

**SITE LOCATION MAP**  
**SCALE: 1"=400'**

SCALE: 1"=400'

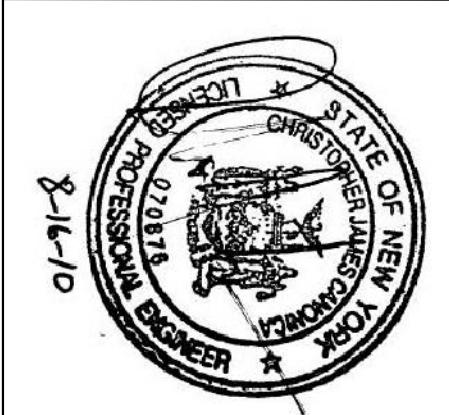
GENERAL NOTES:

1. THE HORIZONTAL COORDINATES ARE BASED ON NEW YORK LONG ISLAND STATE PLANE COORDINATE SYSTEM NORTH AMERICAN DATUM OF 1983 (NA83).
2. VERTICAL DATUM BASED UPON NAVD 88 TRANSFERRED TO THE SITE BY CONVENTIONAL METHODS.
3. BUILDING HEIGHTS SHOWN ARE MEASURED FROM GRADE.
4. SITE IS LOCATED 480± SOUTH OF THE INTERSECTION OF ATLANTIC AVE. AT THE INTERSECTION OF MAIN ST. AND RAY ST EAST.
5. BEARINGS ARE REFERENCED TO M.R. 1.

MAP REFERENCES:

1. MAP ENLILED SITE PLAN, PREPARED BY M. ENGINEERING AND LAND SURVEYING, P.C., DATED JULY 22, 2008.

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No.	DATE
	REVISION



THE LOUIS BERGER GROUP, INC.  
412 MOUNT KEMBLE AVENUE  
MORRISTOWN, NEW JERSEY

SCALE:  
AS SHOWN

DATE: AUGUST 16, 2010

PROJECT NO.: JG 500Q

SHEET NO.:  
2 OF 8



NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

EA ENGINEERING, P.C. AND ITS AFFILIATE  
EA SCIENCE AND TECHNOLOGY

SITE REMEDIATION PROJECT  
METAL ETCHING SITE, FREEPORT, NASSAU COUNTY, NEW YORK

## EXISTING CONDITIONS PLAN

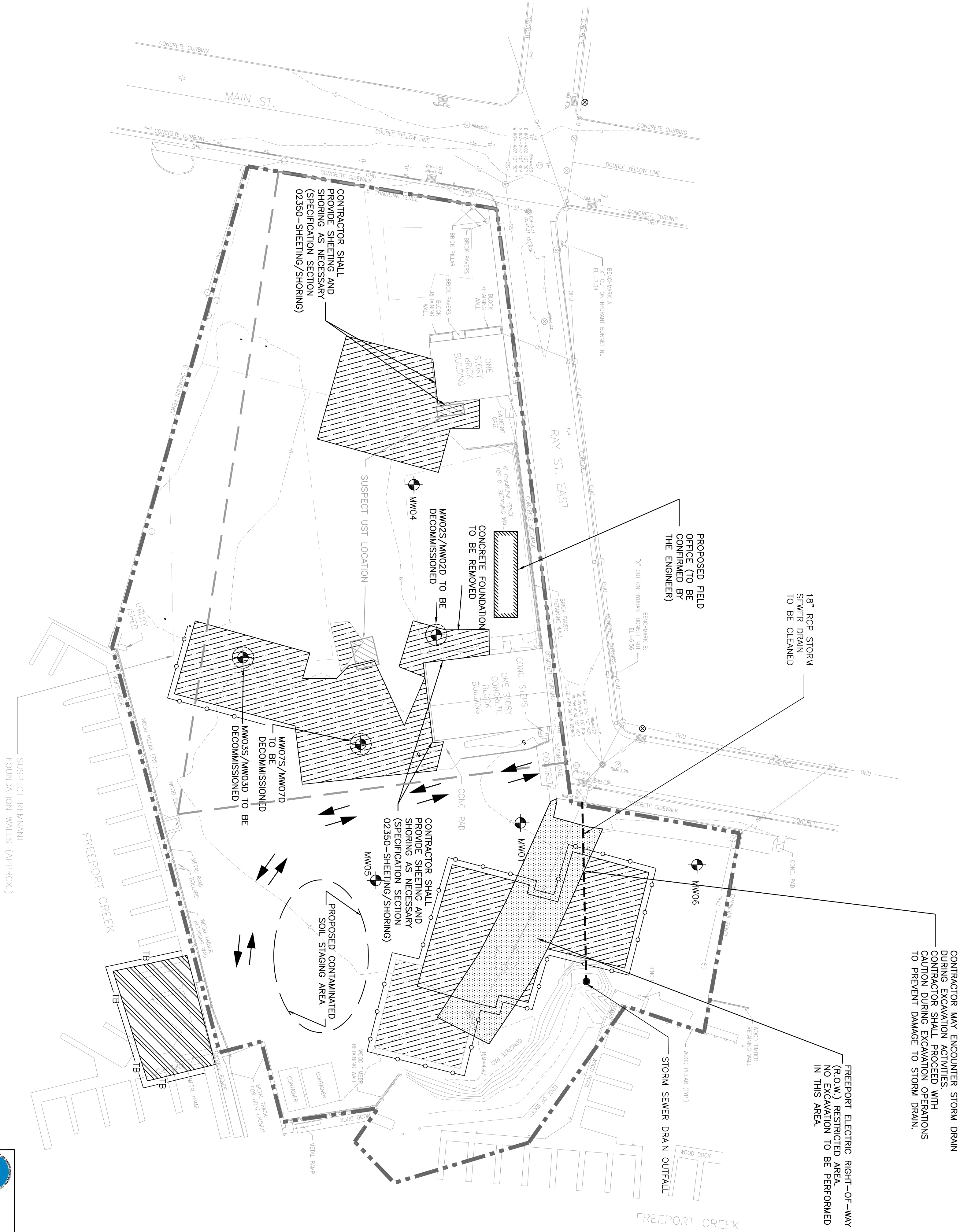
DRAWN BY: A.L.

