

3. SEPARATE PAYMENT WILL NOT BE MADE FOR SAW CUTTING OF ANY KIND, BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
14. PAYMENT FOR JOINT MATERIAL FOR ALL CONCRETE WORK WILL NOT BE MEASURED BUT SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
15. TRAFFIC CONTROL SHALL BE PAID UNDER "MAINTENANCE AND PROTECTION OF TRAFFIC" AND SHALL BE IN ACCORDANCE WITH THE LATEST NJ DEPARTMENT OF TRANSPORTATION STANDARDS.
16. MANHOLE CASTINGS THAT ARE TO BE RESET SHALL BE RESET $\frac{1}{4}$ " LOWER THAN THE PROPOSED PAVEMENT ELEVATION.
17. THE NEW JERSEY DEPARTMENT OF TRANSPORTATION (NJDOT) STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION ALONG WITH THE 2010 STATE AID SUPPLEMENTAL SPECIFICATION AS MODIFIED SHALL GOVERN THIS PROJECT.
18. ALL UNUSED MATERIAL EXCAVATED FROM THE PROJECT SITE ARE TO BE DISPOSED OF AT AN APPROVED FACILITY. THE CONTRACTOR IS RESPONSIBLE FOR TESTING OF SOIL TO BE REMOVED FROM THE SITE.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED IN THE PLANS AND SPECIFICATIONS. SEPARATE PAYMENT FOR ALL ASSOCIATED COSTS WILL NOT BE MADE, BUT SHALL BE INCLUDED UNDER VARIOUS ITEMS OF THE PROPOSAL.
20. THE CONTRACTOR SHALL ANTICIPATE GROUND WATER INFILTRATION OCCURRING THROUGHOUT THE COURSE OF THE VARIOUS TASKS ASSOCIATED WITH THIS PROJECT. ALL COSTS ASSOCIATED WITH THE TEMPORARY BYPASS PUMPING AND OR DEWATERING SHALL BE INCLUDED IN THE VARIOUS ITEMS IN THE PROPOSAL.
21. ALL UTILITY WORK SHALL BE CONSTRUCTED TO ALLOW UNINTERRUPTED SERVICE TO ADJACENT PROPERTIES.
22. EXISTING WATER MAIN, SANITARY SEWER, GAS MAIN STORM SEWER, ELECTRICAL SERVICES AND ALL OTHER UTILITIES SHALL BE FULLY SUPPORTED AND MAINTAINED DURING INSTALLATION OF THE PROPOSED UTILITY WORK, SERVICES AND LATERALS.
23. THE TRENCH LIMIT OF DISTURBANCE WITHIN THE ASPHALT ROADWAY SHALL BE LIMITED TO A 4' WIDTH PER UTILITY TRENCH. THE LAY DOWN AREA FOR THE EXCAVATED MATERIAL SHALL BE IMMEDIATELY ADJACENT TO THE TRENCH AND SHALL BE ISOLATED TO THE ASPHALT ROADWAY. TRENCH SHALL BE BACKFILLED AT THE END OF EACH DAY. ALL BASE PAVING SHALL BE COMPLETED ONCE A MONTH FOR ALL WORK COMPLETED THAT WEEK.
24. THE CONTRACTOR WILL BE RESPONSIBLE FOR KEEPING THE PAVED TRAVEL PATH FREE AND CLEAR OF SEDIMENT EACH DAY THE WORK PROGRESSES AND AS OFTEN AS NECESSARY TO KEEP A CLEAN BROOM SWEEP CONDITION AND OR AS DIRECTED BY THE ENGINEER.
25. THE ELEVATION OF THE EXISTING WATER MAIN AS DEPICTED ON THE DRAWINGS IS ASSUMED. CONTRACTOR SHALL CONFIRM ELEVATION OF EXISTING WATER MAIN AND LOCATION OF ALL SERVICE CONNECTION DURING CONSTRUCTION.
26. ALL CONNECTIONS TO THE EXISTING WATER MAIN SHALL BE REPLACED. THE INSTALLATION OF NEW FIRE SERVICE LATERALS SHALL INCLUDE ALL PIPING, VALVES, VALVE BOXES AND RECONNECTION OF EXISTING SERVICE.
27. ALL UTILITY CROSSINGS/OFFSETS SHALL INCLUDE COMPACTED STABILIZATION MATERIAL FOR FULL LENGTH OF CROSSING.
28. SEPARATE PAYMENT WILL NOT BE MADE FOR EXCAVATION, DEWATERING, FITTINGS, PIPE BEDDING, SHEETING, BRACING, SHORING, INLET CONNECTIONS, TRAPS, AND SUITABLE BACKFILL MATERIAL INVOLVED IN ALL PIPE AND ASSOCIATED STRUCTURES REMOVAL, RECONSTRUCTION AND INSTALLATION, BUT THE COST SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL REGARDLESS OF DEPTH.
29. THE CONTRACTOR SHALL EXERCISE PARTICULAR CARE, ESPECIALLY AT INTERSECTIONS AND GUTTER LINES, IN MILLING AND CONSTRUCTION OF PAVEMENT TO PROVIDE POSITIVE FLOWING STORMWATER. ANY AREAS WHERE WATER IS IMPOUNDED SHALL BE CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER.
30. ALL WORK TO BE COORDINATED WITH SEPARATE CONTRACTORS FOR ONGOING WORK IN AREAS SURROUNDING THE SITES.
31. AT ALL LIMITS OF PAVING (L.O.P.) THE CONTRACTOR SHALL SAWCUT, TACK COAT AND SEAL TO MATCH EXISTING PAVEMENT. SEPARATE MEASUREMENT AND PAYMENT FOR ALL THIS WORK SHALL NOT BE MADE AND ALL COSTS SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE BID.
32. INLET SEDIMENT PROTECTION SHALL BE INSTALLED AT ALL EXISTING AND PROPOSED INLETS AND CATCH BASINS SHOWN ON THE PLANS. SEPARATE PAYMENT WILL NOT BE MADE, BUT SHALL BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.
33. THE CONTRACTOR SHALL NOT BE PERMITTED TO UTILIZE ANY KIND OF HMA VIBRATORY ROLLER OR VIBRATORY DRUM COMPACTOR ON THIS PROJECT. ALTERNATIVE COMPACTION TECHNIQUES, SUCH AS STATIC ROLLERS, SHALL BE APPROVED BY THE RESIDENT ENGINEER.
34. STAINLESS STEEL BOLTS ARE TO BE USED FOR ALL BURIED BOLTS.
35. POLYETHYLENE WRAP SHALL BE USED ON ALL DUCTILE IRON PIPING, FITTINGS & APPURTENANCES THROUGHOUT THE PROJECT.

1. IMPLEMENT SOIL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION.
2. IMPLEMENT STANDARD MEASURE FOR CONSTRUCTION RELATED NOISE AND AIR QUALITY IMPACT CONTROLS.
3. BEST MANAGEMENT PRACTICE WILL BE UTILIZED DURING CONSTRUCTION TO PREVENT SEDIMENT FROM ENTERING STORM WATER INLETS AND ENVIRONMENTALLY SENSITIVE AREAS.
4. CONSTRUCTION STAGING ACTIVITIES (INCLUDING STORAGE OF EQUIPMENT, VEHICLES AND MATERIALS) ARE PROHIBITED IN THE ENVIRONMENTALLY SENSITIVE AREA OR GREEN ACRES ENCUMBERED PROPERTIES.
5. IF CONTACT WITH THE NORTHERN LONG-EARED BAT IS MADE DURING MAINTENANCE OPERATION, CONSULTATION WITH USFWS AND BEPR WILL BE REQUIRED.

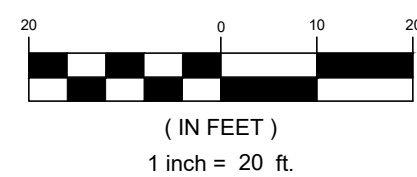
<u>DRAWN BY :</u> G.M.	<u>DESIGN BY :</u> G.M	<u>CHECKED BY :</u> S.C	<u>SCALE :</u> AS NOTE
<u>DATE :</u> 9.2024		<u>SHEET No. :</u> G-1	
<u>JOB No. :</u> 3965X004			

NOTE: ALL SYMBOLS MAY NOT BE USED

<u>DRAWN BY:</u> G.M.	<u>DESIGN BY:</u> G.M.	<u>CHECKED BY:</u> S.C.	<u>SCALE:</u> AS NOTED
<u>DATE:</u> 9.2024		<u>SHEET No.:</u> G-2	
<u>JOB No.:</u> 3965X004			



GRAPHIC SCALE



RVE
[90]

