

SECTION IV.

STANDARDS

TENANT ALTERATIONS APPLICATION
PROCEDURES AND STANDARDS GUIDE

SECTION IV STANDARDS

INTRODUCTION

Tenant construction at NJMT must comply with applicable Federal and State laws and regulations, local Building Codes, and the NJMT Design and Policy Standards. Design and construction document reviews by the PA will be made based on compliance with these laws, codes, and standards. This section identifies reference materials, available PA design standards and NJMT-specific design guidelines and requirements.

Please note that other than the "Port Commerce Department TAA Procedures and Standards Guide" and the "Tenant Construction Review Manual", no request for any standards, guidelines or reference materials identified herein as available through the TPM, will be entertained until the Tenant has reached a business agreement with the Port Property Development and Commerce Divisions.

A. PA STANDARDS AND APPLICABLE CODES

1. **Tenant Construction Review Manual** - The PA has set forth standards and applicable code requirements in its "Tenant Construction Review Manual" (TCRM). The TCRM contains the technical criteria to be followed by Tenants and their A/E consultants during design of the project, as well as indicate the general scope of reviews of design documents (plans, specifications, calculations and other documentation) which are submitted to the PA for review. This TCRM is available from the Tenant Project Manager 's Office for use by Tenants and their A/Es.

2. **PA Engineering Standard Details and Specifications** - Are available for use, and in specific cases are required to be used by Tenants in construction projects at the Port. If used, the Tenant's A/E is responsible to assure that the detail or specification is correct and appropriate for the proposed application. Documents containing these details or specifications become the responsibility of the A/E of Record and must bear his/her raised seal and signature.
 - a) **Civil Engineering Standard Details** - Are available for civil design by Tenants. The Index of details is shown in Figure 4.1 and the individual details are available from the TPM upon request.*

 - b) **Electrical Engineering Standard Details** - Are applicable for electrical construction constructed by Tenants. The Index of Details is shown in Figure 4.2 and the individual details are available from the TPM upon request.*

- c) **PA Standard Specifications** - Are available for work specified by Tenant A/Es. The Index of available specifications is shown in Figure 4.3 and the individual sections are available from the TPM upon request.*

*The TPM will issue only PA standard details and specifications, which are relevant to the Tenant TAA project, and only when requested in writing by the Tenant.

The following subsections contain Standards, Policies and Guidelines of the NJMT and apply to Tenant Construction at the Port. These are in addition to those contained in the Tenant Construction Review Manual.

B. NJMT CONSTRUCTION

1. **Construction Screening** - All construction work exterior and interior shall be appropriately screened for the protection of the public and shall be constructed of durable materials and finished in a manner which is visibly attractive to the public. The Tenant shall include a proposed barrier design (finish for interior work, and/or screening design for exterior work) and location in their construction documents for review and approval by the PA.
2. **Construction Signs** - Shall be limited to project identification with an artist's rendering of the building, names of owner, consultants, and principal contractors thereon. Separate company advertising signs are not permitted.
3. **Staging Plans** - Tenant's A/E shall include staging plans in the construction documents for each stage of construction identifying any changes in passenger or public flow routing. The construction General Conditions must include language that a detailed contractor-phasing plan is required to address maintenance of traffic, passenger flow, safety, and equipment staging.
4. **Work Hours** - Work hours may be restricted in certain areas throughout the Port. It is recommended that the Tenant confirm work hours with the PA (TPM) during the design phase of the project and reaffirm with the REO at the Pre-Construction meeting.

Note: Additional policies regarding construction activities is found in Section III-C.

C. UTILITY SERVICES

1. Utility Manholes - Access to PA utility and service manholes by Tenant contractors shall be coordinated through the TPM during design development and through the REO during construction. The NJMT Maintenance Department will provide access upon request. Entry into manholes requires Confined Space procedures. Contact the appropriate Office before entering any manhole.

The Tenant's contractor as directed by the REO shall deliver all manhole covers and frames permanently removed in the process of construction to the NJMT Maintenance Department.

2. Water Supply

All water main work shall conform to PA Standards and Specifications. The following procedure must be followed in installing a water line in the NJMT facility:

1. The Tenant's A/E of Record should incorporate into their construction the purchase of a "Hersey Water Meter with positive displacement and remote capabilities."
2. The contractor must contact the Tenant Project Manager when the water line and meter are installed and the contractor is ready to tie into the water main.
3. To setup a new water account the Tenant's A/E of Record should contact the NJMT account representative, *Margaret Zampini* (973) 578-2144.

Water meters are provided and installed by the Tenant. All installations shall be coordinated with the NJMT Maintenance Department.

3. Electrical Service

- a) Particular care should be given to service entrance details by indicating both the interrupting and short circuit current ratings of the equipment being used. The level of short circuit current that could occur at the service entrance must be obtained from the utility company in order to specify equipment having short circuit withstand rating equal to or slightly greater than the level deliverable by the source.

- b) An NFPA approved electrically operated smoke detector/alarm must be installed. The alarm shall have an interior and exterior audible/visible indicators. The alarm shall be connected to and by a central station.
- c) All contractor installed wiring shall be #12 AWG minimum for power and light and #14 AWG minimum for control.

4. **Communications Infrastructure** - Alterations involving telecommunications systems shall comply with the following:

- a) No existing telecommunications cable shall be cut, moved or otherwise tampered with, until the PA provides written approval.
- b) If construction affects existing telecommunications cable, the tenant is liable for all costs for relocating or repairing the cable and conduit.
- c) Tenants may not use space in existing communications rooms, unless prior written consent is obtained from the PA.
- d) PVC conduit is prohibited within buildings. However, PVC insulated wire and cable is permitted, if it is used in accordance with applicable codes and standards.

5. **HVAC Systems** - Alterations involving HVAC systems shall comply with the following requirements:

- a) Installed Package Chiller/Heater Units using domestic water supply for humidification must have durable signage affixed indicating location of major isolation valves.

Connections between potable and non-potable water systems should be avoided. Where one water system must be separated positively from another, an approved backflow prevention system must be utilized.

- b) Installed Package Chiller/Heater Unit's condensate drains must have durable signs affixed indicating location of the termination points of such drains.

- c) Condensate lines must be copper and not less than 1" in diameter and have clean out plugs installed at each change in direction in order to provide access for removal of blockages.
- d) Condensate lines installed above hung ceilings must be insulated to prevent ceiling tile staining caused by condensation dripping from the line.
- e) Termination points of HVAC Unit(s) condensate drains at sinks and/or floor drains shall have durable signs affixed to them indicating the nature and source location of the water's origination. This requirement is most important when the source and termination points are remote from one another.
- f) Alterations of Central Heating Hot Water distribution system involving major shutdown and long term unavailability of such systems are only permissible during the period of May 15th through October 15th.
- g) Alterations of central Cooling/Chilled Water Distribution systems involving major shutdown and long term unavailability of such system are only permissible during the period of October 15th through May 15th.
- h) One reproducible copy of "As Built" mechanical system drawings and Operation and Maintenance Manuals, including specifications and manufacturer's O&M Instructions shall be delivered to the REO.

D. ENVIRONMENTAL STANDARDS

1. **Asbestos Abatement** - see Subsection II-D.
2. **Lead Abatement** - The PA requires all contractors to comply with State and Federal laws regarding lead containment, removal and disposal. A program has been developed and guidelines have been issued for dealing with lead, lead paint, and other lead containing materials. Copies are available from the TPM for Tenant A/Es to develop contract requirements.
3. **Contaminated Soils** - Tenants must include provisions in Construction Contracts to address removal or remediation of contaminated soils discovered in the project area. Removal or remediation must meet all local, state and federal laws and regulations.

- a) If anticipated during the design, a plan should be developed and submitted for PA review through the TPM, and then reviewed with the NJ DEP.
 - b) If discovered, the REO should be notified and a plan developed in coordination with the PA.
 - c) Promptly upon final disposition of contaminated soils, the Tenant is to submit to the PA a "Certificate of Final Disposal". Stating the type and amount of the material disposed, the method of the disposal and the owner and location of the disposal facility and is to follow the requirements, if any, of the Governmental agencies having jurisdiction.
4. **Dewatering and Storm Water Discharge** - Dewatering and storm water discharge in Tenant construction must be carefully coordinated with the NJMT Environmental Services Unit, through the TPM. The PA has an ongoing permit for dewatering up to established quantities. If Tenant work is likely to exceed the PA permit limits then the Tenant may be required to obtain additional permits. This issue must be addressed at the submittal phase.
 5. **Air Emissions** - PA requires that the appropriate air construction and operation permits be obtained from the NJ DEP prior to installation of the equipment. For example, boilers and emergency generators may require these permits. Information regarding equipment air emissions including nitrogen oxides (Nox), sulfur oxides (Sox), carbon monoxide, total particulates and total hydrocarbons must be submitted with the TAA in order for a determination to be made regarding the necessity for air permits.
 6. **Environmental Permits** - Copies of all environmental permits (underground tank registrations, dewatering permits, etc.) must be submitted with the TAA or as soon as possible after they are obtained. The PA is not to be named on the permit unless permission is obtained in advance from the Manager, NJMT Facilities Division.
 7. **Health Approvals for NJ Food Facilities** - For Tenants constructing new food establishments or making alterations on existing ones, plans and specifications pertaining to the health and sanitary aspects of the operation, such as proposed equipment layout, equipment design and installation, construction materials of food related work areas, shall be submitted to the local health authority for review and approval before construction or renovations.

No food establishment shall be constructed, renovated, or converted except in accordance with plans and specifications previously submitted to and approved by the New Jersey Department of Health and the NJMT.

8. **Health and Safety Plan** - PA requires that a Health and Safety Plan be submitted for any TAA which involves environmental work. The Health and Safety Plan shall comply with all applicable state and federal (e.g., OSHA) occupational safety and health requirements depending upon the specific project.

E. FUELING SYSTEMS

1. **Underground Fuel Storage Tanks (USTs)** - It is PA Policy that no underground storage tanks be left abandoned, whether it be a replacement program or new construction. For New Jersey, NFPA 30 rules apply.

All underground storage tanks at Port Authority shall be installed, operated and maintained in accordance with appropriate state and federal regulations. Sources that should be reviewed to determine appropriate requirements include 40 CFR Part 280 for Federal requirements, NJAC 7:14B for New Jersey's program.

2. **Aboveground Fuel Storage Tanks (ASTs)** - Aboveground tanks for the storage of motor fuels in fuel dispensing systems are permitted only on premises to which the public does not have access. See BOCA Fire Prevention Code F-3207.5. The tanks and their installations must satisfy the requirements of NFPA 30A. In addition, tank enclosure/screen wall must provide vehicle impact resistance and protection.

F. OTHER PA STANDARDS AND POLICIES

1. **Site Planning** - In developing site layouts for new facilities, the applicant should be aware that building and paving set back limits exist but vary depending on the NJMT and location within the Port. The main goals of these setbacks are for aesthetic considerations, to retain a feeling of open spaces and for movement for fire equipment around structures and meeting the required NJ Uniform Construction Codes. General landscaping for the area including plantings for ground cover, screening of elements and for accent shall be planned for the open areas.
2. **Parking** - Parking for contractors shall be within the leasehold of the Tenants who engage their services. Only with prior, NJMT approval may a contractor park/stage equipment in areas not governed by the leasehold.

PA Engineering
Civil Standard Detail Index

Figure 4.1

T A B L E O F C O N T E N T S					
STANDARD DRAWING NO.	TITLE	ISSUE DATE	STANDARD DRAWING NO.	TITLE	ISSUE DATE
010.010	MANHOLE-AIRCRAFT	04/24/92	060.003	CONCRETE CURB DETAILS (3 OF 3)	10/01/92
010.011	MANHOLE TYPE II PRE-CAST	04/24/92	060.004	STEEL FACE CURB-TYPE SF	04/24/92
010.012	SUBSURFACE DRAINS	04/24/92	060.005	RIGID BASED PAVEMENT RESTORATION	04/24/92
010.013	MANHOLE TYPE "A" PRE-CAST	04/24/92	60.006	FLEXIBLE PAVEMENT RESTORATION	04/24/92
010.014	MANHOLE TYPE I PRE-CAST	04/24/92	061.001	CONCRETE DOLLY PAD	04/24/92
011.002	MANHOLE FRAME AND COVER AIRCRAFT	04/24/92	062.001	FLEXIBLE PAVEMENT SECTIONS	04/24/92
011.003	MANHOLE SILT BUCKET AIRCRAFT	04/24/92	062.003	LIME CEMENT FLYASH PAVEMENT SECTIONS	04/24/92
011.004	MANHOLE FRAME AND COVER	04/24/92	062.004	FLEXIBLE PAVEMENT SECTIONS-JFK/EWR	04/24/92
011.005	MANHOLE SILT BUCKET	04/24/92	062.010	PORTS-MARINE TERMINAL PAVEMENT SECTIONS	04/24/92
020.001	STORM SEWER INLET	04/24/92	062.011	STONE SHOULDER	04/24/92
020.011	CATCH BASIN TYPE II CAST IN-PLACE	04/24/92	062.012	PAVEMENT MEETING EXISTING PAVEMENT	04/24/92
010.012	CATCH BASIN TYPE II PRE-CAST	04/24/92	062.013	PAVEMENT MEETING EXISTING FILL	04/24/92
020.013	CATCH BASIN TYPE III	04/24/92	062.014	LIGHT DUTY PAVEMENT MEETING EXISTING FILL	04/24/92
020.014	HEAVY DUTY GRATING FOR RUNWAYS, TAXIWAYS, SAFETY AREAS AND APRONS	04/24/92	062.020	SIDEWALK DETAILS	04/24/92
020.015	VAPOR TIGHT TRAP	04/24/92	062.021	SIDEWALK PEDESTRIAN RAMPS	04/24/92
020.019	CATCH BASIN TYPE IV CAST IN-PLACE	04/24/92	062.022	DROPPED CURB AND DRIVEWAY DETAIL	04/24/92
020.020	CATCH BASIN TYPE IV- PRE-CAST	04/24/92	065.001	PAY LINES FOR TRENCH EXCAVATION	04/24/92
020.021	CATCH BASIN TYPE "A" PRE-CAST	04/24/92	066.001	BEDDING DETAIL	04/24/92
025.001	MANHOLE STEP DETAIL	04/24/92	070.076	SURVEY MARKER- TYPE 2	04/24/92
030.011	LOW PRESSURE FIRE HYDRANT CONNECTION	04/24/92	081.001	PARKING METER STANDARDS	04/24/92
030.012	LOW PRESSURE FIRE HYDRANT CONNECTION (ROD AND BANDS)	04/24/92	082.003	DETAIL OF RAILROAD TRACK IN OPEN PAVED AREAS	04/24/92
030.013	HIGH PRESSURE FIRE HYDRANT CONNECTION	04/24/92	082.004	TRACKS IN UNPAVED AREAS	04/24/92
030.014	HIGH PRESSURE FIRE HYDRANT CONNECTION (ROD AND BANDS)	04/24/92	082.005	PAVEMENT AT CRANE RAIL-TYPE 1	04/24/92
030.020	WATER PIPE RESTRAINED LENGTHS FOR MAINS	04/24/92	082.006	PAVEMENT AT CRANE RAIL-TYPE 2	04/24/92
030.021	DETAIL OF WATER MAIN CROSSING BELOW OBSTRUCTION	04/24/92	082.007	RUBBER RAILSEAL DETAIL	04/24/92
030.023	WATER PIPE RODDING LENGTHS FOR MAINS	04/24/92	082.006	RUBBER RAILROAD CROSSING DETAIL	04/24/92
030.024	FOUR-SECTION BAND AND ROD ASSEMBLE DETAILS	04/24/92	082.007	TRACKS BETWEEN DISTRIBUTION BUILDINGS	04/24/92
030.025	PIPE RODDING THRU WATERPROOF WALLS	04/24/92	089.001	SETTLEMENT PLATES-TYPES 1 AND 2	04/24/92
030.026	FOUR- SECTION BAND AND RODDING ASSEMBLE FOR VALVES IN MAINS	04/24/92	090.001	PIPEGUARD SPACING DETAILS	04/24/92
030.044	DOMESTIC WATER SERVICE 1" TO 2" SIZES	04/24/92	090.002	PIPEGUARD WITH FOOTING	04/24/92
030.050	REINFORCED CONCRETE ENCASEMENT FOR PIPES	04/24/92	090.003	PIPEGUARD WITH FOOTING (HEAVY DUTY)	04/24/92
041.001	STORM SEWER CRADLE	04/24/92	090.004	STANDARD STEEL HYDRANT FENDER	04/24/92
043.001	SANITARY SEWER CRADLE	04/24/92	090.005	PIPE GUARD FOR BUS PARKING AREAS	04/24/92
043.002	PIPE JOINT DETAIL AT SANITARY MANHOLES	04/24/92	090.010	METALLIC COATED CHAIN LINK FENCE-EWR	04/24/92
043.004	PIPE CLEANOUT DETAIL	04/24/92	090.011	METALLIC COATED STEEL CHAIN LINK FENCE	10/01/92
050.013	VALVE FOUNDATION OVER TAPPING VALVE	04/24/92	090.015	FENCE "T" EXTENSION AT WHARF	04/24/92
050.014	VALVE SKIRT AND FOUNDATION DETAIL	04/24/92	090.020	TEMPORARY SEDIMENT BARRIER	10/01/92
050.018	VALVE BOX	04/24/92	090.030	PRE-CAST CONCRETE BUMPER AND TIMBER BUMPER	04/24/92
050.019	FRAME AND COVER FOR SHIP SERVICE BOX (H2O LOADING)	04/24/92	090.031	TIMBER BARRICADE- TYPE 1	10/01/92
050.022	16" HORIZONTAL GATE WAVE PIT (1 OF 2)	04/24/94			
050.022	PIPING LAYOUT (2 OF 2)	04/24/94			
060.003	END OF CURB TREATMENT (1 OF 3)	04/24/92			
060.003	CURB TO HEADER TRANSITION (2 OF 3)	04/24/92			

