



ENVIRONMENTAL MANAGEMENT & CONSULTING ENGINEERING

RECEIVED
M. / O.W.M.

June 6, 2007

081-12152-03

JUN -7 P 12:00

Mr. Jeffrey Crawford
Rhode Island Department of Environmental Management
Office of Waste Management
235 Promenade Street
Providence, RI 02908-5767

Subject: Repair Work Scheduled for Springfield Street School Complex, 50 Springfield Street, Providence, RI - Summer 2007

Dear Mr. Crawford:

The City of Providence is planning to repair sidewalks, and other areas affected by settling at the above referenced Site this summer. The Rhode Island Department of Environmental Management (RIDEM) has expressed concern regarding the settling in these areas and requested that repairs be made. Plans for the work have been prepared and bids are being obtained. The work is scheduled to start after the school year ends on June 13, 2007, and will be completed by August 15, 2007.

The bid specifications indicate that the contractor should work above the barrier (in the soil cap) which was installed at the time of school construction. Therefore, all work is expected to disturb only clean fill, and is not expected to disturb the underlying original Site soil. Regrading generally involves raising elevations to compensate for settling which has occurred since the schools were constructed. If conditions are encountered which require disturbing the barrier and underlying soil, RIDEM will be notified, and a plan will be developed to address these areas.

The planned repairs will address the following areas, and are shown on the attached plans:

- The catch basin in the courtyard area of the Middle School: the catch basin will be lowered to allow it to function, and the area around the catch basin will be regraded for proper drainage. Surfaces will be repaved or loam and seeded as needed.
- The concrete sidewalk and ramp on the north side of the middle school: the concrete sidewalks, stairs and ramp will be repaired to correct settling problems.
- The concrete and asphalt walkways on the west side of the Middle School gymnasium: these walkways will be removed and replaced with new walkways which will be graded for proper drainage. Disturbed areas will be restored with loam and seed.
- The concrete and asphalt walkway on the south side of the Middle School near the gymnasium: these walkways will be removed and replaced. Disturbed areas will be restored with loam and seed.



- The southwest corner of the middle school including the area around the transformer: this area will be regraded for proper drainage, the asphalt walkway will be removed and replaced to correct settling, and catch basins will be reset to obtain proper elevations for stormwater drainage. Disturbed areas will be restored with loam and seed.
- The area of settled asphalt west of the elementary school: the pavement will be removed and the area will be filled to regrade the area for proper drainage. A light weight fill material (EPS-12 Geofoam or equivalent) will be used in this area to attempt to limit future settling.
- The bank to the west of the elementary school: the bank will be reseeded as needed.

A report will be provided to RIDEM after completion of the repair work.

If you have any questions or require any additional information, please contact the undersigned at 401-738-3887.

Sincerely,

A handwritten signature in cursive script that reads "Donna Holden Pallister".

Donna Holden Pallister, P.E., L.S.P.
Senior Engineer

cc: A. Sepe, City of Providence
S. Tremblay, Providence School Department

SITE IMPROVEMENTS

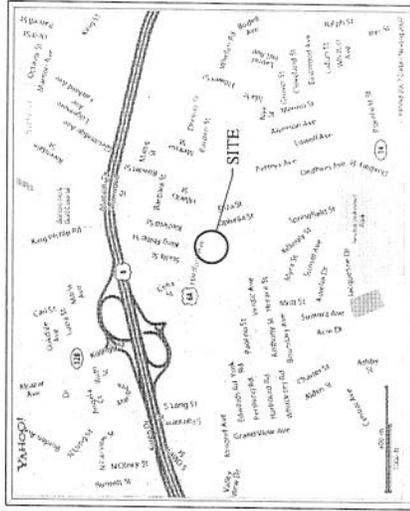
FOR:

THE CARNAVALE ELEMENTARY SCHOOL & THE DEL SESTO MIDDLE SCHOOL

SITUATED ON:
SPRINGFIELD STREET
PROVIDENCE, RHODE ISLAND

PREPARED FOR:

STUDIO JAED
750 SOUTH MADISON STREET, SUITE 200
WILMINGTON, DE 19801



SHEET INDEX

C1 COVER SHEET
C2 GENERAL NOTES & DETAILS
C3 SITE PLAN #1
C3 SITE PLAN #2

LAST

JOB NO. 6472
MAY 18, 2007



PREPARED BY:
GIROFIO
1401 25th Street, Suite 200
Wilmington, DE 19801
(302) 638-8888

SITE NOTES

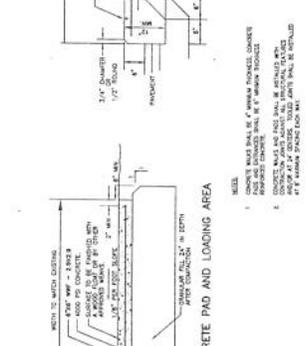
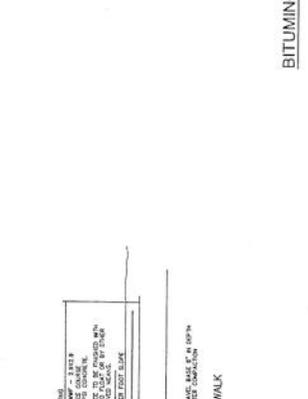
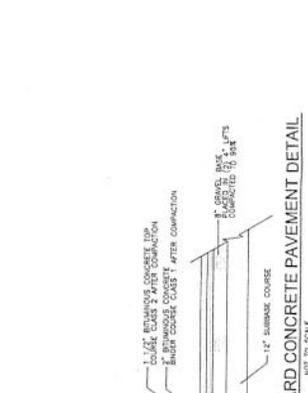
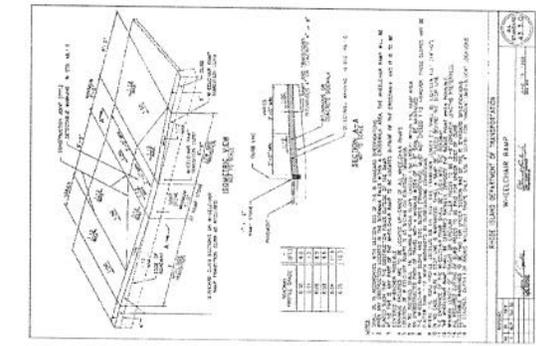
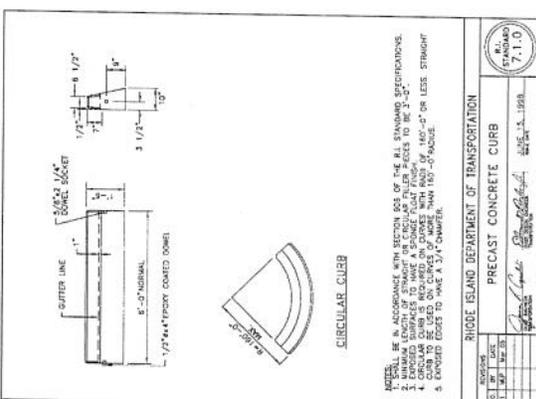
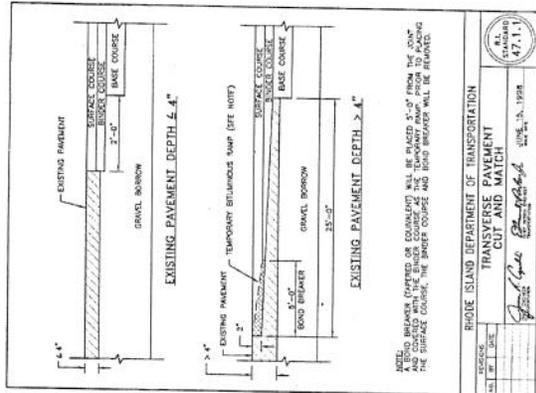
1. ALL CONCRETE SHALL BE CLASS A, 3000 PSI AT 28 DAYS COMPRESSIVE STRENGTH. ALL EXPOSED CONCRETE TO HAVE A FINE BROOM FINISH.
2. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER.
3. ALL DIMENSIONS ARE TO FACE OF CURB AND FACE OF BUILDING OR AS NOTED.
4. NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL MEASURES AS MAY BE NECESSARY FOR THE PROTECTION OF THE PUBLIC SHALL BE PROVIDED AND MAINTAINED THROUGHOUT THE CONSTRUCTION.
5. RAMPS SHALL BE PROVIDED WHEREVER AN ACCESSIBLE ROUTE IS REQUIRED. RAMPS SHALL BE CONCRETE WITH A MINIMUM SLOPE OF 1:20 OR GREATER. THE RAMPS SHALL HAVE A MINIMUM WIDTH OF 36 INCHES CLEAR EXCLUSIVE OF FINISH SIDES AND A MINIMUM RAMP HEIGHT OF 24 INCHES. RAMPS SHALL BE A MINIMUM ON BOTH SIDES OF THE OBSTACLE. THE FINISH SURFACE SHALL BE A MINIMUM HEIGHT OF 1/2 INCHES FROM THE SURFACE TO TOP OF RAMPS. RAMPS SHALL NOT EXCEED 34 INCHES.
6. SIDEWALK CONSTRUCTION SHOWN IN THESE PLANS SHALL MEET OR EXCEED THE REQUIREMENTS OF THE CITY OF PROVIDENCE, RHODE ISLAND, JULY 1991 TITLE 8, TITLE 11, AND ANY STATE, COUNTY LOCAL OR OTHER APPLICABLE LAWS.