2059 SPRINGDALE ROAD
CHERRY HILL, NJ 08003
(856) 795-9595, FAX (856) 795-1882
WEB SITE ADDRESS : WWW.RVE.COM

Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

STEPHANIE A. CUTHBERT

PLANS WHICH DO NOT BEAR
AN EMBOSSED SEAL ARE NOT VALID

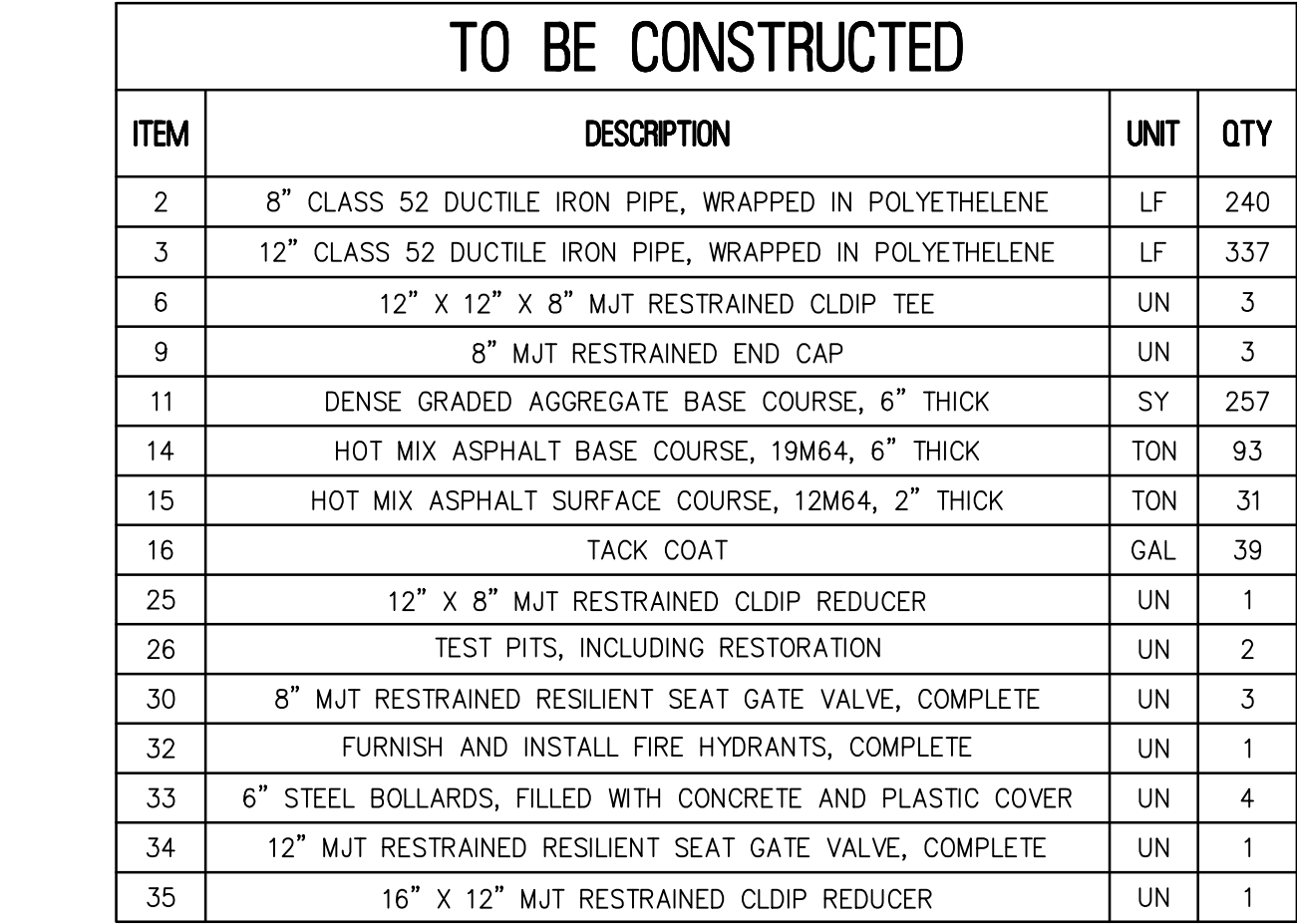
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[illegible]

SOUTH JERSEY PORT CORP
BUILDING Y-2 EMERGENCY FIRE MAIN REPAIR

CAMDEN CITY
CAMDEN COUNTY
NEW JERSEY

<u>DRAWN BY :</u> G.M.	<u>DESIGN BY :</u> G.M	<u>CHECKED BY :</u> S.C	<u>SCALE :</u> AS NOTE
<u>DATE :</u> 9.2024		<u>SHEET No. :</u> C-1	
<u>JOB No. :</u> 3965X004			



RVE
1901

2059 SPRINGDALE ROAD
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PLANS WHICH DO NOT BEAR
AN EMBOSSED SEAL ARE NOT VALID

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[illegible]

PROPOSED SITE PLAN PHASE 2

SOUTH JERSEY PORT CORP
BUILDING Y-2 EMERGENCY FIRE MAIN REPAIR

CAMDEN CITY
CAMDEN COUNTY
NEW JERSEY

<u>DRAWN BY :</u> G.M.	<u>DESIGN BY :</u> G.M	<u>CHECKED BY :</u> S.C	<u>SCALE :</u> AS NOTE
<u>DATE :</u> 9.2024		<u>SHEET No. :</u> C-2	
<u>JOB No. :</u> 3965X004			

1. HATCHING SURROUNDING PROPOSED PIPING INDICATES LIMITS OF DISTURBANCE
2. THE CONTRACTOR IS TO LOCATE THE EXACT LOCATION OF THE EXISTING FIRE MAINS TO EACH VALVE LOCATION TO DETERMINE EXISTING MATERIAL, SIZE AND REQUIRED CONNECTION FITTING.
3. AFTER SUCCESSFUL PRESSURE TEST BEING PERFORMED, THE CONTRACTOR IS TO REMOVE THE RESTRAINED CAP AND MAKE THE FINAL CONNECTION TO THE EXISTING FIRE MAIN ENTERING THE VALVE HOUSE. NO SEPARATE PAYMENT WILL BE MADE FOR THE CONNECTION, INCLUDING THE CONNECTION FITTING; BUT ALL COSTS ARE TO BE INCLUDED IN THE VARIOUS ITEMS OF THE PROPOSAL.

SOL EROSION AND SEDIMENT CONTROL NOTES

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES TO BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCES, OR IN THEIR PROPER SEQUENCE, AND MAINTAINED UNTIL PERMANENT PROTECTION IS ESTABLISHED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STATE STANDARDS FOR SOIL EROSION AND SEDIMENT CONTROL IN NEW JERSEY.
2. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 10 DAYS AND NOT SUBJECT TO CONSTRUCTION IMMEDIATELY RECEIVE A TEMPORARY SEEDING. IF THE SEASON PREVENTS THE ESTABLISHMENT OF A TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL, AT A RATE OF 2 TONS PER ACRE.
3. PERMANENT VEGETATION TO BE SEEDING OR SOODED ON ALL EXPOSED AREAS WITHIN TEN (10) DAYS AFTER FINAL GRADING. MULCH WILL BE USED FOR PROTECTION UNTIL SEEDING IS ESTABLISHED.
4. A SUB-BASE COURSE WILL BE APPLIED IMMEDIATELY FOLLOWING ROUGH GRADING AND INSTALLATION OF IMPROVEMENTS IN ORDER TO STABILIZE STREETS, ROADS, DRIVEWAYS AND PARKING AREAS. IN AREAS WHERE NO UTILITIES ARE PRESENT THE SUB-BASE SHALL BE INSTALLED WITHIN 15 DAYS OF PRELIMINARY GRADING.
5. IMMEDIATELY FOLLOWING INITIAL DISTURBANCE OR ROUGH GRADING, ALL CRITICAL AREAS SUBJECT TO EROSION (I.E., STEEP SLOPES, ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IN COMBINATION WITH STRAW MULCH OR A SUITABLE EQUIVALENT, AT A RATE OF TWO (2) TONS PER ACRE.
6. ANY STEP SLOPE RECEIVING PIPELINE INSTALLATION WILL BE BACKFILLED AND STABILIZED ONLY AS THE INSTALLATION PROCEEDS (I.E., SLOPES GREATER THAN 3:1).
7. TRAFFIC CONTROL STANDARDS REQUIRE THE INSTALLATION OF A 30" X 30" X 1" PAD OF 1-1/2" TO 2" STONE AT ALL CONSTRUCTION DRIVEWAYS IMMEDIATELY AFTER INITIAL SITE DISTURBANCE. A CRUSHED STONE, TIME CLEANING PAD WILL BE INSTALLED WHEREVER A CONSTRUCTION ENTRANCE EXISTS. THE RIP-RAP PAD MUST BE 50' IN LENGTH; THE STONE MUST BE 1-1/2" X 4" IN SIZE, PLACED 12" THICK AND THE FULL WIDTH OF THE ENTRANCE. IT SHOULD BE UNDERLINED WITH A SYNTHETIC FILTER FABRIC AND MAINTAINED.
8. IN ACCORDANCE WITH STANDARDS FOR PERMANENT VEGETATIVE COVER FOR SOIL STABILIZATION, ANY SOIL HAVING A PH OF 4 OR LESS OR CONTAINING IRON SULFIDES SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL HAVING A PH OF 5 OR MORE PRIOR TO SEEDBED PREPARATION.
9. THE CAMDEN COUNTY SOIL CONSERVATION DISTRICT SHALL BE NOTIFIED 72 HOURS IN ADVANCE OF ANY SOIL DISTURBANCE ACTIVITY.
10. AT THE TIME WHEN THE SITE PREPARATION FOR PERMANENT VEGETATIVE STABILIZATION IS GOING TO BE ACCOMPLISHED, THE CONTRACTOR SHALL PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER. SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADDRESS THE DISTURBANCE. THE CONTRACTOR SHALL PROVIDE A SUITABLE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITION, NON-VEGETATIVE MEANS OF GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.
11. CONDUIT OUTLET PROTECTION MUST BE INSTALLED AT ALL REQUIRED OUTFALLS PRIOR TO THE DRAINAGE SYSTEM BECOMING OPERATIONAL.
12. ANY CHANGES TO THE SITE PLAN WILL REQUIRE THE SUBMISSION OF A REVISED SOIL EROSION AND SEDIMENT CONTROL PLAN TO THE COUNTY PLANNING AND ZONING DEPARTMENT DISTRICT FOR RE-CERTIFICATION. THE REVISED PLANS MUST MEET ALL CURRENT NEW JERSEY SOIL EROSION AND SEDIMENT CONTROL STANDARDS.
13. PAVED ROADWAYS MUST BE KEPT CLEAN AT ALL TIMES.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL SOIL EROSION & SEDIMENT CONTROL MEASURES.
15. THAT N.J.S.A. 4:24-39 ET. SEQ., REQUIRES THAT NO CERTIFICATES OF OCCUPANCY BE ISSUED BEFORE THE PROVISIONS OF THE CERTIFIED PLAN FOR SOIL EROSION AND SEDIMENT CONTROL HAVE BEEN COMPLIED WITH. ALL SITE WORK FOR THE PROJECT MUST BE COMPLETED PRIOR TO THE DISTRICT ISSUING A REPORT OF COMPLIANCE FOR THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY BY THE MUNICIPALITY.