CHECKED BY: A.R.  
APPROVED BY: A.K.

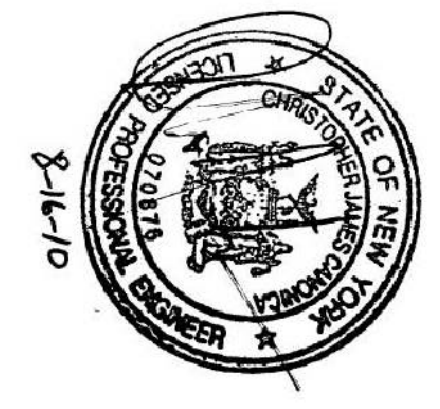
SHEET NO.:  
2 OF 8




CAUTION: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 SECTION 7209 FOR ANY PERSON TO ALTER THIS ITEM IN ANY WAY, UNLESS THE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.



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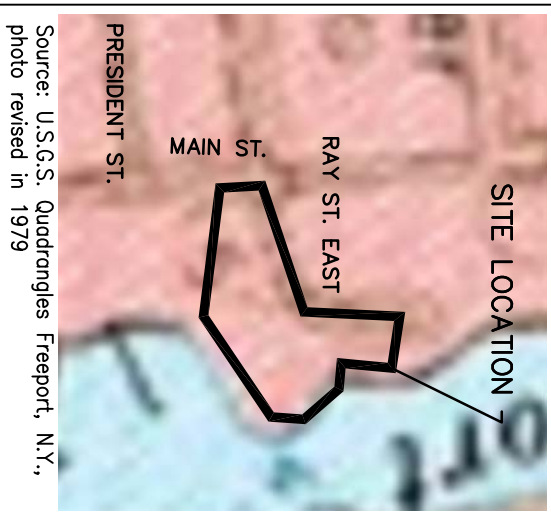


 <p>THE LOUIS BERGER GROUP, INC. 412 MOUNT KEMBLE AVENUE MORRISTOWN, NEW JERSEY</p>	DRAWN BY: A.L.	
	CHECKED BY: A.R.	
SCALE: AS SHOWN	DATE: AUGUST 16, 2010	PROJECT NO.: JG 500Q1
		SHEET NO.: 3 OF 8