GRADING & DRAINAGE NOTES

1. THE CONTRACTOR SHALL FURNISH AND MAINTAIN ALL NECESSARY BARRICADES, SUFFICIENT LIGHTS, SIGNS AND OTHER TRAFFIC CONTROL MEASURES AS MAY BE NECESSARY FOR THE PROTECTION OF THE PUBLIC THROUGHOUT THE CONSTRUCTION.
2. MAXIMUM SLOPE OF EMBANKMENT SHALL BE 3:0 HORIZONTAL TO 1:0 VERTICAL, OR PER APPLICABLE JURISDICTIONAL REGULATIONS.
3. PROPOSED CONTOURS ARE TO FINISHED GRADE.
4. THE CONTRACTOR SHALL INSURE THAT POSITIVE AND ADEQUATE DRAINAGE IS MAINTAINED AT ALL TIMES WITHIN THE PROJECT AREA. ALL DRAINAGE SHALL BE TO THE STREET OR TO AN ADJACENT WATERWAY. ALL DRAINAGE SHALL BE CONCRETE OR METAL. ALL DRAINAGE SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE CONSTRUCTION. ALL DRAINAGE SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE CONSTRUCTION. ALL DRAINAGE SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE CONSTRUCTION.
5. THE CONTRACTOR SHALL PROVIDE ANY AND ALL EDUCATION AND MATERIAL SAMPLES NECESSARY TO CONDUCT REQUIRED SOIL TESTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TESTING SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
6. GEORGOLO & ASSOCIATES HAS NOT PERFORMED ANY SUBSISTANCE SITE INVESTIGATION OF SOIL CONDITIONS, AS SUCH AS IS NOT REQUIRED BY THE CITY OF PROVIDENCE. THESE IMPROVEMENTS HAVE BEEN DESIGNED TO BE TEMPORARILY SATISFY BUILDING CODE & ADA REQUIREMENTS.
7. ALL MATERIALS SHALL BE NEW UNLESS USED OR SALVAGED MATERIALS ARE AUTHORIZED BY THE OWNER.