PA Engineering
Electrical Standard Detail Index

Figure 4.2

<u>DETAIL No.</u>	<u>DETAIL NAME</u>
DETAIL "I"	ELECTRICAL, COMMUNICATION HANDHOLE ESD001.DWG
DETAIL "II"	ELECT./COMMUN. HANDHOLE TYPE "B" AND "C" ESD002.DWG
DETAIL "III"	TYPICAL DETAIL OF RECESSED PULLING HOOK ESD003.DWG
DETAIL "IV"	MANHOLE FRAME AND COVER DETAILS ESD004.DWG
DETAIL "V"	HANDHOLE FRAME AND COVER DETAILS ESD005.DWG
DETAIL "VI"	TYPICAL DETAIL OF WINDOW AND SIDING CONNECTION FOR DUCT ESD006.DWG
DETAIL "VII"	ELECTRICAL COMMUNICATION MANHOLE TYPE "A" ESD009.DWG
DETAIL "VIII"	ELECTRICAL, COMMUNICATION MANHOLE TYPE "B" ESD010.DWG
DETAIL "IX"	GROUNDING OF ELECTRICAL MANHOLES ESD011.DWG
DETAIL "X"	DETAIL OF DEAD-ENDING DUCT BANK ESD012.DWG
DETAIL "XI"	DUCT BANK DETAILS - TYPICAL ARRANGEMENT ESD013.DWG

INDEX OF STANDARD TECHNICAL SPECIFICATIONS
JUNE 4, 1997

DIVISION 2 - SITEWORK

DISCIPLINE INSTRUCTIONS	SECTION NUMBER	TITLE	LAW STATUS
ARCHITECTURAL	02050	DEMOLITION AND DISPOSAL	A REVISED 9/21/89
ENVIRONMENTAL	02070	REMOVAL OF UNDERGROUND STORAGE TANKS AND ANCILLARY EQUIPMENT AND MATERIAL	P 12/14/95
CIVIL SUBMITTALS PG. 3	02073	CUTTING, PATCHING AND REMOVAL	N 10/30/96
ARCHITECTURAL	02075	PARTIAL REMOVALS	P
ARCHITECTURAL SUBMITTALS PG. 10	02076	SELECTIVE DEMOLITION FOR INTERIORS	P 11/4/96
STRUCTURAL SUBMITTALS PG. 6	02077	HYDRODEMOLITION REMOVAL (HIGH VELOCITY WATER JET REMOVAL)	P 10/23/95
ENVIRONMENTAL	02081	ASBESTOS REMOVAL AND DISPOSAL FOR THE PORT AUTHORITY OF NEW YORK AND NEW JERSEY	P 8/7/96
ENVIRONMENTAL	02093	EXTERIOR CONTAINMENT SYSTEMS FOR PAINT REMOVAL (ABRASIVE BLASTING)	N 10/10/95
ENVIRONMENTAL	02097	EXTERIOR PAINT REMOVAL CONTAINMENT SYSTEMS (POWER TOOL/HAND TOOL REMOVAL)	P 5/8/95
ENVIRONMENTAL	02098	POWER TOOL/HAND TOOL PREPARATION OF SURFACES COATED WITH LEAD-BASED PAINT	N 6/9/95
GEOTECHNICAL SUBMITTALS PG. 5	02145	DEWATERING	N 10/25/95
CIVIL NO SUBMITTALS	02150	SLABJACKING OF CONCRETE SLABS	N 2/3/97
GEOTECHNICAL	02164	PRESTRESSED SOIL AND ROCK ANCHORS	P 10/25/95
GEOTECHNICAL	02168	SLURRY WALLS	N 6/13/96
GEOTECHNICAL SUBMITTALS PG. 3	02221	EXCAVATION, BACKFILLING AND FILLING	P 5/26/95
GEOTECHNICAL	02222	EXCAVATION, BACKFILLING AND FILLING (NARROWSCOPE)	P 10/19/95
GEOTECHNICAL	02223	ROCK DOWELS	N 1/17/96
GEOTECHNICAL	02224	ROCK EXCAVATION	P 10/25/96
ENVIRONMENTAL NO	02225	REMOVAL OF UNDERGROUND STORAGE TANKS	N 8/31/89

LEGEND: A = FINAL LAW APPROVAL P = PRELIMINARY LAW REVIEW N = NO LAW REVIEW
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DISCIPLINE INSTRUCTIONS	SECTION NUMBER	TITLE	LAW STATUS
GEOTECHNICAL SUBMITTALS PG. 8	02228	INSTRUMENTATION FOR SETTLEMENT AND GROUND WATER OBSERVATIONS	N 10/6/95
GEOTECHNICAL	02230	HYDRAULIC FILL	N 6/13/96
CIVIL SUBMITTALS PG. 10	02231	AGGREGATE BASE COURSE	P 10/19/95
CIVIL	02241	LIME - CEMENT - FLYASH STABILIZED FILL SAND BASE	A 6/30/88
GEOTECHNICAL	02248	HIGH-STRENGTH GEOTEXTILE	N 11/15/96
GEOTECHNICAL	02249	PRESSURE GROUTING	P
GEOTECHNICAL SUBMITTALS PG. 4	02272	SOIL EROSION AND SEDIMENT CONTROL	P 8/21/95
CIVIL	02274	GEOTEXTILES	P
GEOTECHNICAL SUBMITTALS PG. 4	02355	PILE LOAD TEST STATIC AXIAL COMPRESSIVE	P 12/6/95
GEOTECHNICAL	02356	DYNAMIC PILE TESTING	N 1/17/96
GEOTECHNICAL	02357	PILE LOAD TEST - STATIC AXIAL TENSILE (UPLIFT)	N 1/17/96
GEOTECHNICAL	02358	PILE LOAD TEST - LATERAL LOADS	N 1/17/96
GEOTECHNICAL SUBMITTALS PG. 12	02361	TIMBER PILES	N 10/6/95
GEOTECHNICAL	02362	STEEL H PILES	P 12/6/95
GEOTECHNICAL SUBMITTALS PG. 3	02363	STEEL PIPE PILES	P 12/6/95
GEOTECHNICAL	02364	MONOTUBE PILES	N 6/14/95
GEOTECHNICAL	02366	STEEL SHEET PILING	A REVISED 7/15/93
GEOTECHNICAL	02375	DRILLED MINIPILES	N 1/17/96
GEOTECHNICAL SUBMITTALS PG. 12	02379	CAISSONS (DRILLED SHAFTS)	N 2/18/97

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DISCIPLINE INSTRUCTIONS	SECTION NUMBER	TITLE	LAW STATUS
CIVIL SUBMITTALS PG. 49	02452	RAILROAD TRACKWORK (OTHER THAN PATH RAPID TRANSIT)	N 1/17/95
CIVIL SUBMITTALS PG. 76	02453	OPEN AREA TRACKWORK (PATH RAIL TRANSIT)	P 12/19/95
CIVIL SUBMITTALS PG. 23	02454	BRIDGE TIE REPLACEMENT	N 1/16/96
CIVIL SUBMITTALS PG. 23	02455	RAILROAD TIE REPLACEMENT	N 1/17/95
CIVIL	02456	BALLAST, SURFACE AND ALIGN TRACK	N 10/30/96
GEOTECHNICAL	02480	DREDGING	N 1/17/95
GEOTECHNICAL SUBMITTALS PG. 5	02481	DREDGING (NARROWSCOPE)	N 3/7/95
STRUCTURAL SUBMITTALS PG. 5	02489	TIMBER CONSTRUCTION FOR WATERFRONT STRUCTURES	P 12/6/95
STRUCTURAL SUBMITTALS PG. 5	02490	FENDERS SYSTEMS	N 1/11/96
CIVIL	02501	SILANE SEALER	N 6/12/96
CIVIL	02503	MAGNESIUM PHOSPHATE CONCRETE PATCHING	A
CIVIL SUBMITTALS PG. 12	02506	CONCRETE PAVEMENT PATCHING	N 10/30/96
CIVIL SUBMITTALS PG. 5	02507	PAVEMENT CRACK SEALING	N 2/3/97
CIVIL NO	02509	RAPID SET CONCRETE WITH LATEX AND LATEX WITH STEEL FIBERS	N 12/19/95
CIVIL SUBMITTALS PG. 46	02510	PORTLAND CEMENT CONCRETE FOR PAVING AND SITENWORK (NON-FAA)	N 1/16/96
CIVIL	02512	FIBROUS CONCRETE OVERLAY PAVEMENT	A REVISED 12/11/89
CIVIL 52	02513	PORTLAND CEMENT CONCRETE PAVING (FAA)	N 7/25/95
CIVIL	02514	GLASPEALT CONCRETE BASE COURSE PAVING	N 3/1/94
CIVIL	02519	POLYMER CONCRETE PAVEMENT	N 12/19/95

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DISCIPLINE INSTRUCTIONS	SECTION NUMBER	TITLE	LAW STATUS
ARCHITECTURAL	02520	ASPHALTIC BLOCK PAVERS	N 8/8/95
CIVIL	02545	AERONAUTICAL PAVEMENT GROOVING AND REGROOVING	N 6/12/96
CIVIL SUBMITTALS PG. 54	02551	ASPHALT CONCRETE PAVING	P 4/24/97
CIVIL SUBMITTALS PG. 4	02555	ASPHALT BOND COAT	N 10/5/95
CIVIL	02556	ASPHALT CONCRETE PAVING WITH LATEX ADDITIVE (NON-FAA)	A REVISED 12/9/93
CIVIL SUBMITTALS PG. 7	02557	COAL TAR EPOXY SEALCOAT	N 2/10/97
CIVIL	02559	RECYCLED ASPHALT CONCRETE PAVING	A REVISED 12/9/93
CIVIL SUBMITTALS PG. 50	02561	ASPHALT CONCRETE PAVING (FAA)	P 4/24/97
CIVIL SUBMITTALS PG. 46	02563	LATEX MODIFIED ASPHALT CONCRETE PAVING WITH BLENDED BITUMEN (FAA)	N 4/24/97
CIVIL SUBMITTALS PG. 45	02564	ASPHALT CONCRETE PAVING WITH BLENDED BITUMEN (FAA)	N 4/24/97
CIVIL	02566	ASPHALT CONCRETE DRAINAGE MIX (FAA)	N 8/9/96
CIVIL	02567	ASPHALT CONCRETE PAVING MEMBRANE (FAA)	N 8/9/96
CIVIL SUBMITTALS PG. 13	02569	RUBBERIZED COAL TAR EMULSION SEALCOAT	N 2/3/97
CIVIL	02570	KERF CUTS FOR DRAINAGE	N 10/30/96
CIVIL SUBMITTALS PG. 8	02571	KERF CUTS FOR ELECTRICAL CONDUITS	N 10/30/96
CIVIL	02574	ABRASIVE BLASTING OF PAVEMENTS	N 10/30/96
CIVIL	02575	PAVEMENT MILLING	N 10/30/96
CIVIL SUBMITTALS PG. 5	02576	GRIT TAR SLURRY SEALCOAT	N 2/3/97
CIVIL SUBMITTALS PAGE 11	02577	LATEX MODIFIED CONCRETE	N 3/17/97
CIVIL SUBMITTALS PAGE 7	02578	PAVEMENT JOINT SEALING	N 10/30/96
CIVIL SUBMITTALS PG. 15	02579	EMULSIFIED ASPHALT SLURRY SEALCOAT	N 10/30/96

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<u>DISCIPLINE</u> <u>INSTRUCTIONS</u>	<u>SECTION</u> <u>NUMBER</u>	<u>TITLE</u>	<u>LAW</u> <u>STATUS</u>
TRAFFIC	02580	THERMOPLASTIC REFLECTORIZED PAVEMENT MARKINGS	A
TRAFFIC	02582	PREFORMED REMOVABLE RETRO-REFLECTIVE PAVEMENT MARKING TAPE	A
CIVIL NO	02583	HIGH PERFORMANCE CONCRETE OVERLAY PAVEMENT	N 7/11/95
CIVIL NO	02588	TRAFFIC PAINT PAVEMENT MARKINGS	N 10/18/95
CIVIL SUBMITTALS PG. 12	02610	EXTERIOR SANITARY SEWER SYSTEM	P 12/14/95
CIVIL SUBMITTALS PG. 15	02664	EXTERIOR WATER SUPPLY SYSTEM - DUCTILE IRON PIPE FOR CITY OF NEWARK, NJ FACILITIES	N 5/29/96
CIVIL SUBMITTALS PG. 16	02665	EXTERIOR WATER SUPPLY SYSTEM - DUCTILE IRON PIPE FOR NEW YORK FACILITIES	P 5/29/96
CIVIL SUBMITTALS PG. 16	02666	EXTERIOR WATER SUPPLY SYSTEM - DUCTILE IRON PIPE FOR CITY OF ELIZABETH, NJ FACILITIES	N 5/29/96
CIVIL SUBMITTALS PG. 15	02667	EXTERIOR WATER SUPPLY SYSTEM - DUCTILE IRON PIPE FOR JERSEY CITY, NJ FACILITIES	P 5/29/96
CIVIL SUBMITTALS PG. 9	02668	EXTERIOR WATER SUPPLY SYSTEM - STEEL PIPE NEW YORK FACILITIES	P 10/10/95
CIVIL	02711	SUBDRAINAGE SYSTEM	P 9/26/95
CIVIL SUBMITTALS PG. 11	02720	MANHOLES AND DRAINAGE STRUCTURES	P 10/10/95
CIVIL	02721	STORM DRAINAGE SYSTEM - REINFORCED CONCRETE PIPE (INFILTRATION/EXFILTRATION TESTING REQUIRED)	P 10/10/95
CIVIL	02722	STORM DRAINAGE SYSTEM - REINFORCED CONCRETE PIPE (INFILTRATION/EXFILTRATION TESTING NOT REQUIRED)	P 10/10/95
GEOTECHNICAL SUBMITTALS PG. 4	02750	VERTICAL WICK DRAINS	N 10/6/95
CIVIL SUBMITTALS PG. 7	02765	CLEANING STORM DRAINAGE AND SANITARY SEWER SYSTEMS	N 2/3/97
CIVIL SUBMITTALS PG. 11	02831	PVC-COATED STEEL CHAIN LINK FENCE AND GATES	N 5/8/95
CIVIL SUBMITTALS PG. 11	02832	METALLIC-COATED STEEL CHAIN LINK FENCE AND GATES	P 9/26/95
CIVIL	02840	BOX BEAM GUIDE RAIL	N 10/16/95
CIVIL	02841	W-BEAM AND THRIE-BEAM GUIDE RAIL	N 10/17/95
TRAFFIC	02842	TEMPORARY TRAFFIC BARRIERS	A 6/28/90