TEMPORARY VEGETATIVE COVER FOR SOIL STABILIZATION

1. SITE PREPARATION
 - A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION, AND MULCH ANCHORING.
 - B. INSTALL NEEDED EROSION CONTROL PRACTICES OR FACILITIES SUCH AS DIVERSIONS, GRADE STABILIZATION STRUCTURES, CHANNEL STABILIZATION MEASURES, SEDIMENT BASINS, AND WATERWAYS.
2. SEEDBED PREPARATION

SOIL TEXTURE	TONS/ACRE	LBS./1000 SQ. FT.
CLAY, CLAY LOAM, AND HIGH ORGANIC SOIL	3	135
SANDY LOAM, LOAM, SILT LOAM	2	90
LOAMY SAND, SAND	1	45

- PULVERIZED DOLOMITIC LIMESTONE IS PREFERRED FOR MOST SOILS SOUTH OF THE NEW BRUNSWICK-TRENTON LINE.
- A. WORK LIME AND FERTILIZER INTO THE SOIL AS NEARLY AS PRACTICAL, TO A DEPTH OF 4 INCHES WITH A DISC, SPRINGTOOTH HARROW, OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROWING OR DISING OPERATION MUST BE ON THE GENERAL CONTOUR. CONTRIVE TILLAGE UNTIL A REASONABLY UNIFORM SEEDBED IS PREPARED.
 - C. INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AS ABOVE.
 - D. SOILS HIGH IN SULFIDES OR HAVING A pH OF 4 OR LESS SHOULD BE MULCHED ONLY.

3. SEEDING
 - A. SEE TEMPORARY SEED MIXTURE FOR SPECIES AND APPLICATION RATES.
 - B. APPLY SEED UNIFORMLY BY HAND, CYCLONE (CENTRIFUGAL) SEEDER, DROP SEEDER, DRILL, CULTPACKER SEEDER, OR HYDROSEEDER. MULCH SHALL NOT BE INCLUDED IN A HYDRO-SEEDER TANK WITH SEED. SEED SHALL BE INCORPORATED INTO THE SOIL BY RAKING OR DRAGGING. DEPTH OF SEED PLACEMENT MAY BE 1/4 INCH DEEPER ON COARSE TEXTURED SOIL.
 - C. AFTER SEEDING, FIRING THE SOIL SHALL BE PERFORMED WITH A CORRUGATED ROLLER WILL ASSURE GOOD SEED-TO-SOIL CONTACT, RESTORE CAPILLARITY, AND IMPROVE SEEDING EMERGENCE.
4. MULCHING
 - A. MULCHING IS REQUIRED ON ALL SEEDING.

- A. MULCH MATERIALS SHOULD BE UNROTTED SMALL GRAIN STRAW, HAY FREE OF SEEDS, OR SALT HAY TO BE APPLIED AT THE RATE OF 1 1/2 TO 2 TONS PER ACRE (70 TO 90 POUNDS PER 1,000 SQUARE FEET), EXCEPT THAT WHERE A CRUMPER IS USED INSTEAD OF A LIQUID MULCH-BINDER (TACKIFYING OR ADHESIVE AGENT) THE RATE OF APPLICATION MUST BE DOUBLED THE LOWER RATE. MULCH CHOPPER-BLOWERS MUST NOT GRIND THE MATERIAL.
- B. SPREAD UNIFORMLY BY HAND OR MECHANICALLY SO THAT APPROXIMATELY 75% TO 85% OF THE SOIL SURFACE WILL BE COVERED. FOR UNIFORM DISTRIBUTION OF HAND-SPREAD MULCH, DIVIDE AREA INTO APPROXIMATELY 1,000 SQUARE FEET SECTIONS AND DISTRIBUTE 70 TO 90 POUNDS WITHIN EACH SECTION.
- C. MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES, AND COSTS:
 - 1. PEG AND TWINE- DRIVE 8 TO 10 INCH WOODEN PEGS TO WITHIN 2 TO 3 INCHES OF THE SOIL SURFACE EVERY 4 FEET IN ALL DIRECTIONS. STAKES MAY BE DRIVEN BEFORE OR AFTER APPLYING MULCH. SECURE MULCH TO SOIL SURFACE BY STRETCHING TWINE BETWEEN PEGS IN A CRIS-CROSS AND A SQUARE PATTERN. SEEDING TWINE AROUND EACH PEG WITH TWO OR MORE ROUND TURNS.
 - 2. MULCH NETTING- STAPLE PAPER, JUTE, COTTON, OR PLASTIC NETTING TO THE SOIL SURFACE. USE A DEGRADABLE NETTING IN AREAS TO BE MOWED.
 - 3. CRUMPER (MULCH ANCHORING TOOL)- A TRACTOR-DRAWN IMPLEMENT, SOMEWHAT LIKE A DISC HARROW, ESPECIALLY DESIGNED TO PUSH OR CUT SOME OF THE BROADCAST LONG FIBER MULCH 3 TO 4 INCHES INTO THE SOIL SO AS TO ANCHOR IT AND LEAVE PART STANDING UPRIGHT. THIS TECHNIQUE IS LIMITED TO AREAS TRAVERSABLE BY A TRACTOR, WHICH MUST OPERATE ON THE CONTOUR OF SLOPES. STRAW MULCH RATE MUST BE 3 TONS PER ACRE. NO TACKIFYING OR ADHESIVE AGENT IS REQUIRED.

- D. WOOD-FIBER OR PAPER-FIBER MULCH AT THE RATE OF 1,500 POUNDS PER ACRE MAY BE APPLIED BY A HYDROSEEDER. USE IS LIMITED TO FLATTER SLOPES AND DURING OPTIMUM SEEDING PERIODS IN SPRING AND FALL.

5. IRRIGATION
 - A. IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER (A MINIMUM OF 1/4 INCH TWICE A DAY UNTIL VEGETATION IS WELL ESTABLISHED). THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE PERFORMED IN ABNORMALLY DRY OR HOT WEATHER OR ON DROUGHTY SITES.
6. TOP DRESSING *

- A. SPRING SEEDING WILL REQUIRE AN APPLICATION OF FERTILIZER SUCH AS 10-10-10 OR EQUIVALENT AT 400 POUNDS PER ACRE OR 10 POUNDS PER 1,000 SQUARE FEET BETWEEN SEPTEMBER 1 AND OCTOBER 15.
- B. FALL SEEDING WILL REQUIRE THE ABOVE BETWEEN MARCH 15 AND MAY 1.
- C. MIXTURES DOMINATED BY WEEPING LOVEGRASS OR LEGUMES MAY NOT NEED TOPDRESSING.

- * IF SLOW RELEASE NITROGEN (300 POUNDS 38-0-0 PER ACRE OR EQUIVALENT) IS USED IN ADDITION TO SUGGESTED FERTILIZER, THIS FOLLOW-UP OF TOP DRESSING IS NOT MANDATORY.