GENERAL CONSTRUCTION NOTES:

1. THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THROUGHOUT THE CONSTRUCTION.
2. THE CONTRACTOR SHALL MAINTAIN UNDERGROUND UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THROUGHOUT THE CONSTRUCTION.
3. THE CONTRACTOR SHALL MAINTAIN UNDERGROUND UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THROUGHOUT THE CONSTRUCTION.
4. METHODS AND MATERIALS USED IN THE CONSTRUCTION OF IMPROVEMENTS FOR THIS PROJECT SHALL CONFORM TO THE CURRENT CONSTRUCTION STANDARDS OF THE CITY OF PROVIDENCE AND THE RHODE ISLAND DEPARTMENT OF TRANSPORTATION.
5. THE CONTRACTOR SHALL MAKE EXPLOSIONARY EXAMINATIONS AND SHALL NOTIFY THE OWNER AND ENGINEER OF ANY EXPLOSION, CHASSIS OR DISCREPANCIES BEFORE COMMENCING OR PROCEEDING WITH WORK.
6. CONTRACTORS SHALL NOTIFY ENGINEERS WHO MAINTAIN UNDERGROUND UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THROUGHOUT THE CONSTRUCTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING, WITH MATCHING MATERIALS, ANY PAVEMENT, DRIVEWAYS, WALLS, WALLS, OR OTHER STRUCTURES THAT MUST BE CUT OR THAT ARE DAMAGED DURING CONSTRUCTION.
8. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THROUGHOUT THE CONSTRUCTION.
9. THE CONTRACTOR SHALL MAINTAIN UNDERGROUND UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THROUGHOUT THE CONSTRUCTION.



BITUMINOUS STANDARD CONCRETE PAVEMENT DETAIL

CONCRETE PADS AND WALKS

NOT TO SCALE

NOT TO SCALE

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 PROJECT NO. 641
 SHEET NO. 647-2
 DATE: 10/15/1998
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 PROJECT NO. 641
 SHEET NO. 647-2
 DATE: 10/15/1998
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