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DISCIPLINE INSTRUCTIONS	SECTION NUMBER	TITLE	LAW STATUS
TRAFFIC SUBMITTALS PG. 5	02844	TEMPORARY CONCRETE BARRIERS	P 8/7/96
TRAFFIC	02845	TEMPORARY TIMBER CURB	N 7/25/95
TRAFFIC	02846	TEMPORARY WATER-FILLED BARRIER	N 7/25/95
TRAFFIC NO	02847	CLOSED LOOP TRAFFIC SIGNAL CONTROL SYSTEM	N 8/24/95
NOTE: PAGES 2 AND 24, AVAILABLE HARD COPY ONLY ARE LOCATED IN CONTRACT UNIT'S SPEC DRAWER, SUITE 5147			
TRAFFIC NO	02849	TEMPORARY TRAFFIC SIGNAL EQUIPMENT	N 10/16/95
TRAFFIC NO	02850	PLYWOOD SIGN PANELS AND WOOD SIGN POSTS	A
TRAFFIC NO	02851	ALUMINUM SIGN PANELS	N 1/17/96
ENVIRONMENTAL NO	02892	HANDLING, TREATMENT AND DISPOSAL OF NON-HAZARDOUS SOIL MATERIALS (NEW JERSEY)	N 4/11/97
ENVIRONMENTAL NO	02894	HANDLING, TREATMENT AND DISPOSAL OF NON-HAZARDOUS SOIL MATERIALS (NEW YORK)	N 1/17/96
ENVIRONMENTAL	02899	DISPOSAL OF SPENT ABRASIVE AND PAINT AND COATING MATERIAL	N 10/10/95
LANDSCAPING	02920	SCREENED TOPSOIL	P 9/26/95
LANDSCAPING	02930	SEEDING (HYDRO-MULCH & DUST RETARDANT)	P 9/1/95
LANDSCAPING	02931	SEEDING (SALT HAY MULCH)	N 9/1/95
LANDSCAPING	02932	SODDING	P 12/14/95
LANDSCAPING	02933	TIDAL WETLAND SEEDING, PLANTING AND MAINTENANCE	N 11/4/96
LANDSCAPING	02950	TREES PLANTED IN GROUND	P 12/14/95
LANDSCAPING	02951	TREES PLANTED IN CONTAINERS	N 5/29/95
LANDSCAPING	02952	SHRUBS AND GROUND COVER PLANTED IN GROUND	N 11/29/95
LANDSCAPING	02953	SHRUBS AND GROUND COVER PLANTED IN CONTAINERS	N 5/26/95
LANDSCAPING	02954	TREES, SHRUBS AND GROUND COVER IN GROUND	P 12/6/95
LANDSCAPING	02955	TREES, SHRUBS AND GROUND COVER IN CONTAINERS	N 5/30/95

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DISCIPLINE INSTRUCTIONS	SECTION NUMBER	TITLE	LAW STATUS
LANDSCAPING	02956	TREE TRANSPLANTING - MACHINE DUG (SIMPLE TOPSOIL MIX)	N 8/4/95
LANDSCAPING	02957	TREE TRANSPLANTING - B & B (SIMPLE TOPSOIL MIX)	N
LANDSCAPING	02958	TREE REMOVAL AND DISPOSAL	N 10/19/95
LANDSCAPING NO	02959	ADDING COMPOST	N 11/13/95
LANDSCAPING	02971	MAINTENANCE OF PERMANENT PLANTING	P 11/13/95
LANDSCAPING APPENDIX - RESET 7	02974	MINOR MAINTENANCE OF PERMANENT PLANTING	A REVISED 7/8/92
LANDSCAPING	02975	TREE PRUNING	P 10/19/95
LANDSCAPING	02976	CROWN REDUCTION	P 10/23/95
LANDSCAPING	02990	TIMBER PLANTER BOXES	A
LANDSCAPING	02991	TIMBER PLANTER BOXES WITH POLY-LINER	A
LANDSCAPING	02992	CAST CONCRETE PLANTERS	A 3/23/89
LANDSCAPING	02993	BONDED AGGREGATE PAVEMENT OVER TREE PITS	A 4/28/94
LANDSCAPING	02994	VERTICAL DRAINS IN TREE PITS	A 3/30/89
LANDSCAPING	02995	GRAVEL MULCH	A 8/22/89
LANDSCAPING	02996	CAST CONCRETE PLANTERS WITH "GEOSCAPE"	A
LANDSCAPING	02998	GRAVEL MULCH - NON LANDSCAPE AREAS	N 8/9/95

DIVISION 3 - CONCRETE

DISCIPLINE	SECTION NUMBER	TITLE	LAW STATUS
STRUCTURAL	03100	CONCRETE FORMWORK	P 9/29/95
STRUCTURAL	03115	BRIDGE DECK METAL FORM	N 8/21/95
STRUCTURAL	03200	CONCRETE REINFORCEMENT	P 9/29/95
STRUCTURAL	03300	CONCRETE (LONG FORM)	P 9/26/95

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DISCIPLINE INSTRUCTIONS	SECTION NUMBER	TITLE	LAW STATUS
STRUCTURAL	03302	CONCRETE (SHORT FORM)	P 11/21/95
ARCHITECTURAL	03330	ARCHITECTURAL CONCRETE FINISHES	N 11/8/96
STRUCTURAL	03361	SHOTCRETE	N 9/29/95
STRUCTURAL	03364	CONCRETE PLACED UNDERWATER	P 12/6/95
STRUCTURAL	03420	PRECAST PRESTRESSED CONCRETE FOR BUILDING CONSTRUCTION	P 10/25/96
ARCHITECTURAL	03450	ARCHITECTURAL PRECAST CONCRETE	P 8/20/93
CIVIL	03601	GROUTING (METALLIC)	A 10/3/88
CIVIL	03602	GROUTING (NON-METALLIC)	A 5/31/88
STRUCTURAL	03730	CONCRETE SPALL REPAIRS	P 3/22/96
STRUCTURAL	03734	CONCRETE CRACK REPAIR	N 2/12/96
CIVIL NO	03740	ACRYLIC CONCRETE SEALER	P

DIVISION 4 - MASONRY

DISCIPLINE	SECTION NUMBER	TITLE	LAW STATUS
ARCHITECTURAL	04100	MASONRY MORTAR	A 9/27/88
ARCHITECTURAL	04110	MASONRY GROUT	A 9/27/88
ARCHITECTURAL	04120	COLOR MASONRY MORTAR	A 1/19/89
ARCHITECTURAL	04170	JOINT REINFORCEMENT AND STEEL REINFORCING	A REVISED 3/31/94
ARCHITECTURAL	04212	BRICK MASONRY	A REVISED 10/4/93
ARCHITECTURAL	04220	CONCRETE MASONRY UNITS	A REVISED 8/13/93
ARCHITECTURAL	04270	HOLLOW GLASS MASONRY UNITS	A

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<u>DISCIPLINE</u> INSTRUCTIONS	<u>SECTION</u> NUMBER	<u>TITLE</u>	<u>LAW</u> STATUS
ARCHITECTURAL	04271	HOLLOW GLASS MASONRY UNITS WITH UNIT DESIGN SHOWN ON CONTRACT DRAWINGS	A
ARCHITECTURAL	04455	MARBLE - EXTERIOR	A 4/18/90
ARCHITECTURAL	04460	LIMESTONE-EXTERIOR	A
ARCHITECTURAL	04465	GRANITE - EXTERIOR	A 4/18/90
ARCHITECTURAL	04466	REUSED GRANITE	A
ARCHITECTURAL	04520	MASONRY RESTORATION - TUCKPOINTING	A

DIVISION 5 - METALS

<u>DISCIPLINE</u>	<u>SECTION</u> NUMBER	<u>TITLE</u>	<u>LAW</u> STATUS
STRUCTURAL	05120	STRUCTURAL STEEL	P 9/25/96
STRUCTURAL	05210	STEEL JOISTS	N 1/11/96
STRUCTURAL	05311	STEEL DECK	P 12/8/95
ARCHITECTURAL	05400	COLD-FORMED METAL FRAMING AND SHEATHING SYSTEM (INTERIOR AND EXTERIOR CONSTRUCTION)	P 10/17/95
ARCHITECTURAL	05506	MISCELLANEOUS STEEL	P 10/3/95
ARCHITECTURAL	05514	METAL STAIRS - INTERIOR	A 5/1/90
ARCHITECTURAL	05521	ALUMINUM PIPE HANDRAILS AND RAILINGS	A 5/1/90
ARCHITECTURAL	05522	STAINLESS STEEL PIPE HANDRAILS AND RAILINGS	A 8/14/89
ARCHITECTURAL APPENDIX RESET 23	05580	SHEET METAL FABRICATIONS	P 9/26/95
ARCHITECTURAL APPENDIX RESET 11	05585	SHEET METAL FABRICATIONS - SHORT FORM	N 10/30/96
ARCHITECTURAL	05700	ORNAMENTAL METALWORK	P 10/2/95

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<u>DISCIPLINE</u> INSTRUCTIONS	<u>SECTION</u> NUMBER	<u>TITLE</u>	<u>LAW</u> STATUS
ARCHITECTURAL	05820	PREFABRICATED EXPANSION JOINT ASSEMBLIES	P 11/21/95
ARCHITECTURAL	05825	EXTERIOR EXPANSION JOINT ASSEMBLIES - SEISMIC TYPE	P

DIVISION 6 - WOOD AND PLASTICS

<u>DISCIPLINE</u>	<u>SECTION</u> NUMBER	<u>TITLE</u>	<u>LAW</u> STATUS
ARCHITECTURAL	06100	ROUGH CARPENTRY	A 10/12/89
ARCHITECTURAL	06105	MISCELLANEOUS CARPENTRY	P
ARCHITECTURAL	06400	CUSTOM CASEWORK	N 10/30/96
ARCHITECTURAL NO	06441	LAMINATED WOOD HANDRAILS AND GUARDRAILS	A
ARCHITECTURAL	06510	IMPACT ATTENUATOR COVERS	A 4/20/90
ARCHITECTURAL	06611	FIBERGLASS REINFORCED GRATINGS (1-1/2" X 1-1/2" SQUARE MESH)	N 2/5/96

DIVISION 7 - THERMAL AND MOISTURE PROTECTION

<u>DISCIPLINE</u>	<u>SECTION</u> NUMBER	<u>TITLE</u>	<u>LAW</u> STATUS
ARCHITECTURAL	07115	RUBBERIZED ASPHALT SHEET WATERPROOFING	A REVISED 8/30/93
ARCHITECTURAL	07120	FLUID-APPLIED WATERPROOFING	N
ARCHITECTURAL	07160	ASPHALTIC DAMPPROOFING - COLD-APPLIED SEMI-FIBRATED SEMI - MASTIC	A
ARCHITECTURAL	07162	ASPHALTIC DAMPPROOFING - HOT APPLIED	A
ARCHITECTURAL	07164	ASPHALTIC DAMPROOFING - COLD APPLIED - SEMI-FIBRATED SEMI-MASTIC EMULSION	A
ARCHITECTURAL	07166	ASPHALTIC DAMPPROOFING - COLD APPLIED FIBRATED MASTIC EMULSION	A
ARCHITECTURAL	07168	ASPHALTIC DAMPPROOFING - COLD-APPLIED NONFIBRATED MASTIC (LIQUID)	A
ARCHITECTURAL	07204	RIGID INSULATION	A

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DISCIPLINE INSTRUCTIONS	SECTION NUMBER	TITLE	LAW STATUS
ARCHITECTURAL	07206	LOOSE FILL INSULATION	A
ARCHITECTURAL NO	07211	SEMI-RIGID FIBER BOARD INSULATION	P
ARCHITECTURAL	07212	BLANKET TYPE BUILDING INSULATION - FOIL FACED	A 5/3/90
ARCHITECTURAL	07215	SPRAYED-ON MINERAL FIBER TREATMENT	A
ARCHITECTURAL APPENDIX RESET 16	07250	SPRAYED-ON CEMENTITIOUS FIREPROOFING	A 3/23/94
ARCHITECTURAL	07252	SPRAYED-ON CEMENTITIOUS FIREPROOFING - MEDIUM DENSITY	A
ARCHITECTURAL APPENDIX RESET 15	07255	SPRAYED-ON MINERAL FIBER FIREPROOFING	A
ARCHITECTURAL APPENDIX RESET 10	07259	SPRAYED-ON CEMENTITIOUS FIREPROOFING - SHORT FORM	N 10/30/96
ARCHITECTURAL	07270	FIRESTOPPING	N 11/4/96
ARCHITECTURAL	07405	PREFORMED EXTERIOR CEILING PANELS - STEEL	A
ARCHITECTURAL	07410	PREFORMED ROOF PANELS	N 10/30/96
ARCHITECTURAL NO	07415	ARCHITECTURAL WALL PANELS - ALUMINUM	N 6/12/96
ARCHITECTURAL	07416	PREFORMED WALL PANELS - STEEL	P 11/4/96
ARCHITECTURAL	07418	PREFORMED WALL PANELS - ALUMINUM	A
ARCHITECTURAL APPENDIX - RESET 12	07530	FULLY ADHERED SINGLE-PLY THERMOPLASTIC MEMBRANE ROOF SYSTEM WITH MECHANICALLY FASTENED INSULATION	N 11/22/96
ARCHITECTURAL	07540	COATED POLYURETHANE FOAM ROOFING SYSTEM	N 11/22/96
ARCHITECTURAL APPENDIX - RESET 16 NO	07560	MECHANICALLY ATTACHED SINGLE-PLY THERMOPLASTIC MEMBRANE RE-ROOFING SYSTEM	N 11/22/96
ARCHITECTURAL APPENDIX - RESET 32	07568	SEBS MODIFIED BITUMEN ROOFING SYSTEM	N 11/22/96
ARCHITECTURAL	07620	PREFABRICATED FORMED ALUMINUM FASCIA PANEL SYSTEMS	A
ARCHITECTURAL	07625	METAL COPING	A
ARCHITECTURAL NO	07627	METAL CAP FLASHING AND GRAVEL STOPS	A

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<u>DISCIPLINE</u> INSTRUCTIONS	<u>SECTION</u> NUMBER	<u>TITLE</u>	<u>LAW</u> <u>STATUS</u>
ARCHITECTURAL	07650	FLEXIBLE FLASHING - LAMINATED SHEET	N 1/16/96
ARCHITECTURAL	07655	FLEXIBLE FLASHING - ELASTIC SHEET	A
ARCHITECTURAL	07720	PREFABRICATED CURB AND EQUIPMENT SUPPORT UNITS	A 6/21/90
ARCHITECTURAL APPENDIX - RESET 6	07721	ROOF HATCHES AND HEAT/SMOKE VENTS	N 2/16/96
ARCHITECTURAL	07810	METAL FRAMED SKYLIGHTS	P
ARCHITECTURAL	07825	PLASTIC GLAZED SKYLIGHTS	N
ARCHITECTURAL	07910	COMPRESSION SEALS	P 12/14/95
ARCHITECTURAL	07920	SEALANTS	P 3/22/96
ARCHITECTURAL	07923	URETHANE SEALANTS	A 6/19/90
ARCHITECTURAL	07925	SEALANTS - SHORT FORM	N 2/3/97

DIVISION 8 - DOORS AND WINDOWS

<u>DISCIPLINE</u>	<u>SECTION</u> NUMBER	<u>TITLE</u>	<u>LAW</u> <u>STATUS</u>
ARCHITECTURAL	08110	CUSTOM HOLLOW METAL	P 10/17/95
ARCHITECTURAL	08305	ACCESS DOORS - WALL TYPE	A 7/6/90
ARCHITECTURAL	08306	ACCESS DOORS - FLOOR TYPE	A
ARCHITECTURAL	08307	ACCESS DOORS - CEILING TYPE	A
ARCHITECTURAL	08330	OVERHEAD COILING DOORS	N 11/15/96
ARCHITECTURAL	08340	OVERHEAD COILING GRILLES	N 11/13/96
ARCHITECTURAL	08405	METAL AND GLASS ENTRANCES AND STOREFRONT	N 7/11/95
ARCHITECTURAL	08460	AUTOMATIC ENTRANCE DOORS - SLIDING AND SWINGING TYPES	P 12/21/94
ARCHITECTURAL	08470	REVOLVING ENTRANCE DOORS	N 6/28/95
ARCHITECTURAL	08510	STEEL WINDOWS	A

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DISCIPLINE INSTRUCTIONS	SECTION NUMBER	TITLE	LAW STATUS
ARCHITECTURAL	08520	ALUMINUM WINDOWS	A
ARCHITECTURAL APPENDIX - RESET 9	08715	FINISH HARDWARE	A 11/1/90
ARCHITECTURAL	08805	GLASS AND GLAZING	P 8/7/96
ARCHITECTURAL	08808	GLASS AND GLAZING - SHORT FORM	N 6/12/96
ARCHITECTURAL	08840	GLAZING PLASTICS	A 9/25/91
ARCHITECTURAL APPENDIX - RESET 29	08920	ALUMINUM CURTAIN WALL AND ENTRANCES	N 5/8/95
ARCHITECTURAL SUBMITTALS PG 15	08921	ALUMINUM CURTAIN WALL AND ENTRANCES - SHORT FORM	N 2/3/97
ARCHITECTURAL SUBMITTALS PG 18	08922	STAINLESS STEEL CURTAIN WALL AND ENTRANCES	N 2/25/97
ARCHITECTURAL	08930	HOLLOW METAL WINDOW WALL	P
ARCHITECTURAL	08955	TRANSLUCENT FIBERGLASS SKYLIGHTS AND WALL PANELS	P 1/13/95