- PERMANENT SEEDING MIXTURE (DRY)
- THIS SEEDING MIXTURE IS COMPOSED OF DROUGHT-TOLERANT SPECIES WHICH CAN THRIVE WITH LOW MAINTENANCE. THE PROPRIETARY NAME OF THE MIXTURE IS RECLAIM CONSERVATION MIX-DRY FORMULA AS MANUFACTURED BY THE ROUND BROOK, N.J. GROUP. (800)526-3890. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.
- | % | COMMON NAME | BOTANICAL NAME |
|----|---------------------------|--|
| 40 | CLEMATINE TALL FESCUE | FESTUCA ARUNDINACEA "CLEMFINE" |
| 20 | WEEPING LOVEGRASS | ERAGRIS CURVULA |
| 15 | RELIANT HARD FESCUE | FESTUCA LONGIFOLIA "RELIANT" |
| 10 | JAMESTOWN CHEWINGS FESCUE | FESTUCA RUBRA VAR. COMMUTATA "JAMESTOWN" |
| 10 | PALMER PERENNIAL RYE | LOLIUM PERENNE "PALMER" |
| 5 | WILDER PRAIRIE GRASS | POA TRIVIALIS "LASER" |
| 5 | BLACKWELL SWITCHGRASS | PANICUM VIRGATUM "BLACKWELL" |

- THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FOUR (4) POUNDS/1000 SQUARE FEET OR 175 POUNDS/ACRE.
- RECOMMENDED SEEDING PERIODS ARE APRIL 1-MAY 31 AND AUGUST 16-OCTOBER 15. SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

- PERMANENT SEEDING MIXTURE (MOIST)
- THIS SEEDING MIXTURE IS COMPOSED OF MOISTURE-TOLERANT SPECIES WHICH CAN THRIVE WITH LOW MAINTENANCE. THE PROPRIETARY NAME OF THE MIXTURE IS RECLAIM CONSERVATION MIX-MOIST FORMULA AS MANUFACTURED BY THE ROUND BROOK, N.J. GROUP. (800)526-3890. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.
- | % | COMMON NAME | BOTANICAL NAME |
|----|---------------------------|--|
| 55 | CLEMATINE TALL FESCUE | FESTUCA ARUNDINACEA "CLEMFINE" |
| 20 | WEEPING LOVEGRASS | ERAGRIS CURVULA |
| 15 | RELIANT HARD FESCUE | FESTUCA LONGIFOLIA "RELIANT" |
| 10 | JAMESTOWN CHEWINGS FESCUE | FESTUCA RUBRA VAR. COMMUTATA "JAMESTOWN" |
| 10 | PALMER PERENNIAL RYE | LOLIUM PERENNE "PALMER" |
| 5 | WILDER PRAIRIE GRASS | POA TRIVIALIS "LASER" |
| 5 | BLACKWELL SWITCHGRASS | PANICUM VIRGATUM "BLACKWELL" |

- THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FIVE (5) POUNDS/1000 SQUARE FEET OR 220 POUNDS/ACRE.
- RECOMMENDED SEEDING PERIODS ARE APRIL 1-MAY 31 AND AUGUST 16-OCTOBER 15. SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

- PERMANENT SEEDING MIXTURE (WET)
- THIS SEEDING MIXTURE IS COMPOSED OF SPECIES WITH A HIGH DEGREE OF MOISTURE TOLERANCE WHICH CAN THRIVE IN THE ACIDIC SOIL CONDITIONS COMMONLY FOUND IN THE PINELANDS. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.
- | % | COMMON NAME | BOTANICAL NAME |
|----|---------------------------|--|
| 55 | REBEL 2 TALL FESCUE | FESTUCA ARUNDINACEA "REBEL 2" |
| 20 | WEEPING LOVEGRASS | ERAGRIS CURVULA |
| 15 | RELIANT HARD FESCUE | FESTUCA LONGIFOLIA "RELIANT" |
| 10 | JAMESTOWN CHEWINGS FESCUE | FESTUCA RUBRA VAR. COMMUTATA "JAMESTOWN" |
| 10 | PALMER PERENNIAL RYE | LOLIUM PERENNE "PALMER" |
| 5 | WILDER PRAIRIE GRASS | POA TRIVIALIS "LASER" |
| 5 | BLACKWELL SWITCHGRASS | PANICUM VIRGATUM "BLACKWELL" |

- THE MINIMUM APPLICATION RATE FOR THIS SEEDING MIXTURE SHALL BE FIVE (5) POUNDS/1000 SQUARE FEET OR 220 POUNDS/ACRE.
- RECOMMENDED SEEDING PERIODS ARE APRIL 1-MAY 31 AND AUGUST 16-OCTOBER 15. SUMMER SEEDING SHALL BE PERFORMED ONLY IF ADEQUATE IRRIGATION IS PROVIDED TO ENSURE SUCCESSFUL GERMINATION.

