one time. Exceeded noticell shall be placed on the uptil also of treatment. Exceeded noticell shall be placed on the uptil also of treatment and account in the placed of promote through an approved sealined trapping where, or just not discharged in an amove that does not clearly a sealined to the placed of the pla

- STABLISHED ABVE.

  These contribution which occess routes interest powel or public roots, produines shall be made address it is required to the public roots and roots
- All Improper years and selection could be properly from FISS STE 6007 FISS FISSE. STEELS STEELD and a frequency are lost and selection could be adopted to the longer selection of office the temporary measures on a longer needed, unless otherwise selection from the dispulsion of improper measures and the permovately statistical to prevent feet the evidence of a selection feet of the selection of
- Amora ampricamanios.

  (Progratios and estimates) describerant from development alles shall be protected from sediment from the control of the



TEMPORARY GRAVES CONSTRUCTION ENTRANCE

- VIDT #1 Coarse Aggregate

CE

MINIMUM STANDARDS CONTINUED:

- Adequacy of all channels and pipes shall be verified in the following manner
- The applicant shall demonstrate that the total drainage area to the point of analysis within the channel is one hundred times greater than the contributing drainage area of the project in question; or
- bed or banks.

  All previously constructed mon-mode channels shall be analyzed by the use of
  a ten-year storm to really that stormaster will not overlop its banks and by
  the second or ten-year storm to demonstrate that stormaster will not couse
  exists of channel bed or banks; and
- erosion of channel hed or banks; and

  (c) Pipes and starm sever systems shall be analyzed by the use of a ten-year
  storm to wellly that starmeater will be contained within the pipe or system.

  If existing natural receiving channels or previously constructed man-made channels or pipes
  are not collegate, the applicant shall:
- not codequate, the applicant shall: Improve the channels to a condition where a ten-year storm will not overtop the banks and a two-year storm will not cause erosion to channel bed or banks; or improve the pipe or pipe system to a condition where the ten-year storm is contained within the appartenance.
- contained within the appurtmentance; Desertop alle delign fined all not cause the pre-development peck nursif rate from a few-year storm to increase when nursif confided to a natural content or with not number of the properties of the properties of the properties of the properties of number of the properties of the properties of the properties of the properties of Provides a combination of channel improvement, stormwater detention or other measures which a staffactory to the SEOP authority to revent deserteem enature.

- usines enrequents of the species project. If the applicant choices as ormanism definition, he shall obtain approval from the 16250 of a plan for maintenance of the attention inclinities. The plans and rest for this challenance requirement of the facility and the present responsible production of the challenge of the present responsible production for the challenge of the challenge of the present responsible or adaptive shall be placed if the outfield of determin facilities are necessary to provide a stabilized formation from the facility to the recollege channel.

  All —a-she demonstrate that we selfed to be designate, continued and account of the channel of

- o deterition facility:

  or deterition facility:

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  project, Instead, the development and not be considered to be securise development
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- Any plan approved prior to July 1, 2014, that provides for starmeater management that addresses any flow rate capacity and velocity requirements for natural or man-made channels shall solity the flow rate capacity and velocity requirements for natural and man-made channels If the practices are designed to
  - detain the water quality volumes and release it over 48 hours; detain and release over 24-hour period the expected rainfall resulting from the one year, 24-hour storm and;
- year, 24-hour stem out; a review for realiting from the 1.5, 2, and 10-year, 24-hour stem to a level that is less than or equal to the pask flow rate from the after counting it was in your derested condition, conheed brough midilication of the after counting it was in your derested condition, otherwise the sufficient product to the set of the product of the set in it has produced condition, and which is setting than only for rate capacity and wholly repairment for instruct or mon-mode characte as defined in any regulations promagated parametric ICE art. 47.5.5 or 4621-47.6.55 of the Act. 15.5 or 4621-47.6.5 or
- For plans approximate parameter to 8c.1—4.1325 or 8
- Compliance with a solar quantity minimum standards set out in 91AC25-870-66 of the Virginia Stormardor Managamant Program (ISAB) Parmil Regulations shall be deemed to solarly the requirements of Minimum Standard 18. PROJECT COMPLIES STEEL 91AC95-870-98 ST CONVINCENTION OF ASSISSABLE TO A SESSIMAD SINGART COMPLIES TO THE APPROPRIATE JUSTICS OF ANISASSABLE TO A SESSIMAD SINGART COMPLIES.

GENERAL EROSION AND SEDIMENT CONTROL NOTES, ROANOKE CITY, VIRGINIA

ES-I: LINLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMAL STANDARDS AND SPECIFICATIONS OF THE VIRONAL BROSSON AND SEDMENT CONTROL HAVEBOOK AND VIRONIA REGULATIONS OF 625-02-00 EROSION AND SEDMENT CONTROL REGULATIONS.

ES-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE CINSTE PRECONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FIRM INSPECTION.

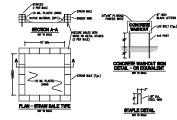
ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.

ES-4: A COPY OF THE APPROVED EROSION AND SEDMENT CONTROL PLAN AND MARRATINE, AS WELL AS A COPY OF THE LAND DISTURBING PERMIT, SHALL BE MAINTAINED ON THE SITE AT ALL THES. THE RESION AND SEDMENT CONTROL ADMINISTRATOR WALL DELIVER THESE MATERIALS AT THE ONSITE PRECONSTRUCTION CONFERENCE. ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON

ES-6:THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTRO MEASURES NECESSARY TO PREVENT EROSION AND SEDMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.

ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDMENT CONTROL MEASURES AT ALL TIMES DURING THE LAND DISTURBING ACTIVITIES AND DURING STIE DEVELOPMENT UNTIL FINAL STABLIZATION IS ACREVED.

ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEWCES SHALL BE MADE IMMEDIATELY



BECTION A-A

DO ML PLASTIC—

PLAN - WOOD PRAME TYPE

TWO (2) 2:42 STACKED VERTICAL

NO.

3.02

3.09

3.31

3.32

3.35

3.36

TITLE TEMPHRARY GRAVE

CONSTRUCTION ENTRANCE

ROAD STABILIZATION

SILT FENCE

DIVERSION DIKE

TEMPORARY SEEDING

## CONCRETE WASHOUT NOTES

- TEMPORAY CONDETE BUSINOST ACTUAL LAYOUT TO BE DESTRUMED IN THE FEED TEMPORAY RESPONS FORUMES SHOWN DE LOCATED A BUSINOS OF THEM STORE DOWN MALTS, OPEN DIAMAGE CHAMBLES AND BUTERCORRES. CHANGES AND INTERCORRESS.
  A CONNECT INSURING SION SHALL BE INSTALLED WITHIN 30' OF HE INSPONMY CONCRET INSURING TRAILITY.
  INTERNALS AND PROCESSINGS USED TO CONSTRUCT.
  INTERNALS AND PROCESSINGS USED TO CONSTRUCT.
  INTERNALS AND PROCESSINGS USED TO TACKINGS.
  SHALL BE ADSCRIVE FOR THE AMMOPIATED VOLUME OF USE
  THE THE PROCESSINGS.
- FOR THE PROJECT. PLASTIC LINNS MATERIAL SHALL BE A MINIMUM TO ME, POLICIPATIONE SHEETING, FREE OF TEAMS, HOLES OR OTHER
- PALENTIAL SERVICE, FREE OF TANKS, REALE OF OWNER

  ONE CONSISTE RECEIVED HIS SERVICE OF THE OWNER OF THE OWNER OF THE OWNER OF THE OWNER OW CONCRETE WASHOUT

Filter Fobric-

SF CONSTRUCTION OF A SILT FENCE

Extend Fabric and Vire Into Trench

## TEMPORARY STABILIZATION

TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEMEN DAYS TO DENIDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 14 DAYS. PERMANDIT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.

TEMPORARY SEEDING MIXTURE

PLANTING DATES	SPECIES	RATE (LBS./ACRE
SEPT. 1 - FEB. 15	50/50 MIX OF ANNUAL RYEGRASS (LOUUM MULTI-FLORUM) & CEREAL (MINTER) RYE (SECALE CEREALE)	50 - 100
FEB. 16 - APR. 30	ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM)	60 - 100
MAY. 1 - AUG. 31 LIME: 90 LB / 1000 : FERTILIZER: 10-10-10 @ 10	GERMAN MILLET (SETARIA ITALICA) SF PULVERIZED AGRICULTURAL LIMESTONE LB / 1000 SF	50

PERMANENT STABILIZATION
ALL AREAS DETRHEID BY CONSTRUCTION MILL BY STABILIZED WITH PERMANENT SEEDING WITHER 7
ANY OR MAINTAINET YOUGHNEST PRISH GRADING, SEEDING MILL BY DOME ACCORDING TO STANDARD AND SPECTPICATION 3.32 OF THE WIRONA EROSION AND SERVICENT CONTINC. HANDROCK PERMANENTLY SEEDING AREAS SHALL BE PROTECTED MANING ESTRABLISHED WITH STRAW MAINT.

PS PERMANENT SEEDING MIXTURE



SOIL CONDITIONING: TITIONICS - MICHIGANI OF LINE AND FEFTLIZER, SELECTION OF CORTIDED SEED, MILCOHOR, MARITEMAN OF NEW SETELANCS, AND RESIZENANG SHILL SE IN ACCORDANCE WITH SECRETICATIONS CONTAINE WHITH THE WORLDAWN AND REPORTAL MICHIGANICAL LINEST EXTRICAL ADDITIONAL SEEDING TO BE PERFORMED AS REQUIRED BY THE INSPECTIOR.

SEED APPLICATION: APPLY SEED UNFORMLY WITH A CYCLONE SEEDER, DRUL, CILTIPACKER SEEDER, OR HYDROSEEDER ON A FRM, FRANKE, SEEDBED. NAOMALM SEEDING DEPTH SMALL OF 1/4 about

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Lic. No. 052216

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A. T. C. T. 12/15/21

Associates,

Lumsden /

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EROSION & CONTI

PLAN PREHENSIVE DEVELOPMENT P MAIN HEATING & AIR CONDITIONING LOGATE AT 1829 CHAPPAN A VENUE, S.W. OTT OF PROMPICE, TREED S.W. D AT AVENUE, : B. 157550 RKE, VIRGINIA 1929

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21-12

by Ken Richardson 01/24/2023

City of Roanoke Planning, Building, & Development COMMISSION NO SHEET 5 OF 7

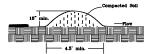
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<del>-0-</del> PERMANENT SEEDING <del>--0--</del> MULCHING (MU) --NULTAZILIZATION 

KEY SYMBOL



DD TEMPORARY DIVERSION DIKE