DIVISION 9 - FINISHES

DISCIPLINE	SECTION NUMBER	TITLE	LAW STATUS
ARCHITECTURAL	09205	METAL LATHING AND FURRING	A 5/17/89
ARCHITECTURAL	09206	METAL FURRING AND LATHING - CEILING SUPPORT SYSTEMS	A 5/17/89
ARCHITECTURAL SUBMITTALS PG. 21	09207	VENEER PLASTER	N 2/3/97
ARCHITECTURAL	09210	GYPSUM PLASTER	A 8/14/89
ARCHITECTURAL	09220	PORTLAND CEMENT PLASTER	A 7/27/89
ARCHITECTURAL SUBMITTALS PAGE 13	09230	GYPSUM PLASTER - SHORT FORM	N 10/30/96
ARCHITECTURAL	09250	GYPSUM DRYWALL	P 9/26/95
ARCHITECTURAL	09253	GYPSUM DRYWALL - INTERIOR CEILINGS AND SOFFITS	A 9/27/88
ARCHITECTURAL	09255	GYPSUM DRYWALL - EXTERIOR CEILINGS AND SOFFITS	P 8/20/93
ARCHITECTURAL	09270	DRYWALL SHAFT SYSTEMS	A

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DISCIPLINE INSTRUCTIONS	SECTION NUMBER	TITLE	LAW STATUS
ARCHITECTURAL	09310	CERAMIC TILE	A
ARCHITECTURAL	09330	QUARRY & PAVER TILE	P
ARCHITECTURAL	09332	GRANITE TILE AND PORCELAIN PAVER TILE	N
ARCHITECTURAL NO	09336	THIN-SET GRANITE TILE INSTALLATION (THIN SEPARATION MEMBRANE METHOD)	A 5/7/91
ARCHITECTURAL SUBMITTALS PAGE 10	09441	EPOXY MATRIX TERRAZZO	N 2/18/97
ARCHITECTURAL	09445	PRECAST TERRAZZO PANELS AND FLOORING	P
ARCHITECTURAL	09451	INTERIOR STONE FACING	N 6/12/96
ARCHITECTURAL	09501	SUSPENDED CONCEALED-SPLINE ACOUSTICAL TILE CEILINGS	P 9/26/95
ARCHITECTURAL	09503	LAY-IN PANEL ACOUSTICAL CEILINGS	P 12/21/95
ARCHITECTURAL	09513	SNAP-IN METAL PAN CEILINGS	A 4/19/90
ARCHITECTURAL	09514	EXTERIOR SNAP-IN METAL PAN CEILINGS	P
ARCHITECTURAL	09515	LINEAR METAL CEILINGS	A 4/19/90
ARCHITECTURAL SUBMITTALS PG. 14	09546	METAL PLANK CEILINGS	N 2/3/97
ARCHITECTURAL SUBMITTALS PG. 12	09547	STAINLESS STEEL CEILINGS	N 2/3/97
ARCHITECTURAL	09600	STONE PAVING AND FLOORING - INTERIOR AND EXTERIOR TYPES	N 6/12/96
ARCHITECTURAL	09660	RESILIENT TILE FLOORING	A REVISED 8/93
ARCHITECTURAL	09664	RAISED PROFILE RUBBER TILE RESILIENT FLOORING	A REVISED 1/4/90
ARCHITECTURAL	09680	CARPET TILE	P 10/17/95
ARCHITECTURAL	09690	BROADLOOM CARPET - WOVEN, AXMINSTER TYPE	P
ARCHITECTURAL	09695	BROADLOOM CARPET	P 4/27/95
ARCHITECTURAL	09705	RESINOUS FLOORING	N 11/4/96
ARCHITECTURAL APPENDIX - 12	09910	PAINTING	P 9/26/95

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ARCHITECTURAL APPENDIX - 16	09911	REPAINTING METAL FABRICATIONS	A
ARCHITECTURAL	09962	VINYL WALL COVERING	A

DIVISION 10 - SPECIALTIES

<u>DISCIPLINE</u>	<u>SECTION</u> <u>NUMBER</u>	<u>TITLE</u>	<u>LAW</u> <u>STATUS</u>
ARCHITECTURAL APPENDIX - RESET 9	10160	TOILET PARTITIONS	A 12/17/90
ARCHITECTURAL	10210	METAL WALL LOUVERS	P 11/4/96
ARCHITECTURAL	10270	ACCESS FLOORING	A 9/25/91
ARCHITECTURAL	10350	FLAGPOLES - ALUMINUM	A 5/6/91
ARCHITECTURAL APPENDIX - RESET 30	10436	EXTERIOR SIGNAGE SYSTEMS	P 10/3/95
ARCHITECTURAL APPENDIX - RESET 28	10440	INTERIOR SIGNAGE SYSTEMS	P 9/26/95
ARCHITECTURAL	10505	METAL LOCKERS AND LOCKER ROOM BENCHES	A 9/27/88
ARCHITECTURAL	10810	TOILET ACCESSORIES	P 9/26/95

DIVISION 11 - EQUIPMENT

<u>DISCIPLINE</u>	<u>SECTION</u> <u>NUMBER</u>	<u>TITLE</u>	<u>LAW</u> <u>STATUS</u>
ARCHITECTURAL	11022	INSULATED VAULT DOORS	A
ARCHITECTURAL	11025	VAULT DEPOSITORY	A

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DISCIPLINE INSTRUCTIONS	SECTION NUMBER	TITLE	LAW STATUS
ARCHITECTURAL NO	11033	TOLL BOOTHS	A

DIVISION 12 - FURNISHINGS

DISCIPLINE	SECTION NUMBER	TITLE	LAW STATUS
ARCHITECTURAL	12680	FOOT GRILLES	P

DIVISION 13 - SPECIAL CONSTRUCTION

DISCIPLINE	SECTION NUMBER	TITLE	LAW STATUS
MECHANICAL NO	13216	UNDERGROUND HEATING OIL STORAGE TANKS AND APPURTENANCES	P 9/26/95

DIVISION 14 - CONVEYING SYSTEMS

DISCIPLINE	SECTION NUMBER	TITLE	LAW STATUS
MECHANICAL NO	14210	RACK AND PINION ELEVATORS	P 12/15/88
MECHANICAL NO	14240	HYDRAULIC ELEVATOR	P

DIVISION 15 - MECHANICAL

DISCIPLINE	SECTION NUMBER	TITLE	LAW STATUS
MECHANICAL	15310	SPRINKLER FIRE PROTECTION PIPING AND APPURTENANCES	P 11/21/95
MECHANICAL	15311	DIESEL FIRE PUMPS AND ACCESSORY EQUIPMENT	P 12/19/95
MECHANICAL	15312	ELECTRIC FIRE PUMPS AND ACCESSORY EQUIPMENT	N 10/11/95
MECHANICAL	15375	FIRE STANDPIPE SYSTEM PIPING AND APPURTENANCES	N 2/1/96
MECHANICAL	15410	PLUMBING PIPING AND APPURTENANCES	P 8/7/96
MECHANICAL	15430	PLUMBING SPECIALTIES	P 9/26/95
MECHANICAL	15440	PLUMBING FIXTURES	P 8/14/96

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DISCIPLINE INSTRUCTIONS	SECTION NUMBER	TITLE	LAW STATUS
MECHANICAL NO	15451	LIFT STATIONS	P 11/4/96
MECHANICAL	15452	ELEVATOR PIT SUMP PUMPS	P 9/26/95
MECHANICAL	15453	SUBMERSIBLE SEWAGE EJECTORS	N 8/3/95
MECHANICAL	15454	VERTICAL SEWAGE EJECTORS	P 9/26/95
MECHANICAL	15455	SUBMERSIBLE SUMP PUMPS	P 12/14/95
MECHANICAL	15456	VERTICAL SUMP PUMPS	N 8/3/95
MECHANICAL	15457	GAS-FIRED WATER HEATERS	P 9/26/95
MECHANICAL	15458	WATER HEATERS - STEAM-TO-WATER	N 8/3/95
MECHANICAL	15459	ELECTRIC WATER HEATERS	N 8/14/95
MECHANICAL NO	15460	CHILLED DRINKING WATER PIPING AND APPURTENANCES	P 12/14/95
MECHANICAL	15488	NATURAL GAS PIPING AND APPURTENANCES	P 10/4/95
MECHANICAL	15491	PLUMBING INSULATION	P 8/7/96
MECHANICAL	15501	HVAC - PIPING AND APPURTENANCES	P 8/7/96
<p>TYPIST: DUE TO DIFFERENT PRINT SETTINGS THIS SPEC IS STORED IN TWO PARTS. WHEN PRINTING MAKE SURE TO PRINT SECTION 15501 PART ONE OF TWO AND SECTION 15501 PART TWO OF TWO</p>			
MECHANICAL	15502	REFRIGERANT PIPING AND APPURTENANCES	N 10/11/95
MECHANICAL	15503	FUEL OIL PIPING AND APPURTENANCES	N 6/21/96
MECHANICAL	15515	HYDRONIC SPECIALTIES	P 9/26/95
MECHANICAL	15525	STEAM AND CONDENSATE SPECIALTIES	P 12/21/95
MECHANICAL	15526	PIPING EXPANSION JOINTS	N 1/17/96
MECHANICAL	15527	FLOW METERS	P 12/14/95
MECHANICAL	15528	THERMOMETERS AND GAUGES	A

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<u>DISCIPLINE</u> <u>INSTRUCTIONS</u>	<u>SECTION</u> <u>NUMBER</u>	<u>TITLE</u>	<u>LAW</u> <u>STATUS</u>
MECHANICAL	15541	CHILLED AND HOT WATER PUMPS	P 9/26/95
MECHANICAL	15555	CAST IRON HOT WATER BOILERS	N 10/11/95
MECHANICAL NO	15590	FUEL OIL EQUIPMENT	P 12/15/88
MECHANICAL NO	15625	GAS UNIT HEATERS	P 9/26/95
MECHANICAL	15686	PACKAGED HERMETIC RECIPROCATING LIQUID CHILLERS	P 8/7/96
MECHANICAL	15741	AIR-COOLED CONDENSERS	P 12/21/95
MECHANICAL	15830	FIN TUBE RADIATION (HOT WATER)	P 9/26/95
MECHANICAL	15855	AIR HANDLING UNITS	P 8/7/96
MECHANICAL NO	15856	AIR HANDLING UNITS - GAS FIRED	P
MECHANICAL	15860	CENTRIFUGAL FANS	P 9/26/95
MECHANICAL	15865	AXIAL FANS	P 12/14/95
MECHANICAL	15875	AIR CURTAINS - INDIRECT GAS FIRED	N 8/11/95
MECHANICAL	15890	METAL DUCTWORK AND ACCESSORIES	P 8/7/96
MECHANICAL	15931	AIR OUTLETS AND INLETS	P 9/26/95
MECHANICAL	15939	MOTORS AND MOTOR CONTROLLERS	P 8/7/96
MECHANICAL	15940	VIBRATION ISOLATION AND CONTROL	P 8/7/96
MECHANICAL	15945	HVAC INSULATION	P 8/7/96
MECHANICAL	15992	TESTING, ADJUSTING, AND BALANCING OF AIR AND HYDRONIC SYSTEM	P 8/7/96

DIVISION 16 - ELECTRICAL

<u>SECTION</u> <u>DISCIPLINE</u>	<u>NUMBER</u>	<u>LAW</u> <u>TITLE</u>	<u>STATUS</u>
ELECTRICAL	16000	ELECTRICAL GENERAL REQUIREMENTS	A REVISED 10/21/92

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DISCIPLINE INSTRUCTIONS	SECTION NUMBER	TITLE	LAW STATUS
ELECTRICAL NO	16001	OPERATIONS AND MAINTENANCE MANUALS	P 8/20/93
ELECTRICAL	16110	RACEWAYS	P 9/26/95
ELECTRICAL	16114	CABLE TRAYS	N 11/6/96
ELECTRICAL	16115	UNDERGROUND CONDUIT SYSTEMS	P 10/2/96
ELECTRICAL	16120	WIRES, CABLES, SPLICES, TERMINATIONS (600 VOLTS OR LESS)	P 12/30/96
ELECTRICAL	16121	WIRES, CABLES, SPLICES, TERMINATIONS (MEDIUM VOLTAGE: 601 VOLTS TO 34,500 VOLTS, INCLUSIVE)	N 12/26/96
ELECTRICAL	16122	CABLES, SPLICES, TERMINATIONS (D.C. TRACTION POWER CABLE)	P 11/22/95
ELECTRICAL	16124	CABLE-IN-CONDUIT, SPLICES, TERMINATIONS (MEDIUM VOLTS 601 VOLTS TO 34,500 VOLTS INCLUSIVE)	A REVISED 2/19/91
ELECTRICAL	16127	CONTROL/SIGNAL TRANSMISSION MEDIA	P 9/27/95
ELECTRICAL	16128	ARCPROOFING	P 11/22/95
ELECTRICAL	16129	TAXIWAY/RUNWAY WIRES AND CABLES	N 7/25/95
ELECTRICAL	16130	CONDUCTOR BARS	N 1/25/96
ELECTRICAL	16133	CONTROL PANELS, ENCLOSURES/CABINETS, AND TERMINAL BOXES	P 12/14/95
ELECTRICAL	16135	BOXES AND FITTINGS	P 9/26/95
ELECTRICAL	16140	WIRING DEVICES	P 9/26/95
ELECTRICAL	16150	MOTOR POWER AND CONTROL WIRING	N 11/6/96
ELECTRICAL	16190	SUPPORTING DEVICES	N 11/6/96
ELECTRICAL	16250	TRANSFER SWITCHES	N 11/6/96
ELECTRICAL NO	16315	MEDIUM VOLTAGE LOAD INTERRUPTER SWITCHES	P 9/25/90
ELECTRICAL	16316	MEDIUM VOLTAGE METAL-CLAD SWITCHGEAR	N 11/6/96
ELECTRICAL	16320	DRY TYPE TRANSFORMERS - GENERAL PURPOSE - 600 VOLTS OR LESS	A

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DISCIPLINE INSTRUCTIONS	SECTION NUMBER	TITLE	LAW STATUS
ELECTRICAL	16325	DRY-TYPE TRANSFORMERS (MEDIUM VOLTAGE)	N 7/3/96
ELECTRICAL	16326	CAST COIL, DRY-TYPE TRANSFORMERS (MEDIUM VOLTAGE)	N 7/8/96
ELECTRICAL	16327	MEDIUM VOLTAGE LIQUID FILLED POWER TRANSFORMERS 15MVA AND SMALLER-BASE RATING	N 11/6/96
ELECTRICAL	16335	LOW VOLTAGE SWITCHGEAR	P 8/7/96
ELECTRICAL	16450	GROUNDING	N 10/2/96
ELECTRICAL	16451	COUNTERPOISE GROUNDING (CONTROL TOWER)	P
ELECTRICAL NO	16452	ELECTRICAL BONDING	N 12/26/96
ELECTRICAL NO	16455	400 HZ OUTPUT SOLID STATE FREQUENCY CONVERTER FOR GROUND POWER SYSTEM	N 9/21/94
ELECTRICAL	16470	PANELBOARDS	P 11/22/95
ELECTRICAL	16475	OVERCURRENT PROTECTIVE DEVICES (600 VOLTS OR LESS)	N 11/11/96
ELECTRICAL	16477	PROTECTIVE DEVICE COORDINATION STUDY	P 9/26/95
ELECTRICAL NO	16480	MOTOR CONTROL CENTERS	P 8/20/93
ELECTRICAL	16510	LIGHTING SYSTEMS	P 11/1/95
ELECTRICAL NO	16527	HIGH MAST FLOODLIGHTS SYSTEMS	N 12/26/96
ELECTRICAL	16541	AIRPORT ELEVATED RETROREFLECTIVE TAXIWAY EDGE MARKERS	A
ELECTRICAL	16542	RUNWAY/TAXIWAY LIGHT FIXTURES	N 12/27/96
ELECTRICAL	16549	AIRPORT CONSTANT CURRENT REGULATORS	A
ELECTRICAL	16550	ROADWAY LIGHTING	P 9/29/95
ELECTRICAL	16561	TAXIWAY AND RUNWAY GUIDANCE SIGNS	N 10/1/96
ELECTRICAL	16570	FIBEROPTIC CHANGEABLE MESSAGE SIGNS AND LANE CONTROL SIGNALS	N 4/22/96
TRAFFIC NO	16571	VEHICULAR TRAFFIC SIGNAL HEADS	P 9/29/95

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DISCIPLINE INSTRUCTIONS	SECTION NUMBER	TITLE	LAW STATUS
TRAFFIC NO	16572	TRAFFIC SIGNAL STANDARDS	N 9/29/95
TRAFFIC NO	16573	PEDESTRIAN TRAFFIC SIGNALS	P 9/29/95
TRAFFIC NO	16574	TRAFFIC SIGNAL CONTROLLER	P 9/29/95
ELECTRICAL	16620	DIESEL GENERATOR SET (WITH AUXILIARIES)	N 7/9/96
ELECTRICAL NO	16630	SUBSTATION BATTERIES AND BATTERY CHARGERS LEAD - ACID BATTERIES	P
ELECTRICAL NO	16670	LIGHTNING PROTECTION SYSTEM	N 7/9/96
TRAFFIC NO	16680	ROADWAY SURVEILLANCE EQUIPMENT	N 1/17/96
TRAFFIC	16690	PUBLIC PARKING LOT LANE EQUIPMENT	A REVISED 3/11/91
TRAFFIC	16710	VEHICLE DETECTION LOOP	N 1/26/96
TRAFFIC	16711	PREFORMED VEHICLE DETECTION LOOP	N 1/26/96
TRAFFIC	16715	AUTOMATIC ELECTRIC GATE MECHANISM	P
ELECTRICAL SUBMITTALS PAGE 18	16720	FIRE DETECTION ALARM SYSTEM	N 5/8/97
ELECTRICAL	16766	TOLL BOOTH AM/FM RADIO	P
ELECTRICAL	16782	CLOSED CIRCUIT TELEVISION (CCTV) SYSTEM	P 8/7/96
ELECTRICAL SUBMITTALS PG. 8	16858	ELECTRICAL HEATING CABLES	N 2/7/97
ELECTRICAL	16859	ELECTRIC HEATING CABLES (SELF LIMITING TYPE)	A
ELECTRICAL SUBMITTALS PG. 8	16860	ELECTRIC HEATERS	N 2/10/97
ELECTRICAL NO	16861	ELECTRIC BASEBOARD HEATERS	A
ELECTRICAL NO	16901	COLLISION DETECTION SYSTEM	P
ELECTRICAL	16935	SUPERVISORY CONTROL AND DATA ACQUISITION (SCADA) SYSTEM (FOR POWER MONITORING APPLICATIONS)	N 7/26/95
ELECTRICAL NO	16950	INSTALLATION OF TOLLS REGISTRATION SYSTEM EQUIPMENT	P 12/18/88
ELECTRICAL	16998	MEDIUM VOLTAGE SYSTEM COMMISSIONING TESTS	N 11/6/96

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SECTION V.