- PERMANENT SEEDING MIXTURE (WET)
- THIS SEEDING MIXTURE IS COMPOSED OF SPECIES WITH A HIGH DEGREE OF MOISTURE TOLERANCE WHICH CAN THRIVE IN THE ACIDIC SOIL CONDITIONS COMMONLY FOUND IN THE PINELANDS. A MIXTURE OF EQUAL QUALITY MAY BE SUBSTITUTED IF APPROVED BY OUR OFFICE.
- | % | COMMON NAME | BOTANICAL NAME |
|----|---------------------------|--|
| 55 | REBEL 2 TALL FESCUE | FESTUCA ARUNDINACEA "REBEL 2" |
| 20 | WEEPING LOVEGRASS | ERAGRIS CURVULA |
| 15 | RELIANT HARD FESCUE | FESTUCA LONGIFOLIA "RELIANT" |
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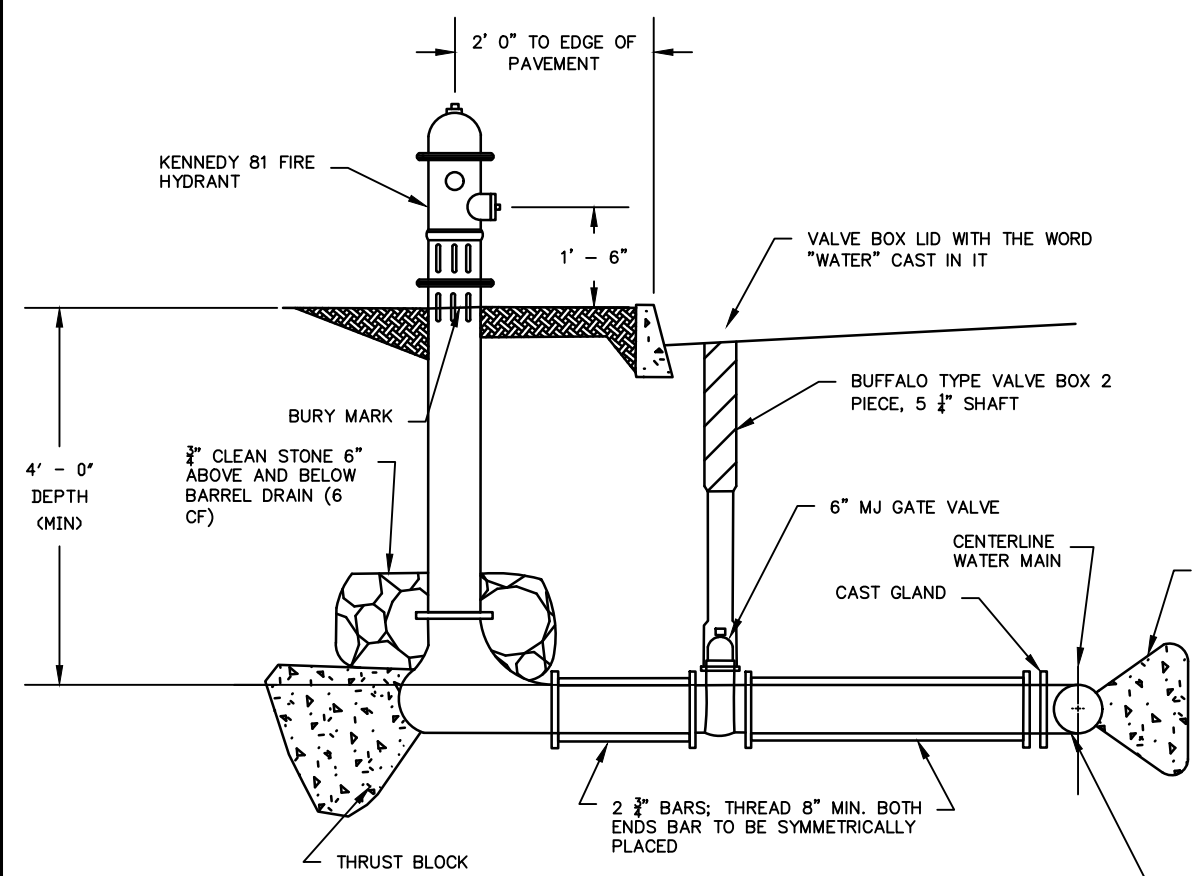
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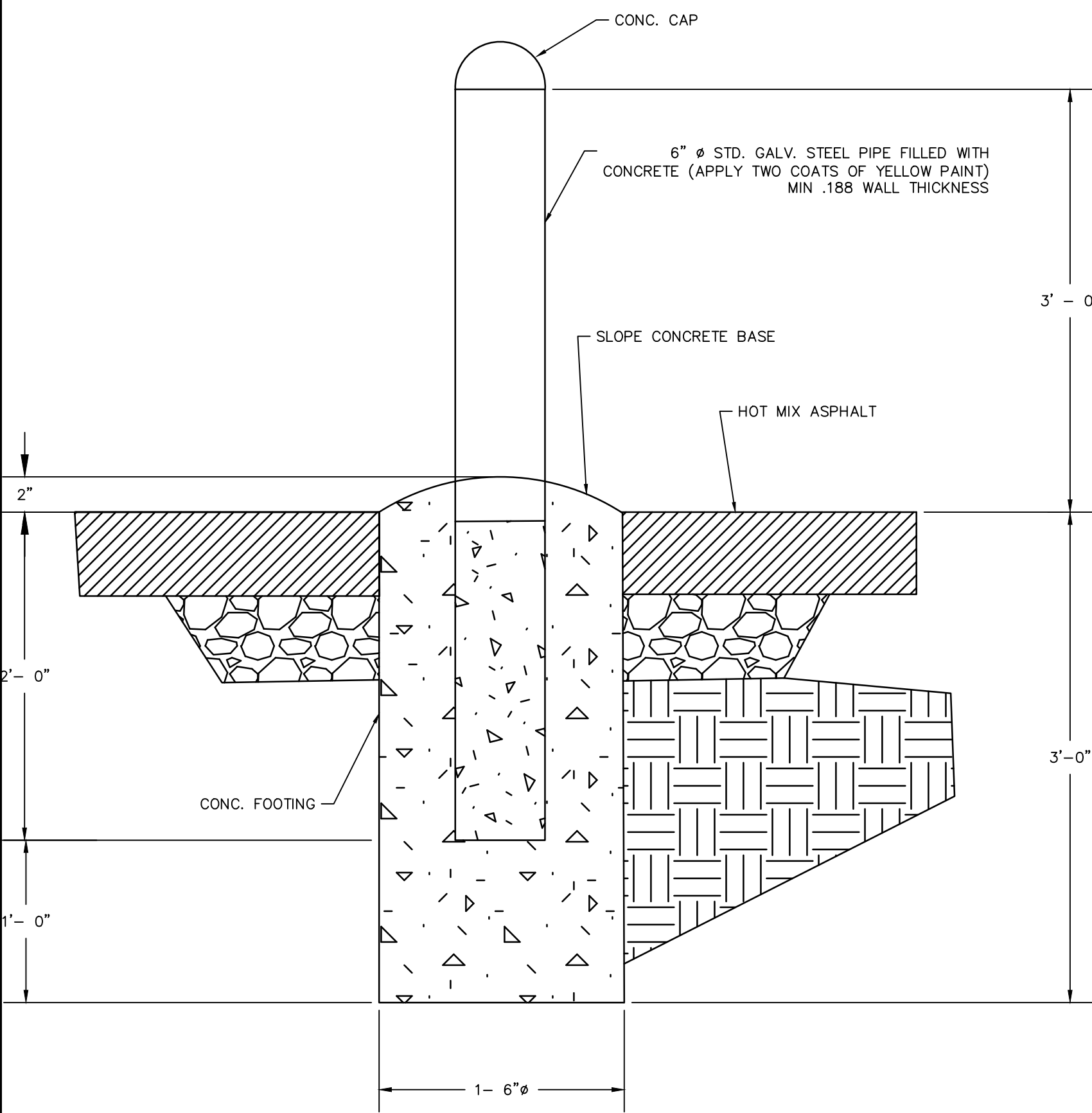
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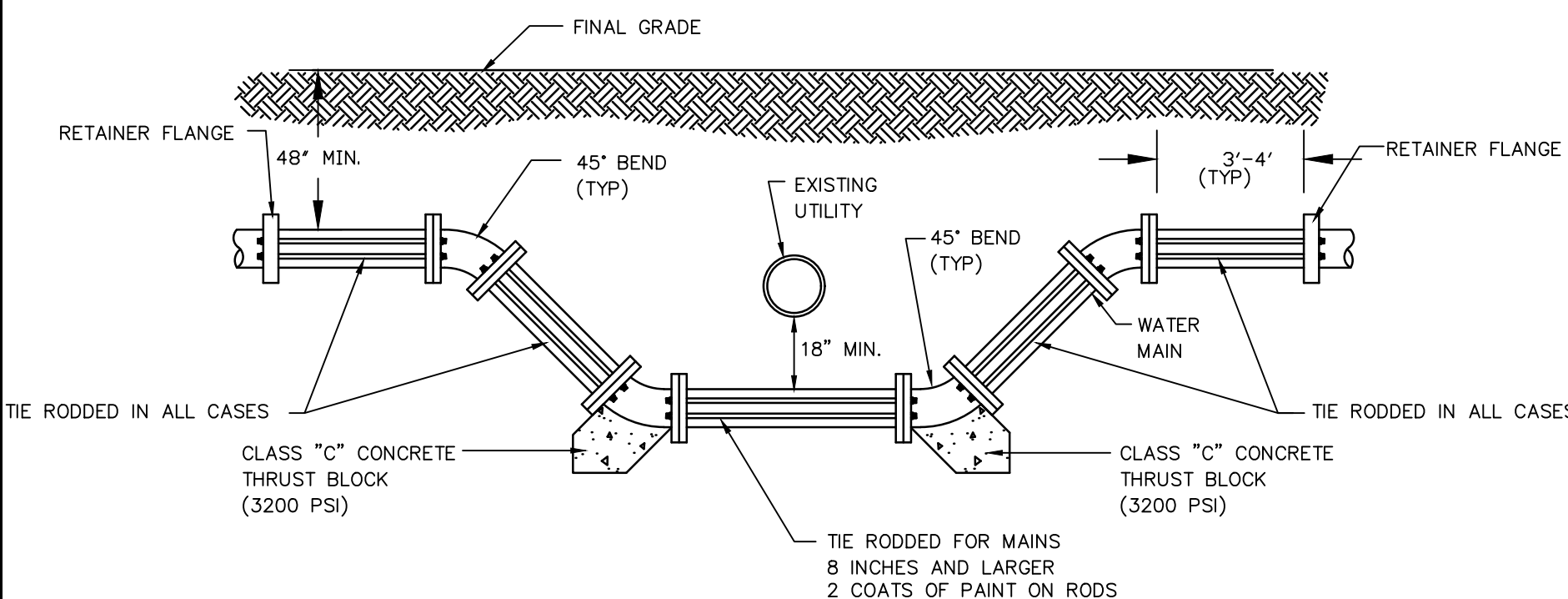
FIRE HYDRANT ASSEMBLY DETAIL
N.T.S.

NOTES:

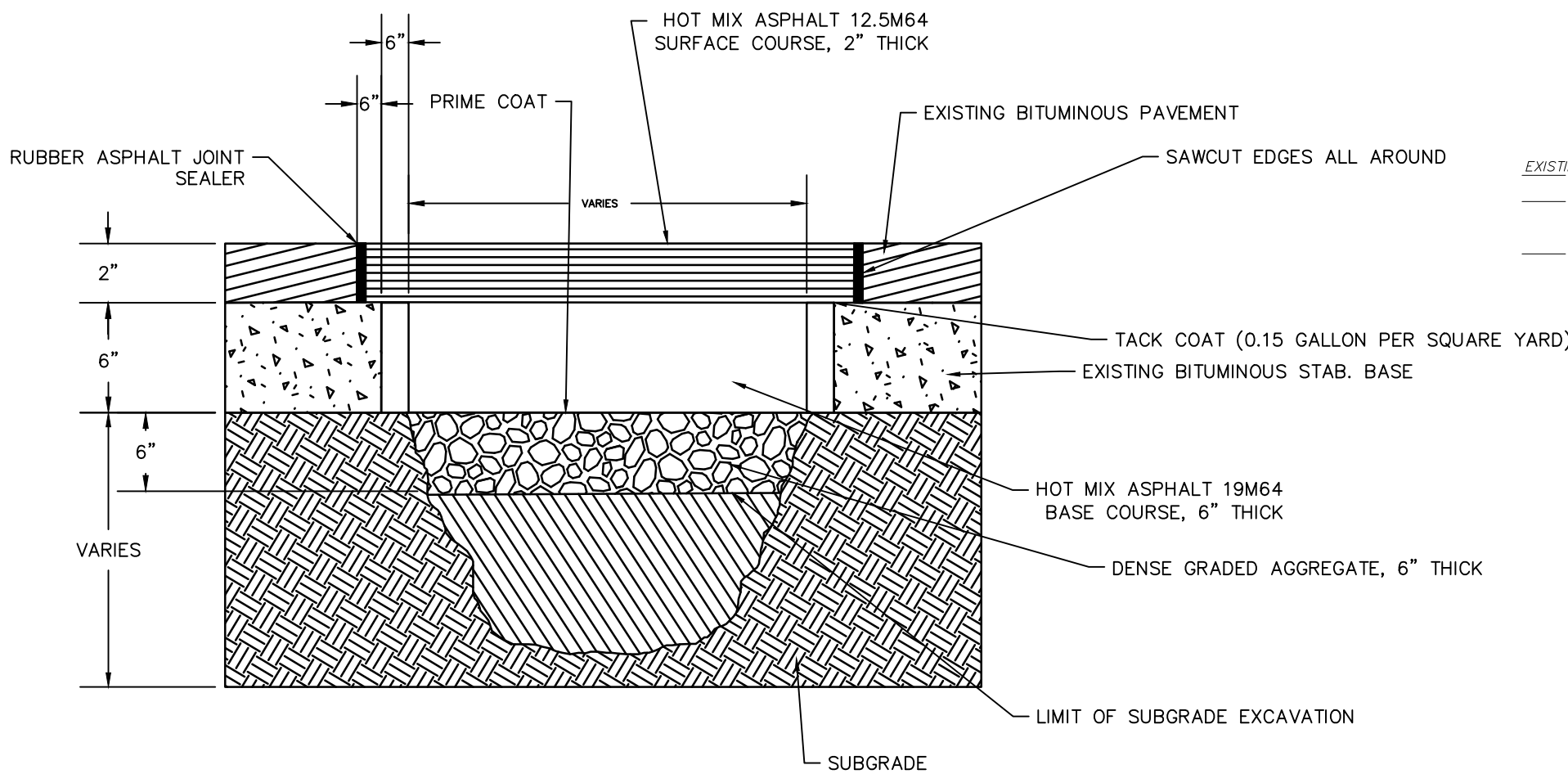
1. THE INLET HUB, GATE VALVE AND HYDRANT TEE SHALL BE RODDED TOGETHER WITH CONTINUOUS THREADED ROD (ALL THREAD), SOCKET CLAMPS, WASHERS AND CORROSION PREVENTION TO PREVENT HYDRANT FROM BLOWING OFF.
2. CONTRACTOR SHALL INSURE THAT THE FIRE HYDRANT THREADS CONFORM TO LOCAL FIRE COMPANY'S STANDARDS.
3. HYDRANT TO BE A KENNEDY VALVE MODEL K81A GUARDIAN HYDRANT OR APPROVED EQUAL.