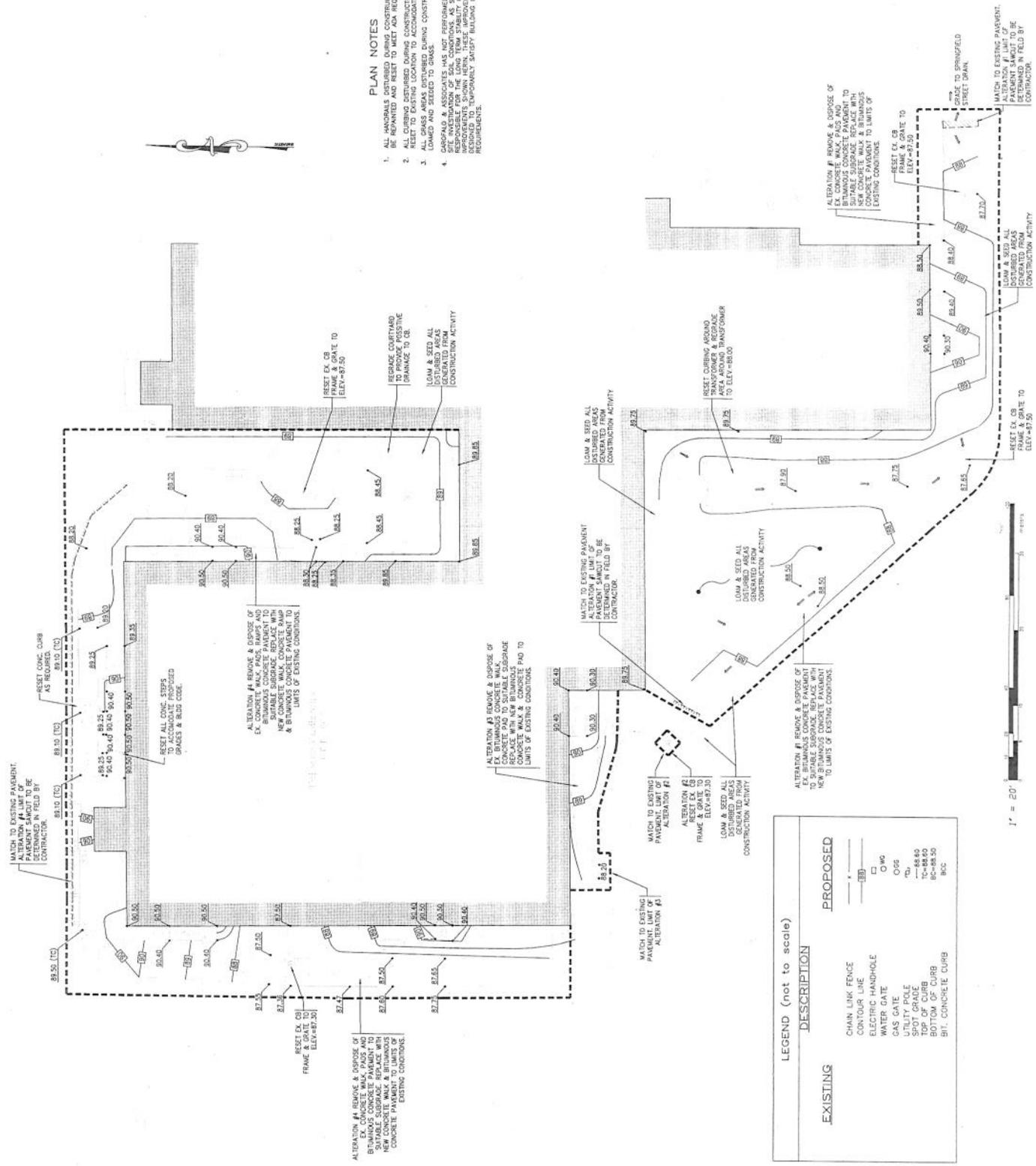
RHODE ISLAND DEPARTMENT OF TRANSPORTATION
 PROJECT NO. 641
 SHEET NO. 647-2
 DATE: 10/15/1998
 DRAWN BY: [Signature]
 CHECKED BY: [Signature]

SOIL EROSION & SEDIMENT CONTROL NOTES

1. DISTURBANCE OF SOIL SURFACES IS REGULATED BY STATE LAW, STATUTES AND ORDINANCES OF THE CITY OF PROVIDENCE.
2. THE EROSION CONTROL MEASURES SHOWN AND DETAILED ON THESE PLANS SHALL BE CONSIDERED THE MINIMUM ACCEPTABLE MEASURES TO PREVENT SOIL EROSION AND SEDIMENTATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THROUGHOUT THE CONSTRUCTION.
3. ALL SILT FENCING SHALL BE PROPERLY SUPPORTED BY STURDY POSTS AND STABILIZED WITH STURDY STRIPS (TWO PER HAY BALE).
4. ALL DISTURBED AREAS NOT COVERED BY BUILDING, PAVEMENT OR OTHER PERMANENT STRUCTURE SHALL BE COVERED WITH FOUR INCH (4") THICKNESS OF TOPSOIL IF SEDIMENT CANNOT BE CONTROLLED IMMEDIATELY. DISTURBED AREAS SHALL BE STABILIZED WITH EROSION CONTROL MATTING (WHEN APPROPRIATE) PROVIDED ON EXCLUSION BARS WITHIN THE APPROVED PROTECTION LIMITS OF DISTURBANCE AREAS. THE CONTRACTOR SHALL MAINTAIN UNDERGROUND UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THROUGHOUT THE CONSTRUCTION.
5. EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND MAINTENANCE AND REPLACEMENT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL MAINTAIN UNDERGROUND UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THROUGHOUT THE CONSTRUCTION.
7. THE CONTRACTOR SHALL MAINTAIN UNDERGROUND UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THROUGHOUT THE CONSTRUCTION.
8. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM THAT SHOWN ON THE APPROVED PLANS TO ACCOMMODATE EXISTING UTILITIES OR TO MAINTAIN UNDERGROUND UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THROUGHOUT THE CONSTRUCTION.
9. THE CONTRACTOR SHALL MAINTAIN UNDERGROUND UTILITIES AT ALL TIMES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UTILITIES THROUGHOUT THE CONSTRUCTION.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM REQUIRED MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL DEVICES TO ENSURE THEIR FUNCTION AT ALL TIMES.
11. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY OF PROVIDENCE DEPARTMENT FOR SOIL AND SEDIMENT CONTROL MEASURES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES.