MISCELLANEOUS

TENANT ALTERATIONS APPLICATION
PROCEDURES AND STANDARDS GUIDE

SECTION V. MISCELLANEOUS

A. EXTERIOR WATER SUPPLY SYSTEM

This section specifies the different requirements for ductile iron pipe and appurtenances to be used for exterior water supply systems for Port Authority facilities in the City of Elizabeth, New Jersey.

1. Quality Assurance

Any entity performing the work shall have at least three years of installation experience on projects with piping systems of types and sizes similar to that required by the PA

2. Delivery, Storage, and Handling

- (a) Ductile iron pipe delivered to the construction site shall be stacked or laid out along the route of the system to be installed.
- (b) Care shall be taken when handling pipe and appurtenances to ensure that neither the cement lining, the exterior coating nor the pipe and appurtenances itself is damaged. Pipe or appurtenances that are damaged will be rejected and replaced in kind at no additional cost to the PA.
- (c) Hydrants, gate valves, valve boxes, glands, gaskets, copper tubing, fittings, and other similar items shall be stored at the construction site under lock and key.

3. Manufacturers

Manufacturer of the ductile iron pipe and appurtenances shall be one of the following and no substitutions will be permitted:

- American Cast Iron Pipe Company (Co.), Birmingham, Alabama
- EBAA Iron Sales, Incorporated (Inc.), Eastland, Texas
- Griffin Pipe Products Co., Florence, New Jersey

- McWane, Inc., Birmingham, Alabama
- United States (U.S.) Pipe & Foundry Co., Birmingham, Alabama

4. **Submittals**

The following is a list of required submittals by the Tenant's consultant:

- (a) Submit resume indicating name, address, and work experience of the entity performing the work prior to the start of the work.
- (b) Submit "Piping Layout" drawings, including details specified in part (d).
- (c) Submit catalog cuts for: pipe, fittings, pipe restraint system, fire hydrants, gate valves, wet tap sleeve and valve, valve boxes, including manhole cover, and paints with manufacturer's installation instructions.
- (d) Submit shop drawings of valve chambers and pipe guards.
- (e) Submit certificate from the ductile iron pipe manufacturer certifying that the ductile iron pipe, including joint restrain system to be used with the pipe, and the rubber gaskets comply with PA requirements.
- (f) Submit certificate from the ductile iron fitting manufacturer certifying that such ductile iron fitting complies with PA requirements.
- (g) Submit certificate from the copper tubing and fitting manufacturer certifying that the copper tubing and fitting comply with PA requirements.
- (h) Submit certificate from the indicator valve and post manufacturer certifying that the indicator valve and post complies with PA requirements.
- (i) Submit certificate from the valve box and manhole cover manufacturer certifying that the valve box and manhole cover comply with the PA requirements.
- (j) Submit to the Manager, Engineering Materials Division, Port Authority Technical Center, 241 Erie Street, Jersey City, New

Jersey 07302-1397, certified test data covering gradation and composition of the crushed stone for pipe bedding proposed for use, together with one 75-pound representative sample of the material.

- (1) Submit the sample in a clean, sturdy container or bag that shall not permit loss of any of the material.
 - (2) Clearly label the container or bag of the sample with: Contract location, title and number, the name of the material supplied, and location of the source.
 - (3) The PA Engineer will approve or disapprove the proposed material within 21 days after receipt of the sample.
 - (4) Do not deliver material to the construction site from any source until the PA Engineer has approved the material from that source.
 - (5) Contractor must notify the PA Engineer when material is delivered to the construction. Field sampling and testing will be performed by Materials Engineering Personnel for quality assurance purpose. These field samples must also receive approval before any of the material is used.
- (k) Submit certificate from the polyethylene film manufacturer that such polyethylene film complies with PA requirements.
- (l) Submit plans, methods, procedures, and types of equipment as applicable for:
- (1) Verifying location of existing utilities
 - (2) Prevention of accumulation of groundwater
 - (3) Hydrostatic pressure and leakage tests
 - (4) Disinfection, flushing and sampling
- (m) Submit, for approval, the name, address and qualifications of the independent testing laboratory to be employed to sample, test and certify the water for conformance to purity standards.
- (n) Submit results of field tests.

- (o) Submit "As Built" drawings conforming to the following:
- (1) Drawings shall be in sheets measuring 34 inches horizontally by 22 inches vertically.
 - (2) A 1/2-inch border shall be provided around the full perimeter of each sheet.
 - (3) A title box measuring 5 inches horizontally by 3 inches vertically shall be located in the lower right hand corner and shall contain the following information from top to bottom:
 - a. "Port Authority of New York and New Jersey"
 - b. Contract title as it appears in the title box on the contract drawings
 - c. Subtitle: "As Built Water Main Locations"
 - d. Name and address of Contractor
 - e. Contract number as it appears in the title box on the contract drawings
 - f. Date of completion
 - (4) The "As Built" drawings shall be drawn to a scale of 1 inch = 30 feet, or approved equal, and shall show the alignment and grade of the water main to such an extent that the exact location of the water main can be determined in the field utilizing such "As Built" drawings. In addition, valves, fittings, including distance between fittings, connections, and thrust restraint method employed shall be shown.

B. HYDRANTS

1. **General Specifications**

Hydrants are generally self-draining and of the frost proof-type. A gate type control valve is provided in the supply line to permit shutting off the water supply for hydrant repairs without interrupting protection to other areas.

Note: Anyone other than designated PA employees is not permitted to operate any hydrants or valves.

2. **Hose Outlets**

(a) **City Hydrants**

- (1) **Low Pressure System:** Generally one 4 1/2 - inch and two 2 1/2 - inch outlets.
- (2) **High Pressure System:** There are no Port Authority facilities within protective range of city high pressure hydrants.

(b) **Private Hydrants**

(1) **Port Elizabeth**

Low Pressure: one 2 1/2 - inch outlet and one 4 1/2 - inch outlet.

(2) **Port Newark**

Low Pressure: two 2 1/2 - inch outlets (some)
one 4 1/2 - inch and two 2 1/2 - inch outlets

3. **Threads**

Threads on outlets shall conform to those specified by the municipal fire department having jurisdiction. Thread characteristics and their uses are as follows:

Thread Standard	Threads Per Inch	O.D. Male	Located At
N.Y. Corporation	8	3.000"	Newark, Elizabeth

To have a proper fit, the number of threads as well as thread dimensions must correspond. All 4 1/2 - inch outlets have 4 threads per inch.

4. **Painting**

All fire hydrants can be identified by a distinctive color. The colors conform to local municipal and private water company standards where hydrants are connected to municipal and independent Water Company mains, and to Port Authority standard where hydrants are connected to private Port Authority mains.

(a) **Newark** - City fire hydrants are painted yellow with green tops.

(b) **Elizabeth** - Fire hydrants are painted red with a silver top.

C. **PVC WIRING**

The PA prohibits the use of PVC insulated wiring and conduits, within buildings, for all construction on Port Authority property, and for construction financed in whole or part by the PA. However, there is an exemption to this PVC policy and it only applies to those buildings that have a dominant occupancy as a warehouse, as classified according to the applicable building code. The permissible wire types shall be those that are allowed by the applicable electrical codes. This exemption to the PVC policy is based on the following:

1. Warehouses are not frequented by the public.
2. Warehouses are occupied by a small staff of regular employees who are familiar with the exit facilities and are capable of immediately exiting in case of a fire.
3. Responding firemen wear protective breathing apparatus as a standard operating procedure.

D. **SOIL BORING DATA**

If required, soil boring data may be available through the Tenant Project Manager upon request. Otherwise, it is the responsibility of the A/E of Record to provide specific information.

E. 1-800-CALL

Tenants doing any underground construction, excavation, or demolition are required by the State of New Jersey to participate in a One-Call Damage Prevention System. They must notify the One-Call Damage Prevention System prior to excavation or demolition. The number to call is 1-800-272-1000.

F. WAREHOUSE STORAGE RACKS

The following information must be included in the TAA for installation of warehouse racks:

1. BOCA classification and description of the goods that will be stored on the racks.
2. BOCA classification of the building where the racks are to be installed.
3. The size and weights of the pallets to be stored.
4. The total weight of the pallet racks and storage load combined.
5. Drawings that show the floor plan of the building and location of the racks in the building.
6. A note on the drawing specifying the applicable code(s).
7. The existing sprinklers and a note establishing existence must be shown in the drawings.
8. Calculations to justify the method of fastening the racks to the floor and the load transfer mechanism.
9. A note on the drawing prohibiting storage on the top tier of the racks.

General PA guidelines for storage rack:

- Floor loading shall not exceed 500 lbs. per square foot, unless the engineer provides calculations to substantiate floor loading.
- Racks shall maintain at least 10 feet between the top of the racks and the sprinkler system.

G. BURNING & WELDING PERMITS

Anyone wishing to perform burning or welding at NJMT must receive a permit issued by the PA. A permit can be obtained at the NJMT Administration Building, Facility Maintenance Section through the TPM. (See Figures 7.16, 7.17).

General Requirements:

- A qualified operator working with properly maintained and approved equipment must only perform burning and welding.
- The welding area should be isolated.
- Valid permits issued by a responsible party and posted at the work site, following a physical inspection of the area.
- Use only standard gas hoses and fittings. (Oxygen is green, acetylene is red)
- Provide a fire watch with a fire extinguisher or charged fire hose in and around the work site during actual work and for 30 minutes thereafter. Take special care to observe the opposite side of the walls and floor below in case of a multi story building.
- Combustibles should be moved 30 inches away from the work site. If this is not possible, they should be covered with a fire resistant drop cloth.
- Good housekeeping is necessary. The area should be swept clean of all dust.
- Remove all flammable liquids including oily deposits.
- Portable welding carts must have a fire extinguisher attached to them, preferably water type.

H. UTILITIES CUT-IN

Electrical and gas cut-in service is to be facilitated through the PA, specifically through the Manager, after an approved inspection has been arranged. Contacting the utility company directly is **not** acceptable; it should be arranged through the TPM.

I. PRINT ROOM POLICY

- Access to the facility print room by Tenants and private consultants will be available during the hours of 9:00 a.m. to 12:00 noon daily by scheduling an appointment with the TPM for a particular project.
- Proprietary information will not be distributed. We can only provide details on buildings where work is being performed. For example, we may not be able to provide details of another tenant's/consultant's TAA to a consultant who is working on an unrelated building. Upon request, we shall provide the needed prints for Port Newark Water Distribution, Port Newark Sewage and Drainage System, and Port Elizabeth Storm and Sanitary Sewer.
- Requests for duplication of non-proprietary items on the directory should be made by calling the Tenant Project Manager at (973) 578-2154. Requests should indicate the page number, description and draw number from the print directory. If the information required is not available in the file room, additional information may be available from the New York office. Requests of this nature should be submitted through the TPM.
- Requests for more than five copies of drawings must be submitted to an outside firm for copying at the requester's expense. All external-duplicating requests must be signed for. Materials will be screened to ensure that confidentiality issues are not compromised. In the event that a request is denied, applicants may submit a Freedom of Information request in writing to FOI Administrator, 67 W, One Trade Center, New York, NY or fax your request to (212) 435-3028. Documents sent out for duplicating must be returned within three business days and collated in the manner that they were received. Failure to do so may result in denial of future requests for information.

SECTION VI.

SINGLE UNIT TRAILER POLICY

**TENANT ALTERATIONS APPLICATION
PROCEDURES AND STANDARDS GUIDE**

SECTION VI. SINGLE UNIT TRAILER POLICY

This section provides an outline for preparing drawings, specifications and computations to accompany Tenant Alteration/Construction Applications.

A. GENERAL REQUIREMENTS

- (a) The Tenant's A/E of Record shall submit eight (8) copies of all drawings and specifications (two (2) copies signed and with raised seal), and eight (8) copies of all calculations (two (2) copies signed and with raised seal). The drawings may be identified as "Manufacturers Drawings". The A/E of Record shall certify that the design meets or exceeds the requirements of the New Jersey Uniform Construction Code.
- (b) The Tenant's A/E of Record shall furnish two (2) paper copies of the "As Built" drawings (signed and with raised seal) upon completion of all work.
- (c) The single unit trailer shall have been approved and inspected within the two years by a designated agency of the Industrialized Building Commission (IBC) located in Herndon, Virginia. **A current IBC seal shall be affixed to the trailer.**

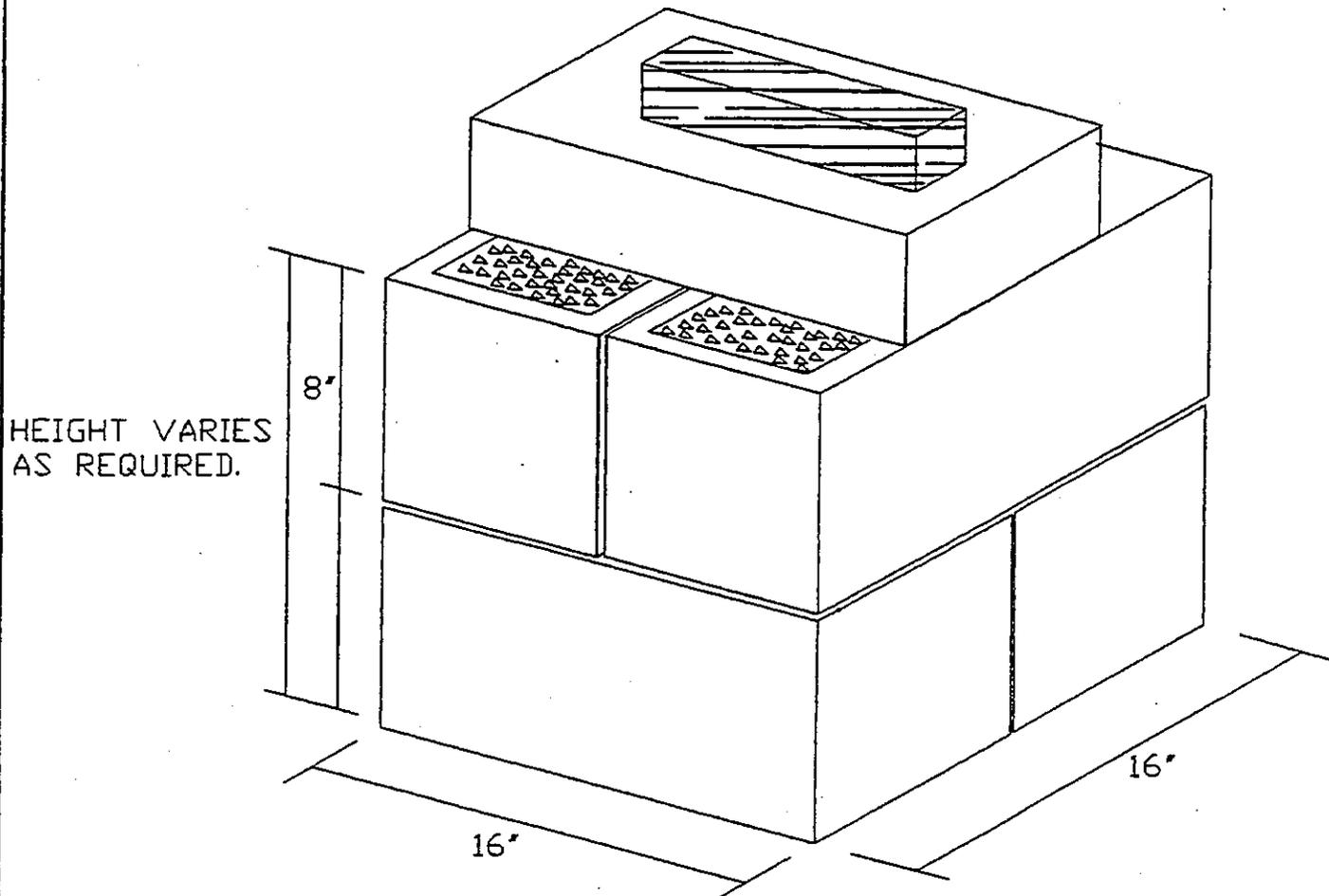
If alterations are made to the single unit trailer after it has been certified by the IBC, then the trailer must be re-certified, either through the IBC's designated agency or through the PA by the submittal of all necessary plans, elevations, sections and documentation of materials and equipment that are part of this alteration. Additionally, more substantive information than that which is required and outlined in these guidelines must delineate the architectural, electrical, mechanical and plumbing systems.