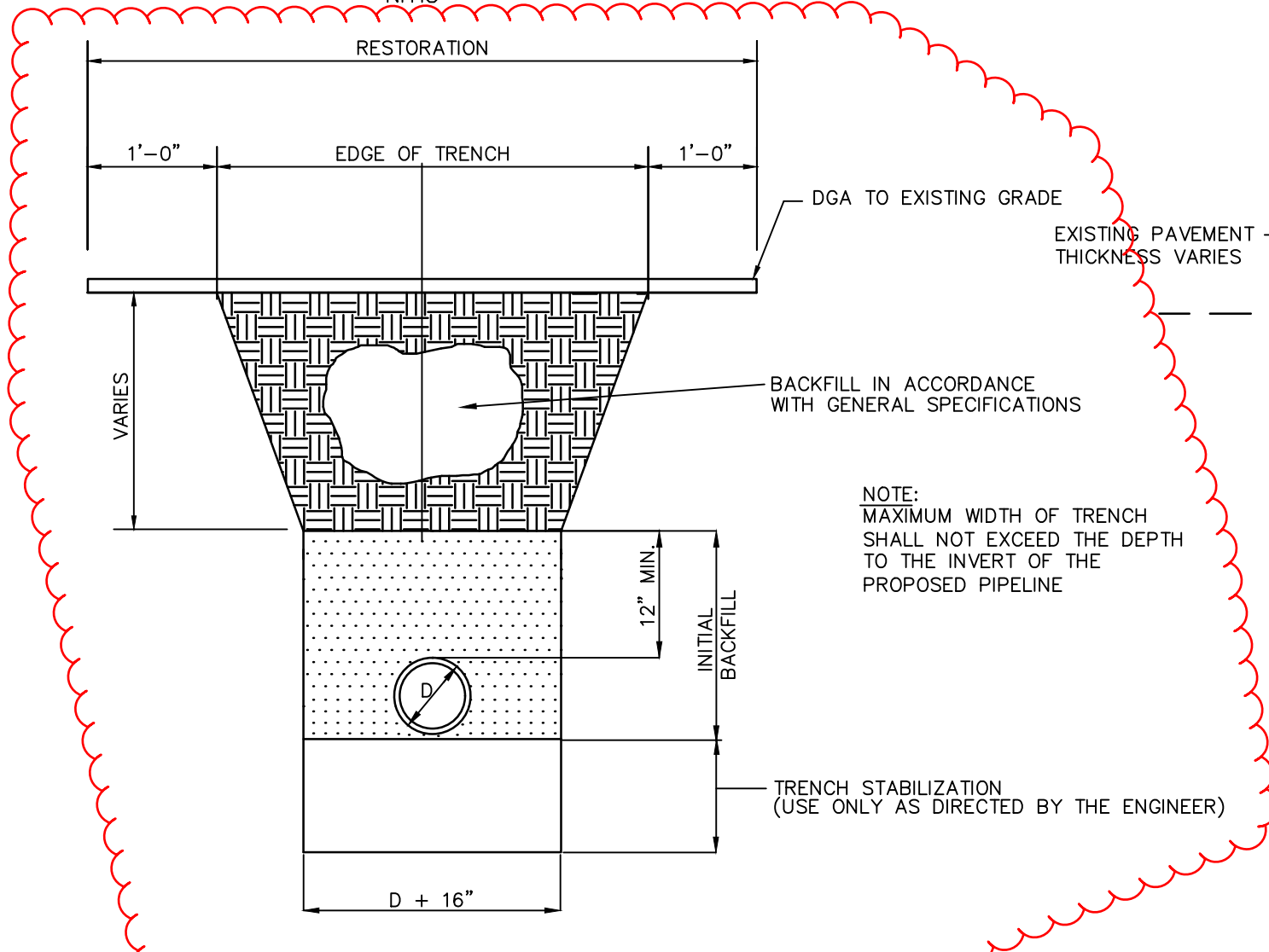
PIPE BOLLARD DETAIL
N.T.S.



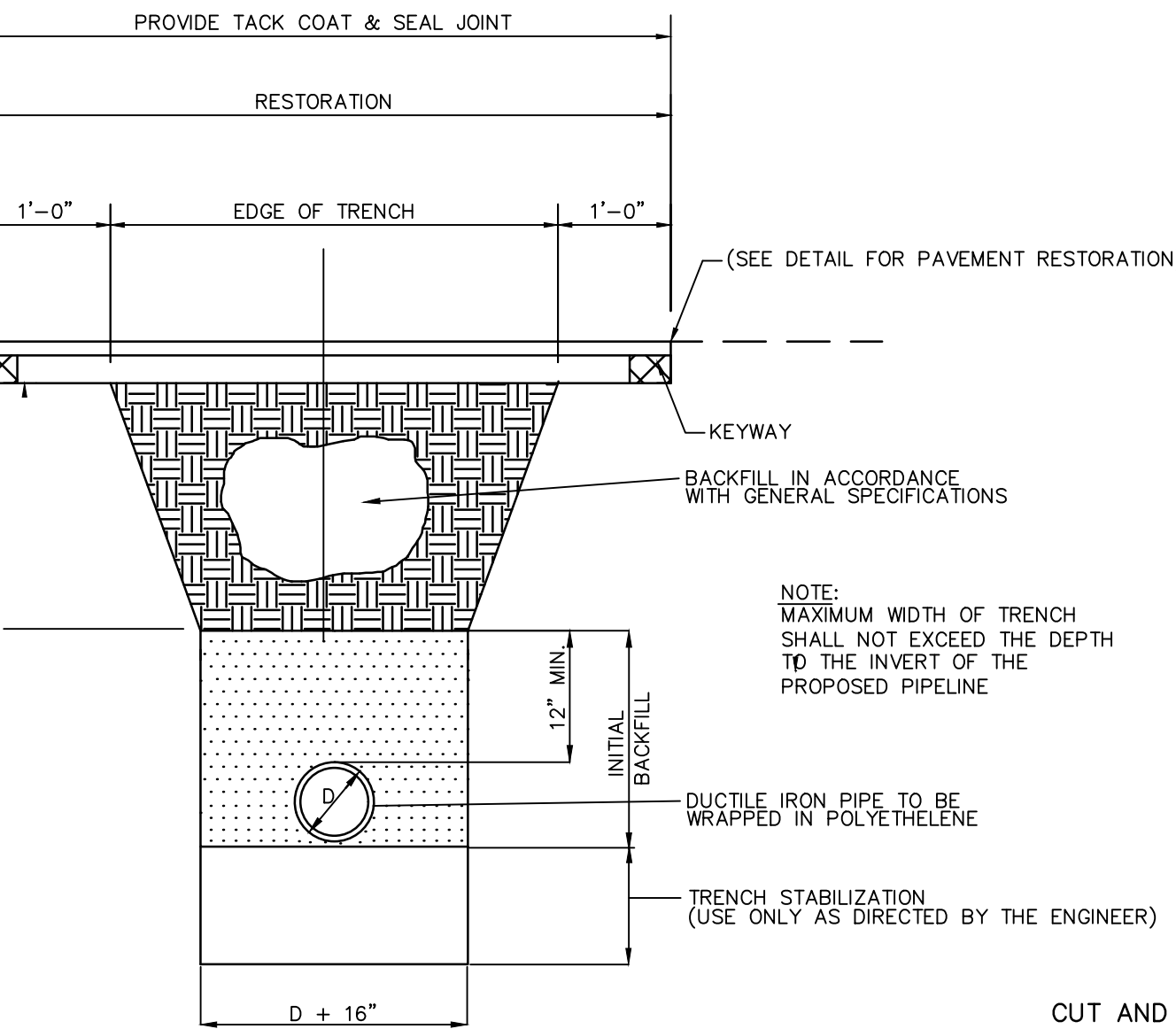
WATER MAIN OFF-SET DETAIL
N.T.S.