PLAN NOTES

1. ALL MATERIALS FOR CONSTRUCTION SHALL BE REPAIRED AND RESET TO MEET ADA REQUIREMENTS.
2. ALL CURBING DISTURBED DURING CONSTRUCTION SHALL BE RESET TO EXISTING LOCATION TO ACCOMMODATE NEW GRADES.
3. ALL NEW CONCRETE FINISHING CONSTRUCTION SHALL BE LOAM AND SEED TO GRASS.
4. CAROPALO & ASSOCIATES HAS NOT PERFORMED ANY SUBSURFACE SITE INVESTIGATION OF SOIL CONDITIONS, AS SUCH IS NOT NECESSARY FOR THIS PROJECT. THERE ARE NO KNOWN UNDESIRABLE IMPROVEMENTS SHOWN HEREIN. THESE IMPROVEMENTS HAVE BEEN REQUIREMENTS, UNLESS OTHERWISE SHOWN BY THE CODE & ADA REQUIREMENTS.

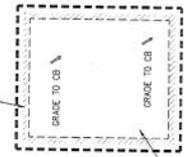


LEGEND (not to scale)	
EXISTING	PROPOSED
CHAIN LINK FENCE	—
CONTOUR LINE	—
ELECTRIC HANDHOLE	□
WATER GATE	○
GAS GATE	○
UTILITY POLE	⊕
SPOT GRADE	—
TOP OF CURB	—
BOTTOM OF CURB	—
BIT. CONCRETE CURB	—

NO.	



REMOVE EXISTING CURB TO LINE OF
 PAVEMENT. REMOVE EXISTING
 PAVEMENT SURFACE TO BE
 DETERMINED IN FIELD BY
 CONTRACTOR.

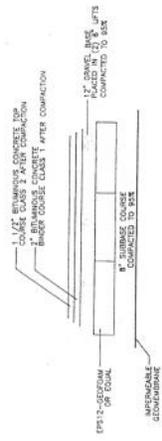


REMOVE BITUMINOUS
 CONCRETE SURFACE TO BE
 DETERMINED IN FIELD BY
 CONTRACTOR. REMOVE
 SUITABLE SUBGRADE, REMAIN
 AS SHOWN IN DETAIL "A"

PLAN NOTES

1. GARFALO & ASSOCIATES HAS NOT PERFORMED ANY SUBSURFACE INVESTIGATION OF THE SUBGRADE. THE CONTRACTOR IS NOT RESPONSIBLE FOR THE LONG TERM STABILITY OF THE PAVEMENT. THESE IMPROVEMENTS HAVE BEEN DESIGNED TO IMPROVISE SHIP BUILDING CODE & ADA REQUIREMENTS.
2. ALL GRASS AREAS DISTURBED DURING CONSTRUCTION SHALL BE LINED AND SEED TO GRASS.

LEGEND (not to scale)	
EXISTING	PROPOSED
CHAIN LINK FENCE	—
CONTOUR LINE	—
ELECTRIC HANDHOLE	□
WATER GATE	○
GAS GATE	○
UTILITY POLE	⊕
SPOT GRADE	—
TOP OF CURB	—
BOTTOM OF CURB	—
BIT. CONCRETE CURB	—



DETAIL "A"
 BITUMINOUS CONCRETE PAVEMENT DETAIL
 NOT TO SCALE