- (d) Design drawings and instructions: The A/E of Record is responsible for the adequacy of design, drawings and specifications. This requirement shall not be the responsibility of the contractor.
- (e) Drawings and specifications delineating the proposed work and calculations supporting the design shall be submitted for review and approval before start of any fieldwork.
- (f) The Resident Engineer of the PA shall inspect the installation of the single unit trailer. Upon satisfactory completion of all the work, a permit to use or occupy will be issued by the PA.

- (g) Note that there are two specific areas of work that are critical in the review process of the documents. First, there is the pre-fabricated single unit trailer itself. Second, there is the work related to the installation of the trailer. Thus, a complete set of **IBC approved drawings (bearing IBC stamp and/or seal)** on the single unit trailer is also required to be submitted.
- (h) All trailers must have a current IBC inspection, showing the IBC stamp, seal and certification number, and installation shall comply with all other applicable requirements of the building code. Provide on the drawing, a dimension for total height of trailer. Show graphic indications or label apron material, enclosing crawl space, beneath the trailer. Show on the drawing, the method of roof drainage.
- (i) The trailer shall use concrete block for its foundation.
- (j) All trailers shall be skirted. The A/E of Record shall include a catalog cut of the skirting.
- (k) Trailers shall be located away from adjacent buildings in accordance with the fire separation distances in BOCA, which provide for fire separation distances and/or fire rated walls.
- (m) The trailer **must be grounded** electrically and for lightning.

B. DRAWINGS REQUIREMENTS - See Subsection II-C

Refer to Section VII for a sample of a completed/acceptable Trailer Package.



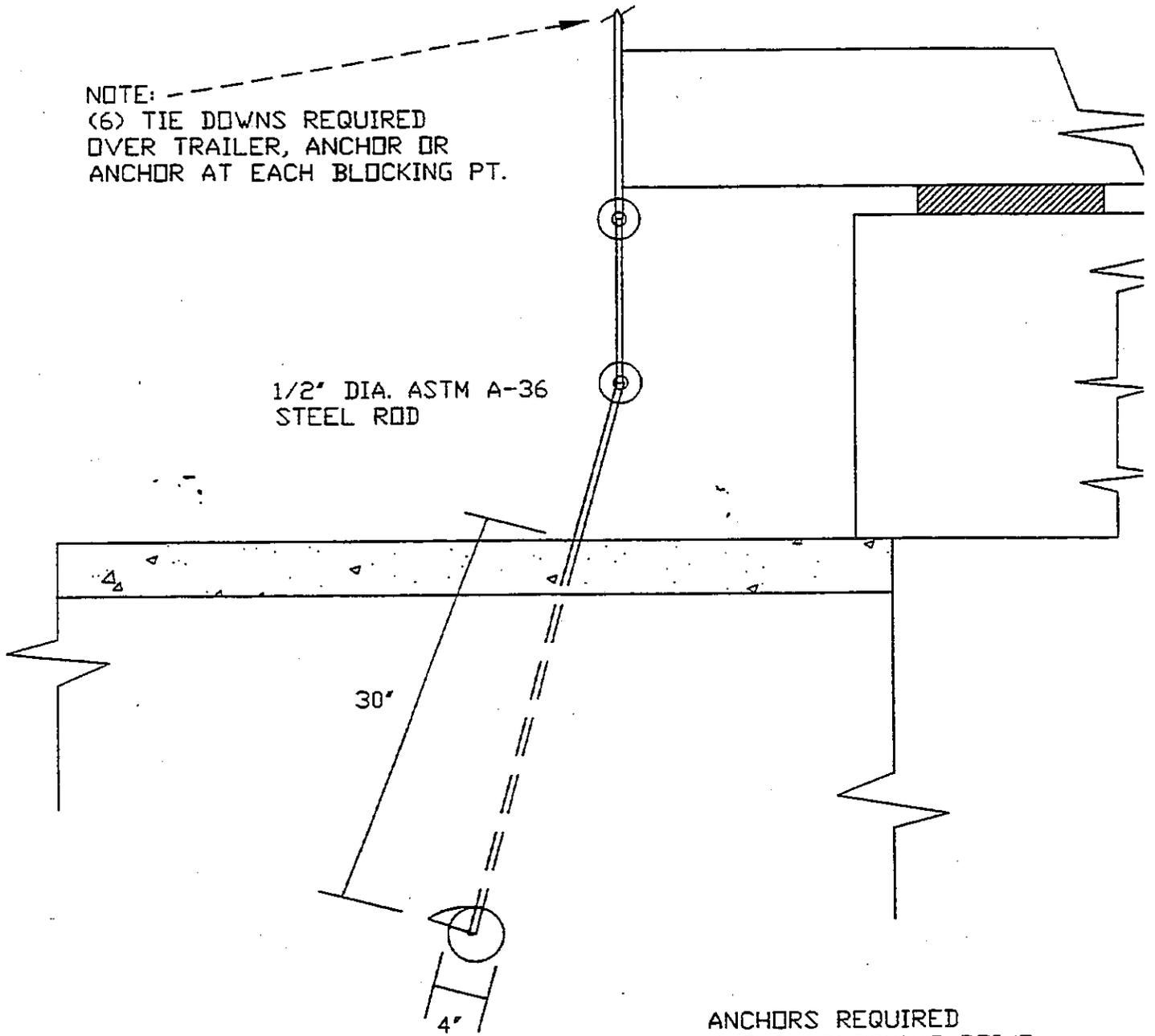
NOTES:

1. USE CONCRETE BLOCK ONLY
2. FILL ALL VOIDS WITH CONCRETE
3. MORTAR ALL JOINTS
4. USE MORTAR, METAL OR SOLID OAK SHIMS ONLY.
5. FOOTINGS MAY BE REQUIRED.

NOTE: "SKIRTING IS REQUIRED"

NOTE: (6) TIE DOWNS REQUIRED
OVER TRAILER, ANCHOR OR
ANCHOR AT EACH BLOCKING PT.

1/2" DIA. ASTM A-36
STEEL ROD

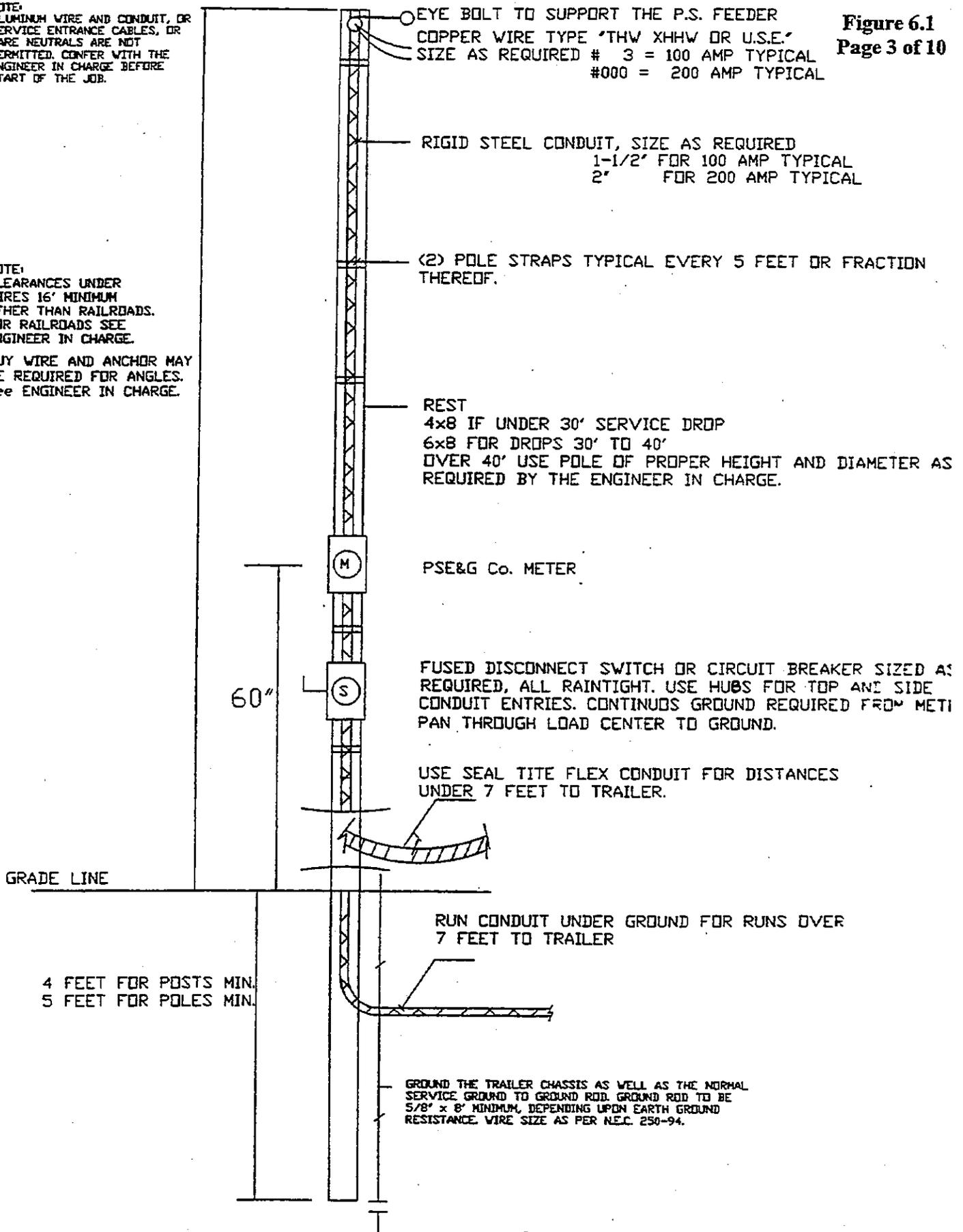


ANCHORS REQUIRED
(1) AT EACH BLOCKING POINT

NOTE:
ALUMINUM WIRE AND CONDUIT, OR
SERVICE ENTRANCE CABLES, OR
BARE NEUTRALS ARE NOT
PERMITTED. CONFER WITH THE
ENGINEER IN CHARGE BEFORE
START OF THE JOB.

NOTE:
CLEARANCES UNDER
WIRES 16' MINIMUM
OTHER THAN RAILROADS.
FOR RAILROADS SEE
ENGINEER IN CHARGE.

GUY WIRE AND ANCHOR MAY
BE REQUIRED FOR ANGLES.
See ENGINEER IN CHARGE.



EYE BOLT TO SUPPORT THE P.S. FEEDER
COPPER WIRE TYPE "THW XHHW OR U.S.E."
SIZE AS REQUIRED # 3 = 100 AMP TYPICAL
#000 = 200 AMP TYPICAL

RIGID STEEL CONDUIT, SIZE AS REQUIRED
1-1/2" FOR 100 AMP TYPICAL
2" FOR 200 AMP TYPICAL

(2) POLE STRAPS TYPICAL EVERY 5 FEET OR FRACTION THEREOF.

REST
4x8 IF UNDER 30' SERVICE DROP
6x8 FOR DROPS 30' TO 40'
OVER 40' USE POLE OF PROPER HEIGHT AND DIAMETER AS REQUIRED BY THE ENGINEER IN CHARGE.

PSE&G Co. METER

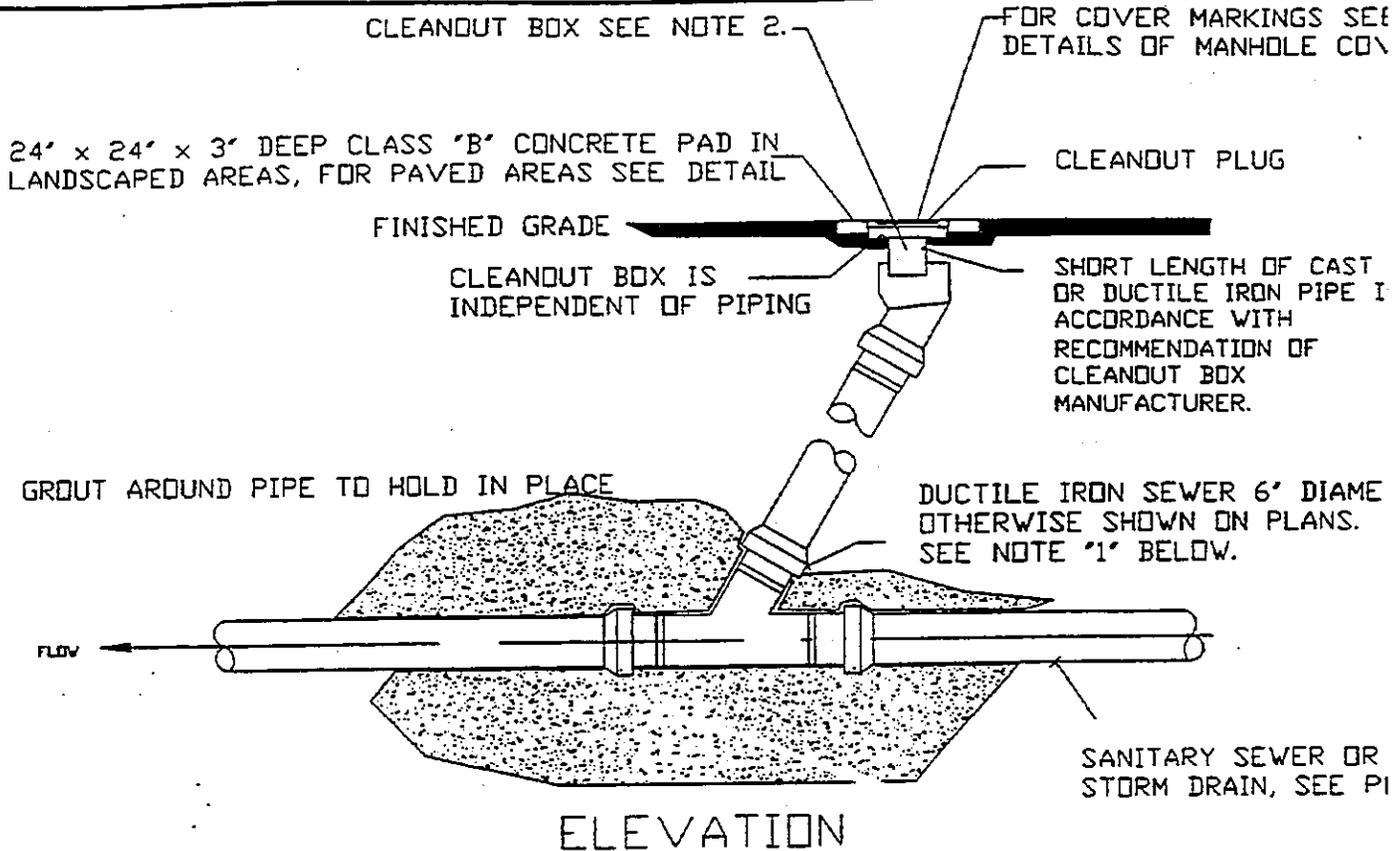
FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER SIZED AS REQUIRED, ALL RAIN TIGHT. USE HUBS FOR TOP AND SIDE CONDUIT ENTRIES. CONTINUOUS GROUND REQUIRED FROM MET PAN THROUGH LOAD CENTER TO GROUND.