UTILITY OPENING REPAIR
N.T.S.



DGA TRENCH DETAIL D.I. PIPE
N.T.S.

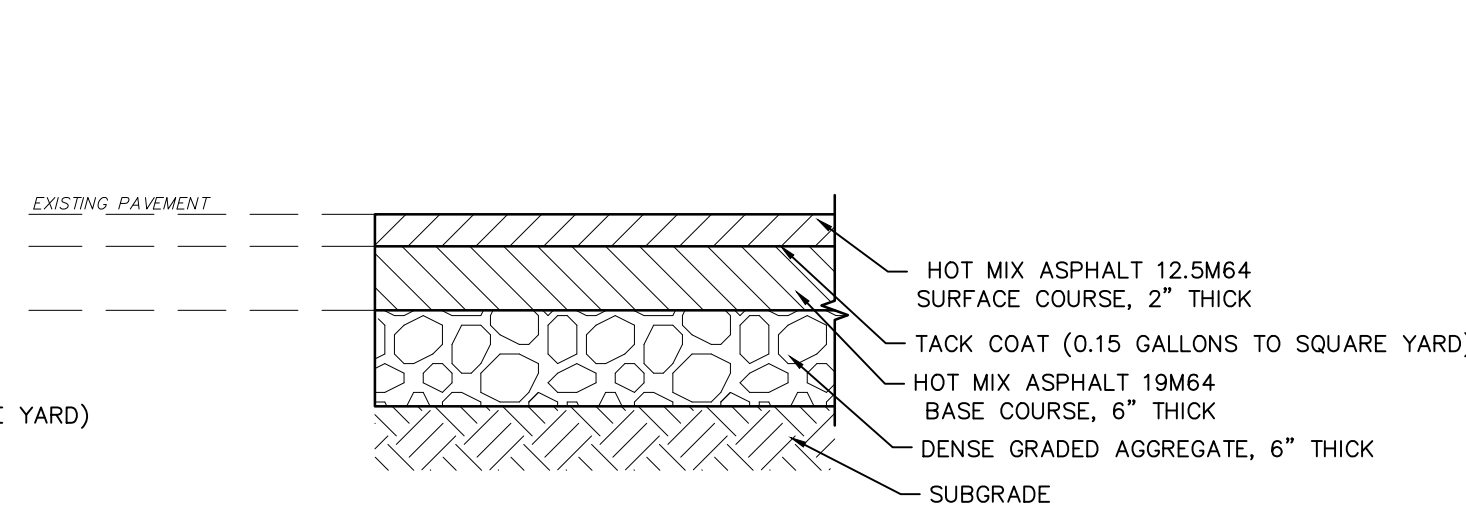


ASPHALT TRENCH DETAIL D.I. PIPE
N.T.S.

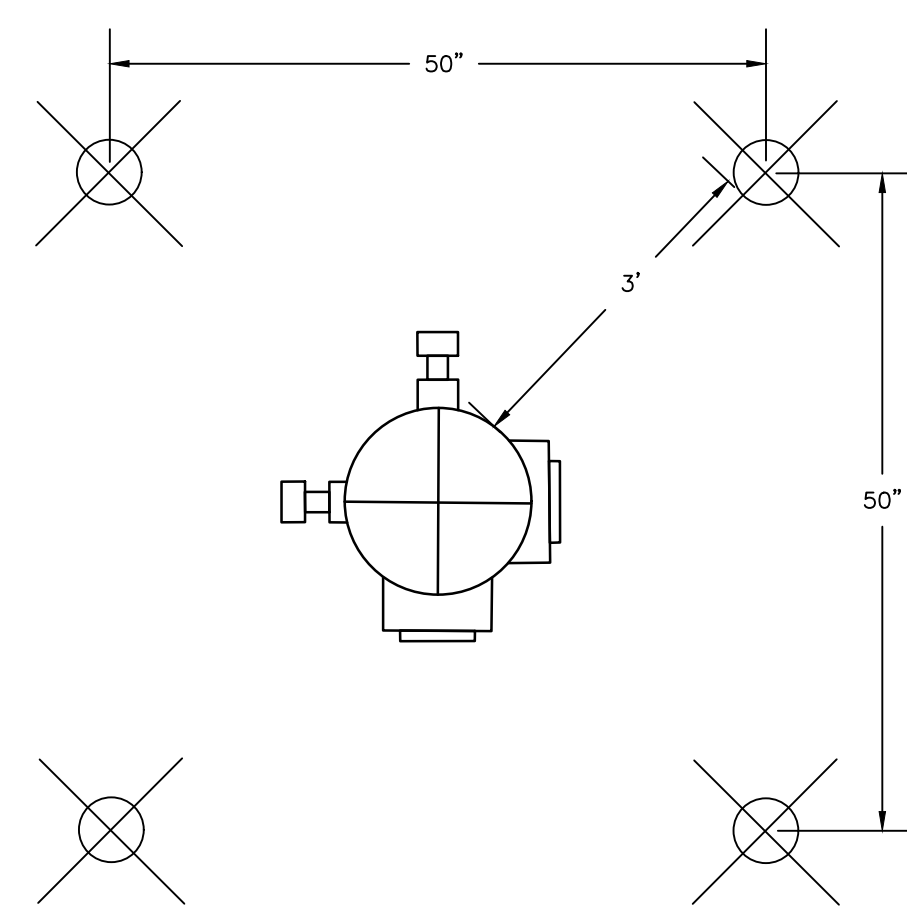
MINIMUM SIZE OF CONCRETE THRUST BLOCKS												
d	TEES & CROSSES			90° BENDS			45° BENDS			REDUCERS		
	A	B	C	A	B	C	A	B	C	A	B	C
2" OR LESS	1'-0"	6"	1'-0"	1'-3"	6"	1'-3"	1'-3"	6"	1'-3"	1'-0"	6"	1'-0"
4"	1'-6"	8"	1'-6"	1'-9"	8"	1'-9"	1'-3"	8"	1'-3"	1'-3"	8"	1'-3"
6"	2'-0"	8"	1'-9"	2'-6"	8"	2'-0"	1'-6"	8"	1'-3"	6"x4"	1'-6"	1'-0"
8"	2'-6"	8"	2'-0"	3'-0"	10"	2'-8"	2'-0"	10"	2'-3"	8"x4"	2'-0"	1'-6"
10"	3'-0"	10"	2'-9"	3'-6"	12"	3'-6"	3'-0"	12"	2'-3"	10"x6"	2'-4"	1'-9"
12"	3'-6"	10"	3'-9"	4'-6"	12"	3'-9"	3'-6"	12"	2'-6"	10"x8"	2'-6"	2'-0"
14"/16"	5'-0"	15"	4'-0"	5'-6"	15"	4'-6"	4'-6"	15"	3'-3"			

1. THRUST BLOCKS TO BE USED FOR WATER MAIN AND FORCE MAINS AT ALL BENDS, TEES, REDUCERS AND PLUGS.
2. BEARING AREAS FOR THRUST BLOCKS ARE BASED ON THE UNDISTURBED SOIL WITH BEARING CAPACITY OF 2000 POUNDS PER SQ. FT. FOR OTHER SOILS OF LESS BEARING CAPACITY, THE AREAS SHALL BE ADJUSTED ACCORDINGLY, (FIG. 14, ASCE "PIPELINE DESIGN FOR WATER AND WASTEWATER, 1975").
3. ALL CONCRETE FOR THRUST BLOCKS SHALL BE 3000 PSI COMPRESSIVE STRENGTH WITHIN 28 DAYS.
4. THE THRUST BLOCKS SHALL BE POURED FROM FITTING SUCH THAT THEY BEAR ON THE UNDISTURBED WALL OF THE TRENCH.
5. THE TABULATED CONTACT BEARING AREAS LISTED ARE FOR HORIZONTAL AND DOWNWARD THRUST ONLY AND ARE NOT APPLICABLE FOR UPWARD THRUST.

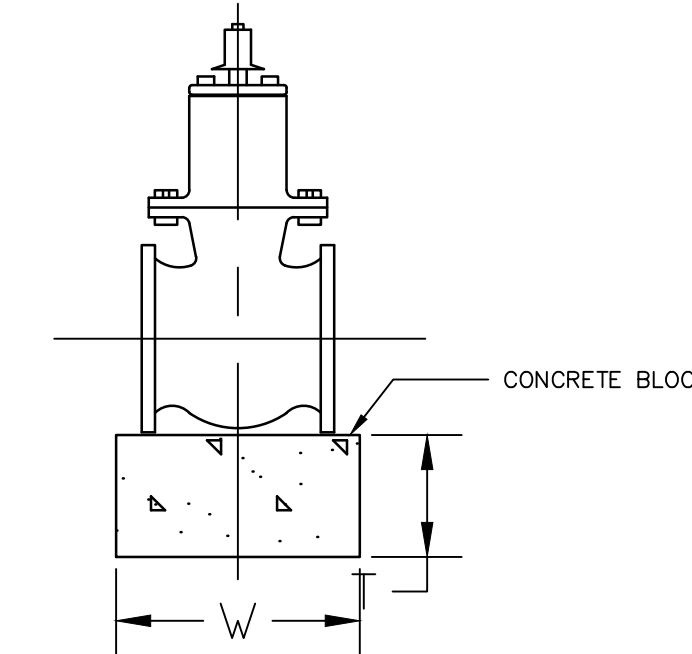
THRUST BLOCK DETAIL FOR SYSTEMS AT 150 PSI TEST PRESSURE OR LESS
N.T.S.