USE SEAL TITE FLEX CONDUIT FOR DISTANCES UNDER 7 FEET TO TRAILER.

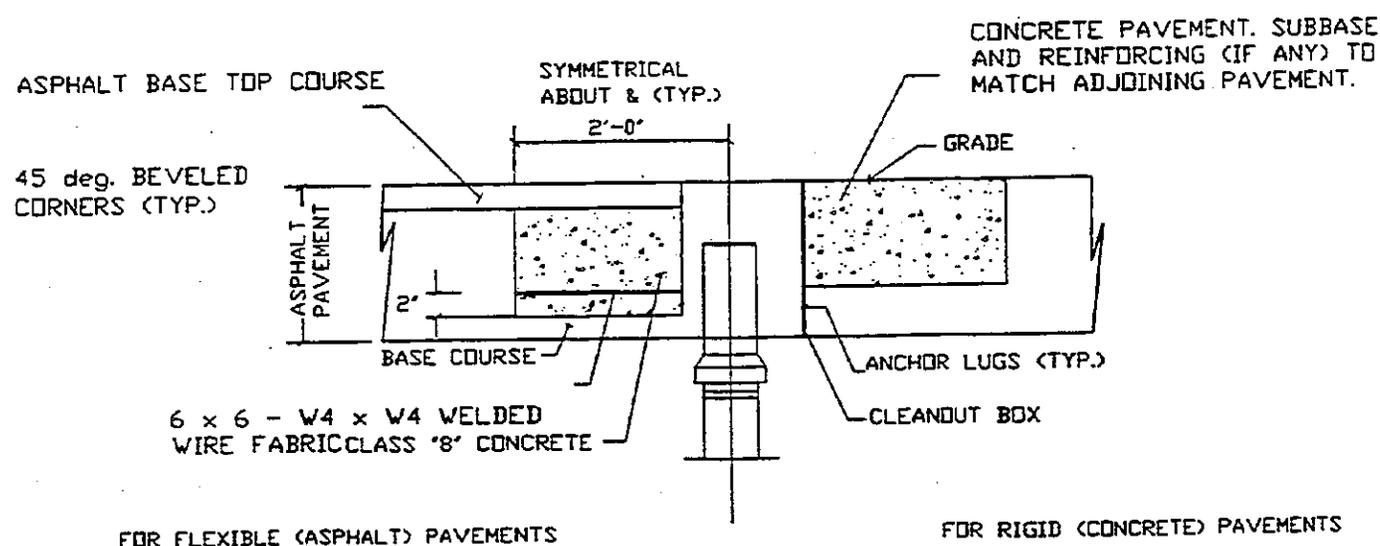
RUN CONDUIT UNDER GROUND FOR RUNS OVER 7 FEET TO TRAILER

GROUND THE TRAILER CHASSIS AS WELL AS THE NORMAL SERVICE GROUND TO GROUND ROD. GROUND ROD TO BE 5/8" x 8' MINIMUM, DEPENDING UPON EARTH GROUND RESISTANCE. WIRE SIZE AS PER NEC. 250-94.

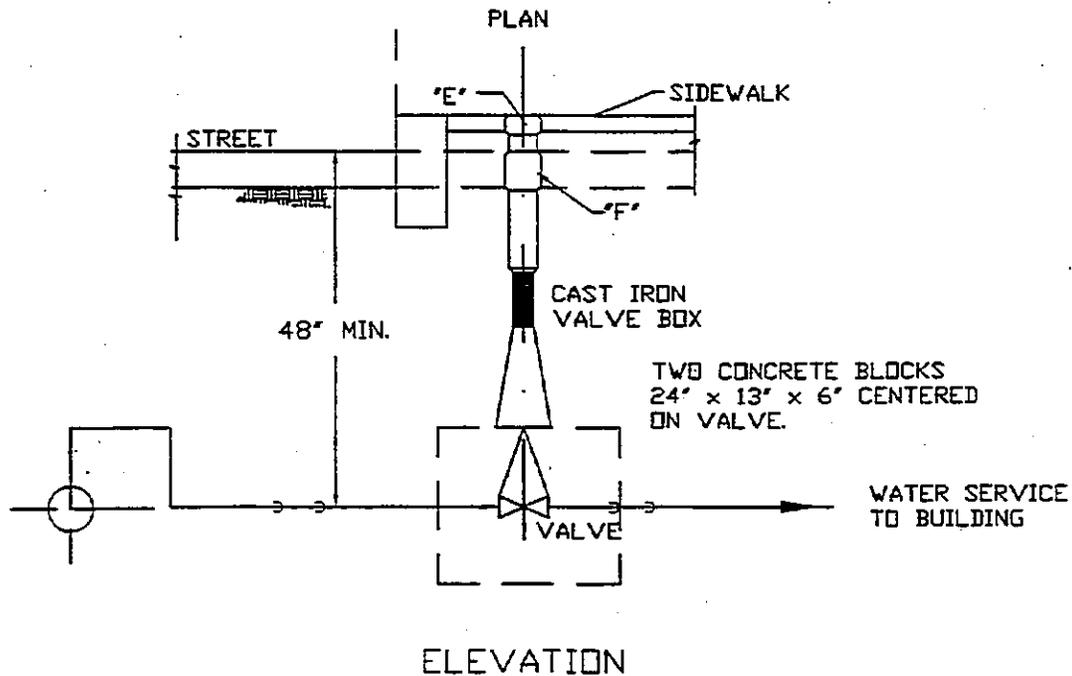
N.T.S.



- NOTES:
1. CLEANOUT PIPING ASTM A746 CLASS 50 WITH PUSH ON, GASKETTED JOINTS. CONTRACTOR SHALL PROVIDE BENDS OR OTHER SPECIAL FITTINGS FOR UNDERGROUND PIPING AS REQUIRED TO FOLLOW ALIGNMENT SHOWN ON PLAN AND TO CONNECT TO SEWER OR DRAIN.
 2. FOR MARINE TERMINAL CONTAINER AREAS; CAST IRON FRAME AND BOLTED DUCTILE IRON COVER FOR 243 PSI UNIFORM LOAD AND SAFETY FACTOR OF THREE (3). CAMPBELL FOUNDRY PATTERN NO. 41810130 OR APPROVED EQUAL.
- FOR ALL OTHER AREAS: HEAVY DUTY CAST IRON FRAME AND COVER DESIGNED FOR HS25 HIGHWAY LOADING.



DETAIL IN PAVED AREAS



LEGEND:

'C' - 2" CORPORATION TAP-MULLER THREAD REDUCE TO SERVICE PIPE SIZE

'D' - 6" NIPPLE AND 45 DEG. FITTINGS

'E' - CURB BOX MARK "WATER"

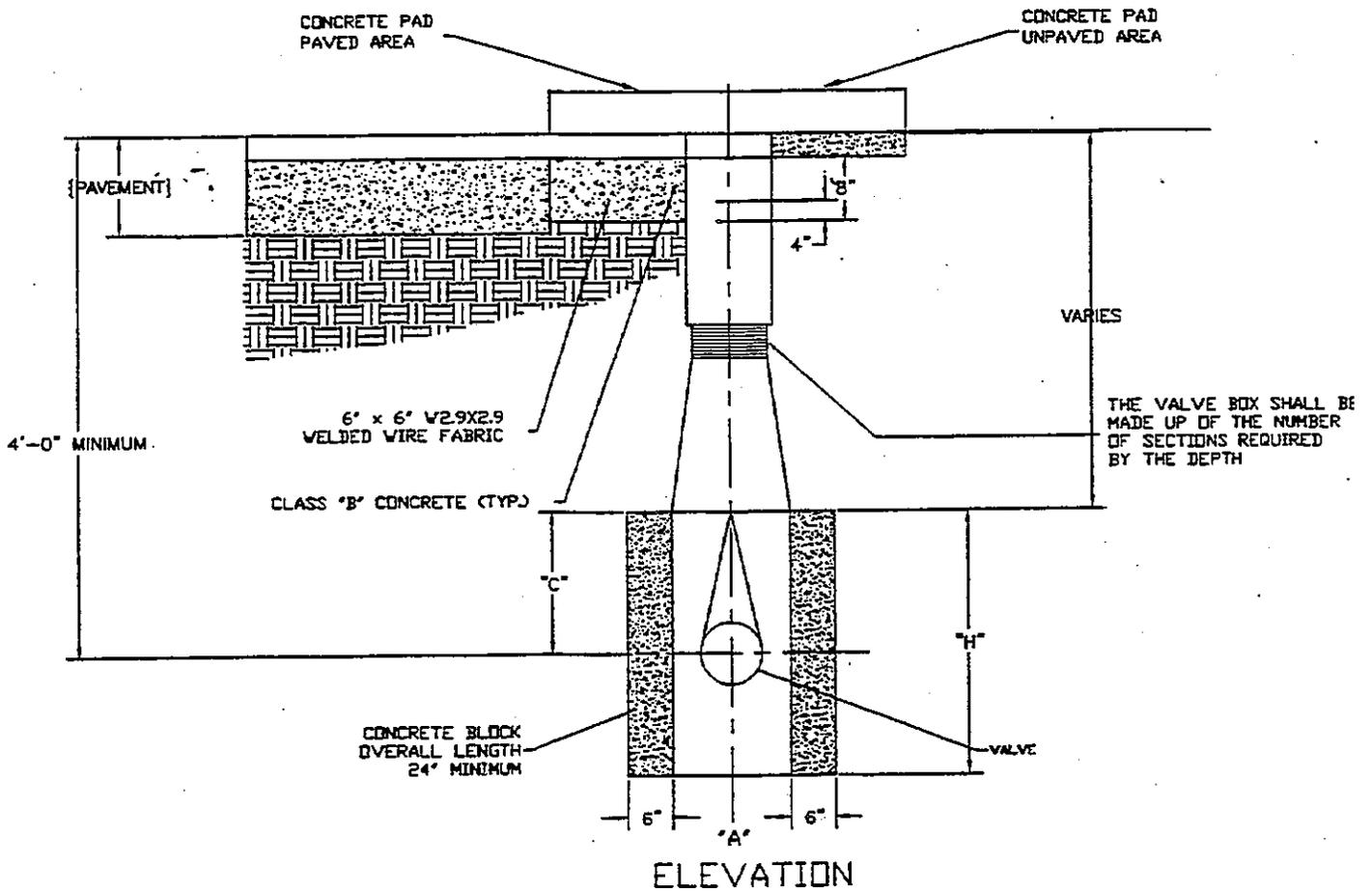
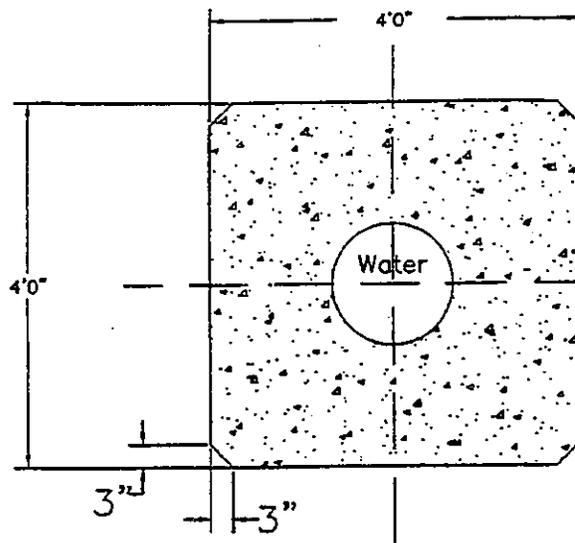
'F' - STREET BOX MARK "WATER"

NOTES

PIPING - RED BRASS SCREWED OR SEAMLESS COPPER TUBING TYPE "K"

FITTING- SCREWED OR FLARED TYPE

DETAIL OF CONCRETE PAD



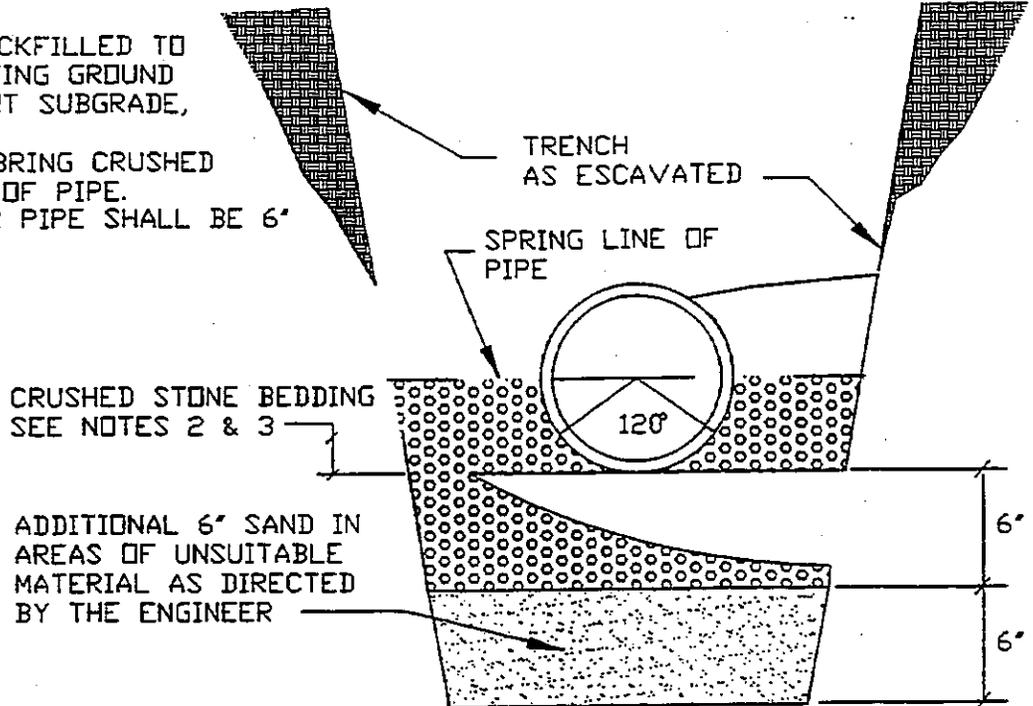
ELEVATION

SCHEDULE				
PIPE SIZE	"A"	"C"	"H"	VALVE BASE
2"	12"	0'-6-1/4"	1'-1"	ROUND
4"	12"	1'-2-3/4"	1'-10"	ROUND
6"	12"	1'-5-1/2"	2'-2"	ROUND
8"	15"	1'-9"	2'-6"	ROUND

NOTE:
LEFT OR RIGHT VALVE
CLOSURE TO BE SUITABLY
MARKED IN THE FIELD.

NOTES:

1. TRENCH SHALL BE BACKFILLED TO THE SURROUNDING EXISTING GROUND ELEVATION OR PAVEMENT SUBGRADE, WHICHEVER IS LOWER.
2. FOR FLEXIBLE PIPE BRING CRUSHED STONE TO SPRING LINE OF PIPE.
3. MINIMUM BEDDING FOR PIPE SHALL BE 6" CRUSHED STONE.

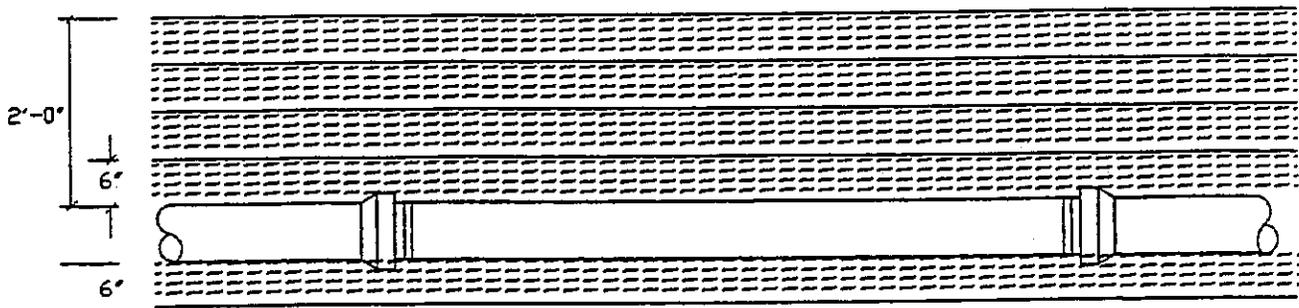


TRENCHING AND BEDDING

- A. TRENCHES SHALL BE OF SUFFICIENT WIDTH TO PERMIT PROPER INSTALLATION OF THE PIPE. WHERE SHORING IS REQUIRED, AMPLE ALLOWANCE SHALL BE MADE IN TRENCH WIDTH FOR PROPER WORKING CONDITIONS.
- B. WHERE TRENCHES ARE EXCAVATED TO A DEPTH SUCH THAT THE BOTTOM OF THE TRENCH FORMS THE BED FOR THE PIPE, CARE SHALL BE EXERCISED TO PROVIDE SOLID AND CONTINUOUS BEARING BETWEEN JOINTS, AND BELL HOLES SHALL BE PROVIDED AT POINTS WHERE THE PIPE IS JOINED.
- C. WHERE TRENCHES ARE EXCAVATED TO A DEPTH SUCH THAT THE BOTTOM OF THE TRENCH DOES NOT FORM THE BED FOR THE PIPE, THE TRENCH SHALL BE BACKFILLED TO PIPE GRADE.
- D. WHERE ROCK IS ENCOUNTERED IN TRENCHING, IT SHALL BE REMOVED TO A POINT AT LEAST THREE INCHES BELOW THE GRADE LINE OF THE TRENCH AND THE TRENCH SHALL BE BACKFILLED WITH SAND TAMPED IN PLACE TO PROVIDE A UNIFORM BEARING FOR THE PIPE BETWEEN JOINTS. CARE SHALL BE EXERCISED THAT THE PIPE DOES NOT REST ON ROCK AT ANY POINT INCLUDING THE JOINTS.
- E. IF MATERIALS OR INADEQUATE BEARING ARE FOUND AT THE BOTTOM OF THE TRENCH, STABILIZATION SHALL BE ACHIEVED BY OVER-EXCAVATING TO SOLID BEARING AND BRINGING UP TO PIPE GRADE SAND, CRUSHED STONE, OR A CONCRETE FOUNDATION. SUCH FOUNDATION SHALL BE BEDDED WITH SAND TAMPED IN PLACE TO PROVIDE A UNIFORM BEARING FOR THE PIPE BETWEEN JOINTS.

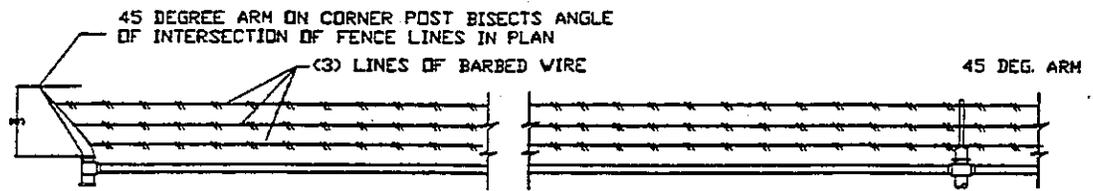
BACKFILLING

UNTIL THE CROWN OF THE PIPE IS COVERED BY AT LEAST TWO FEET OF TAMPED EARTH, CONSIDERABLE CARE SHALL BE EXERCISED IN BACKFILLING TRENCHES. LOOSE EARTH, FREE OF ROCKS, FROZEN CHUNKS AND OTHER RUBBLE, SHALL BE CAREFULLY PLACED IN THE TRENCH IN SIX-INCH LAYERS AND TAMPED IN PLACE. CARE SHALL BE TAKEN TO THOROUGHLY COMPACT THE BACKFILL UNDER AND BESIDE THE PIPE TO BE SURE THAT THE PIPE IS PROPERLY SUPPORTED. BACKFILL SHALL BE PLACED EVENLY ON BOTH SIDES OF THE PIPE AND TAMPED IN SUCH MANNER AS TO RETAIN PROPER ALIGNMENT.



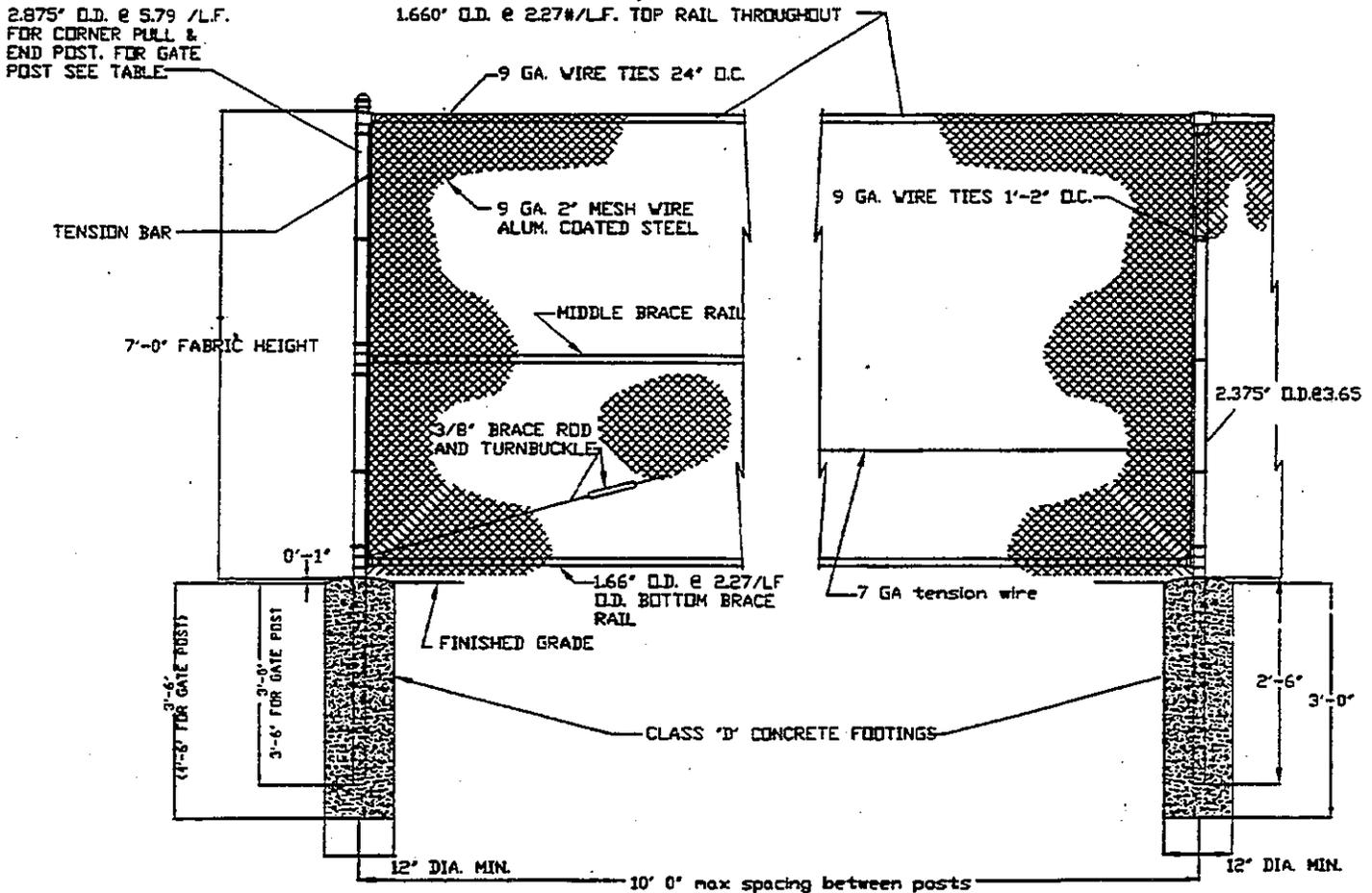
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Bedding detail water supply, storm sewer and sanitary sewer



DETAIL WITH BARBED WIRE TOP

Figure 6.1 (cont.)
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GATE, END, PULL & CORNER POST DETAIL

LINE POST DETAIL

GATE POSTS

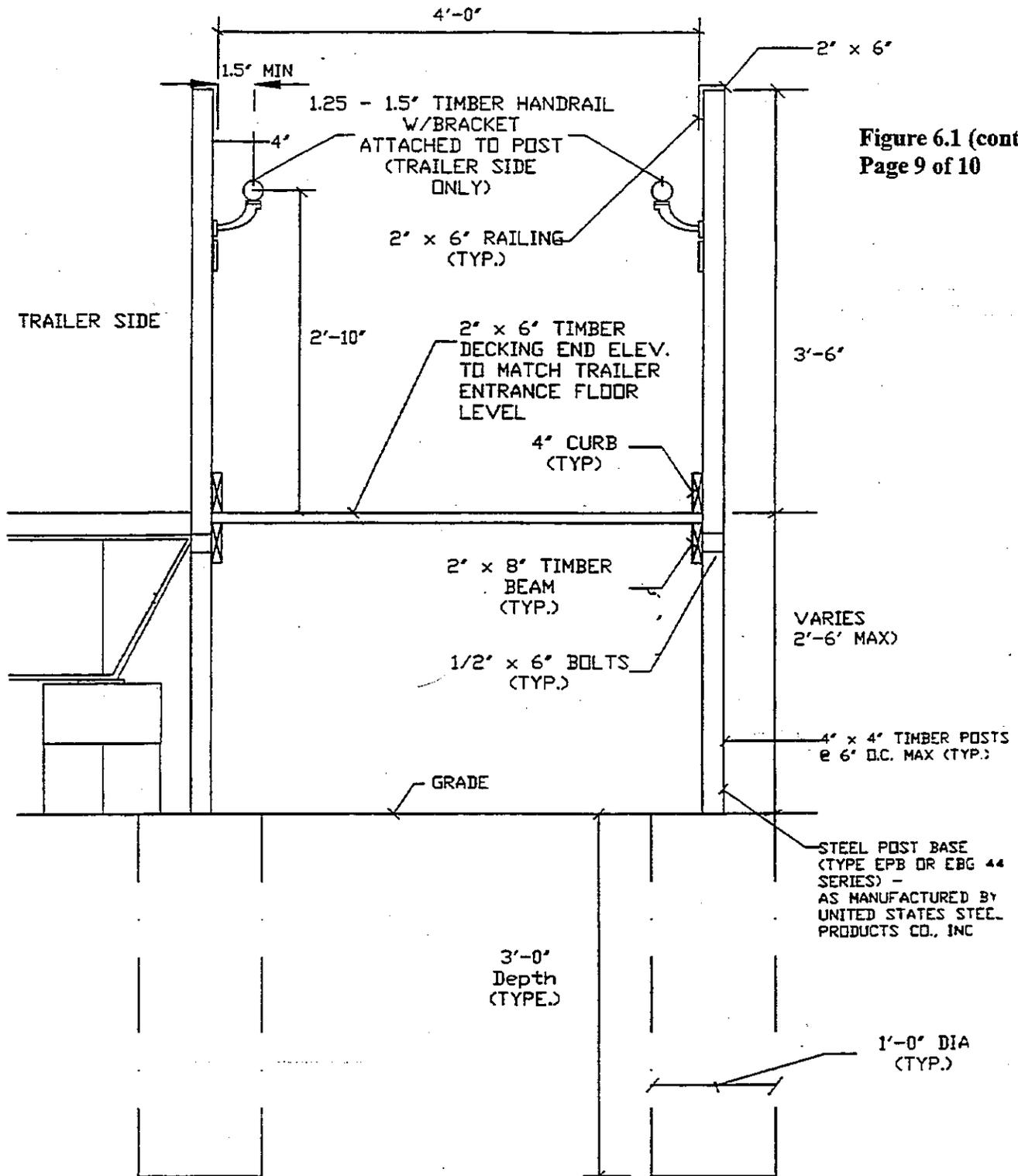
ASTM 120 PIPE		SWING GATE OPENINGS	
O.D. SIZE	#/L.F.	GATE POSTS	GATE POSTS
2.875'	5.79	UP THRU 6'	UP THRU 12
4.000'	9.11	7' THRU 13'	13 THRU 26
6.625'	18.77	14' THRU 18'	27 THRU 36
6.625'	24.70	19' THRU 32'	37 THRU 64

NOTES:

1. ALL POSTS, RAILS & BRACES SHALL BE SCHEDULE 40 PIPE UNLESS OTHERWISE SPECIFI
2. MIDDLE BRACE, BOTTOM BRACE & BRACE ROD ON ONE BAY EACH SIDE OF CORNER, ANGLE GAT & END POST ONLY.
3. PROVIDE END POST DETAILS WHEN CONNECTI TO EXISTING FENCE.
4. ERECT PULL POST EVERY 500 FEET OR WHENEVER CHANGE IN FENCE PROFILE EXCEEDS DEGREES.

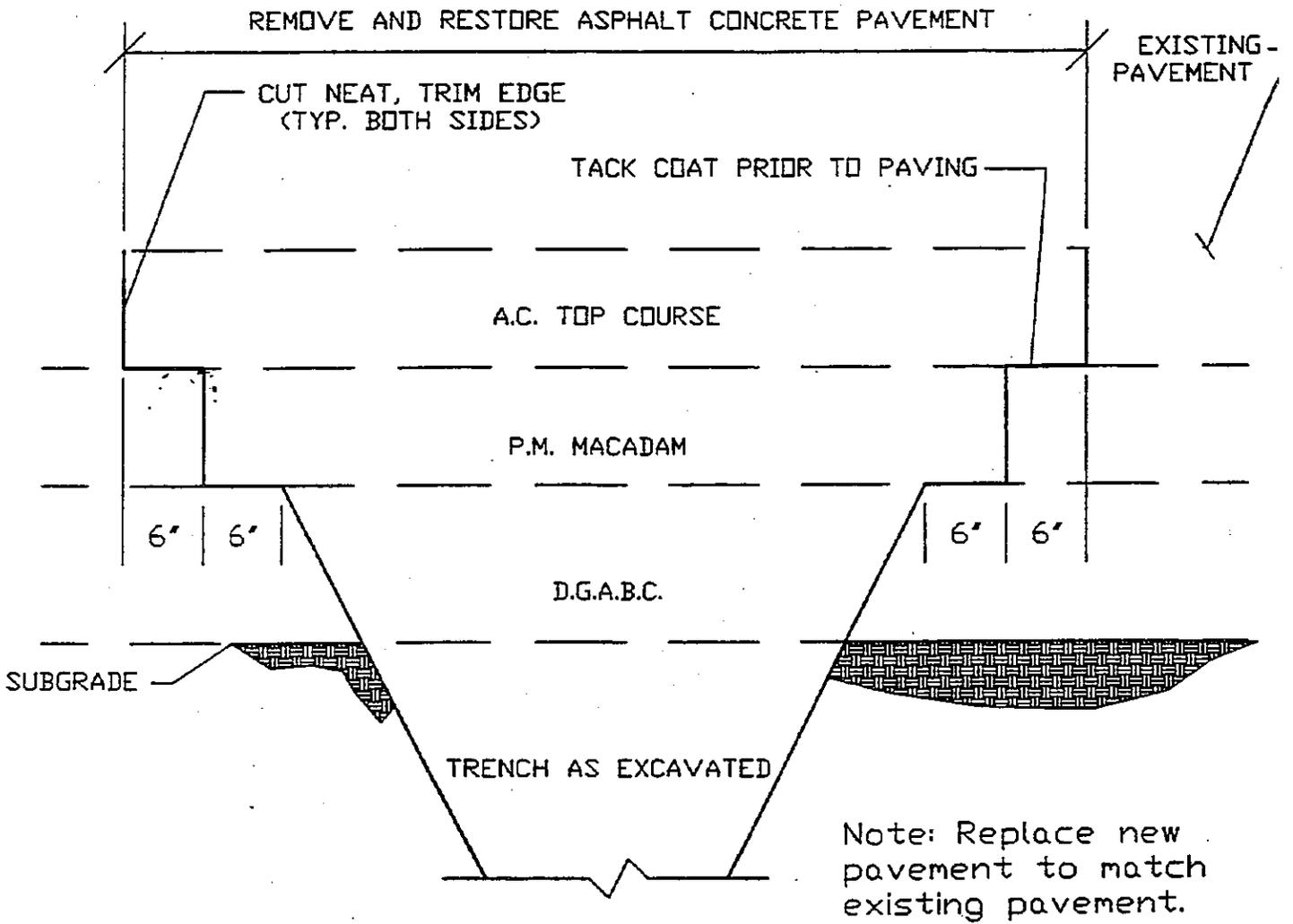
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CHAIN LINK FENCE

Figure 6.1 (cont.)
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NOTES:

- A. ALL WOOD AND WOOD PRODUCTS SHALL BE FIRE-RETARDANT TREATED WOOD.
- B. MAXIMUM SLOPE OF RAMP SHALL BE 1:12
- C. HANDRAILS SHALL EXTEND 12 INCHES BEYOND THE TOP AND BOTTOM OF RAMP AND SHALL BE PARELLEL WITH RAMP SURFACE.
- D. SHOW MANEUVERING CLEARANCES AT EXIT DOORS IN CONFORMANCE WITH ADA 4.13.6.



File: NJMT-T10.dwg
Flexible Pavement Restoration