PAVEMENT RESTORATION

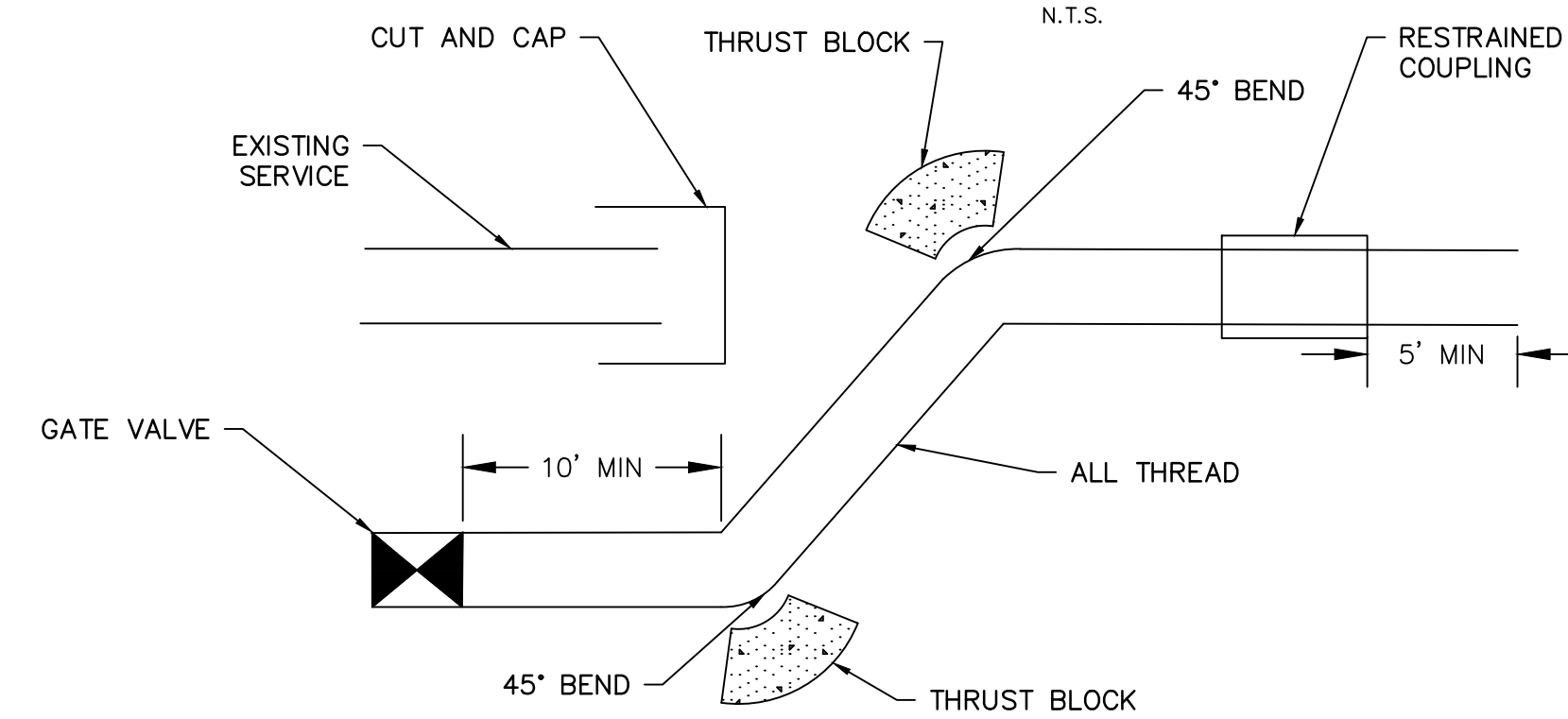


PIPE BOLLARD PLAN VIEW
N.T.S.

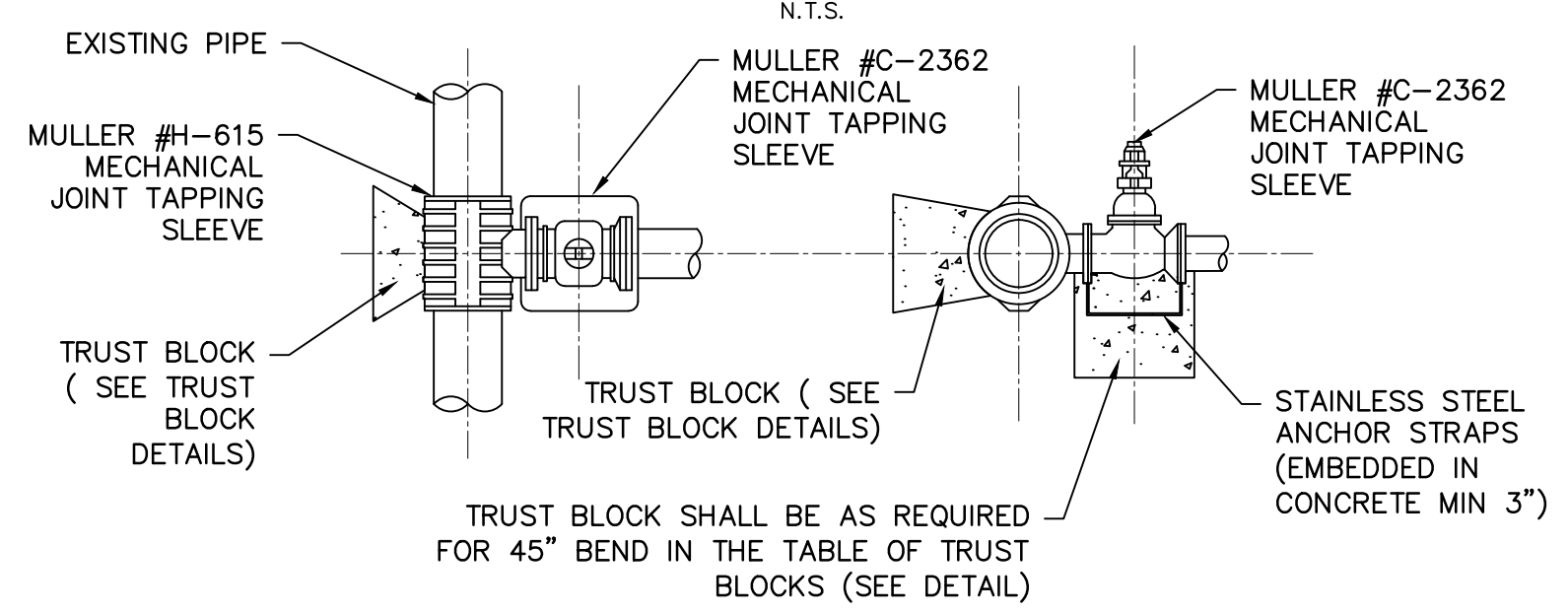


SIZE	T	W	L
6"	8"	16"	16"
8"	8"	18"	18"
12"	10"	20"	20"
16"	12"	26"	26"
20"	14"	28"	28"

VALVE SUPPORT
N.T.S.



VALVE HOUSE CONNECTION DETAIL
N.T.S.



NOTES:

1. TAPPED CONNECTIONS SHALL BE MADE ONLY IN THE PRESENCE OF WATER DEPARTMENT EMPLOYEES OR THEIR DESIGNATED REPRESENTATIVE.
2. CONCRETE THRUST BLOCK UNDER VALVES SHALL HAVE A SOIL BEARING AREA EQUAL TO THAT OF A 45° ELBOW.
3. CONCRETE THRUST BLOCK FOR TAPPING SLEEVE SHALL HAVE A SOIL BEARING AREA EQUAL TO THAT OF A TEE CONNECTION

TAPPING SLEEVE AND VALVE DETAIL
N. T. S.



REMINGTON & VERNICK ENGINEERS

2059 SPRINGDALE ROAD
CHERRY HILL, NJ 08003
(856) 795-9595, FAX (856) 795-1882
WEB SITE ADDRESS: WWW.RVE.COM
Certification of Authorization: 24 GA 28003300
~ENGINEERING EXCELLENCE~

DATE: 08/14/2025
STEPHANIE A. CUTHBERT
NJ PROFESSIONAL ENGINEER LIC. No. 42136

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID

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NO.	DATE	BY	CHKD	REVISION	CHANGES REQUESTED BY CLIENT
1	8/12/25	RG	TM		

DETAILS

SOUTH JERSEY PORT CORP
BUILDING Y-2 EMERGENCY FIRE MAIN REPAIR
CAMDEN CITY
CAMDEN COUNTY
NEW JERSEY

DRAWN BY:	DESIGN BY:	CHECKED BY:	SCALE:
G.M.	G.M.	S.C.	AS NOTED
DATE:			
9/20/24			
JOB No.:			
3965X004			
			D-1