1. CONTRACTOR SHALL NOT PERFORM ANY EXCAVATION OR INTRUSIVE ACTIVITY WITHIN FREEPORT ELECTRIC RIGHT-OF-WAY (R.O.W.) AREA, AS SHOWN ON THIS PLAN.
2. CONTRACTOR SHALL COORDINATE ALL ACTIVITIES AND SCHEDULE WITH THE SITE OPERATOR (AL GROVER'S HIGH & DRY MARINA) AND THE ENGINEER AS PER SPECIFICATION SECTION 01040 – COORDINATION.
3. CONTRACTOR SHALL PERFORM ALL SITE PREPARATION ACTIVITIES, INCLUDING PREPARATION OF GRASS COVERED AREA FOR RIP-RAP PLACEMENT, AS PER SPECIFICATION SECTION 02110 – SITE PREPARATION, CLEARING & GRUBBING.
4. CONTRACTOR SHALL PROVIDE ALL TEMPORARY FACILITIES AND CONTROLS NECESSARY FOR THE WORK AS PER SPECIFICATION SECTION 01500 – TEMPORARY FACILITIES AND CONTROLS.
5. CONTRACTOR SHALL PROPERLY DECOMMISSION THE FOLLOWING SIX (6) EXISTING MONITORING WELLS WITHIN THE LIMITS OF DISTURBANCE: WM02S/WM02D, WM03S/WM03D, AND WM05S/WM05D, AS PER SPECIFICATION SECTION 02670 – MONITORING WELL DECOMMISSIONING.
6. SOIL EXCAVATION WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN SHALL BE LIMITED TO MAXIMUM DEPTH OF THE LOW TIDE GROUNDWATER TABLE (APPROXIMATELY 5 FEET BELOW GROUND SURFACE), AS DETAILED ON PLAN SHEETS 4, 8 OF EXCAVATION PLAN AND 7 OF 8 – CONSTRUCTION DETAILS AND HANDLING OF CONTAMINATED SOILS, SECTION 02111 – EXCAVATION AND HANDLING OF CONTAMINATED SEDIMENTS.
7. SEDIMENT REMOVAL ON THE SOUTH PORTION OF THE SITE WITHIN THE LIMITS OF DISTURBANCE SHOWN ON THIS PLAN SHALL BE LIMITED TO MAXIMUM DEPTH OF TWO (2) FEET, AS PER SPECIFICATION SECTION 02112 – DREDGING AND HANDLING OF CONTAMINATED SEDIMENTS.
8. SOIL EROSION AND SEDIMENT CONTROLS, INCLUDING SILT FENCE AND EROSION CONTROL MEASURES, SHALL BE IMPLEMENTED AS DETAILED ON PLAN SHEET 8 OF 8 – SOIL EROSION AND SEDIMENT CONTROL DETAILS, AND AS PER SPECIFICATION SECTION 01560 – EROSION AND SURFACE WATER CONTROL.
9. ALL TRUCKS AND VEHICLES ENTERING AND LEAVING THE SITE SHALL REMAIN ON EXISTING PAVED AND/OR UNPAVED BALLAST COVERED AREAS AT ALL TIMES. IN THE EVENT THAT ACCESS TO AREAS WITHIN THE LIMITS OF DISTURBANCE BECOMES NECESSARY TO PROGRESS THE WORK, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CRUSHED STONE WHEEL CLEANING TRACKING-PAD SHALL BE INSTALLED AS DETAILED ON PLAN SHEET 8 OF 8 – SOIL EROSION AND SEDIMENT CONTROL DETAILS.
10. CONTRACTOR SHALL INSTALL SHEETING AND SHORING FOR EXCAVATIONS ALONG EXISTING BUILDINGS TO PROTECT THE FOUNDATION WALLS AS PER SPECIFICATION SECTION 02350 – SHEETING AND SHORING.
11. CONTRACTOR SHALL REMOVE ANY REMNANT FOUNDATION WALLS THAT MAY BE ENCOUNTERED DURING EXCAVATION AT APPROXIMATE LOCATIONS SHOWN ON THIS PLAN TO THE EXTENT NECESSARY FOR THE PURPOSE OF EXCAVATION OF CONTAMINATED SOILS WITHIN THE LIMITS OF EXCAVATION AS PER SPECIFICATION SECTION 02111 – EXCAVATION AND HANDLING OF CONTAMINATED SOILS AND FOR THE PURPOSE OF PROPER SITE RESTORATION AS PER SPECIFICATION SECTION 02402 – POROUS PAVEMENT SYSTEM.
12. ANY REMNANT FOUNDATION WALL MATERIAL REMOVED SHALL BE CONSIDERED PART OF THE VOLUME OF CONTAMINATED SOILS EXCAVATED FOR THE PURPOSE OF MEASUREMENT FOR PAYMENT.
13. IF UNDERGROUND STORAGE TANKS (USTS) ARE ENCOUNTERED AT SUSPECT LOCATIONS SHOWN ON THIS PLAN OR AT ANY OTHER DISTURBED LOCATIONS, THE CONTRACTOR SHALL DECOMMISSION, CLOSE, AND REMOVE USTS AS PER SPECIFICATION SECTION 02114 – UNDERGROUND STORAGE TANK REMOVAL.
14. SEDIMENTS IN 18" RCP STORM SEWER LINE ALONG THE NORTHEASTERN PORTION OF THE SITE SHALL BE CLEANED OUT AND REMOVED IN ACCORDANCE WITH SPECIFICATION SECTION 02113 – REMOVAL AND HANDLING OF SEDIMENT FROM STORMWATER SYSTEM.



## SITE LOCATION MAP



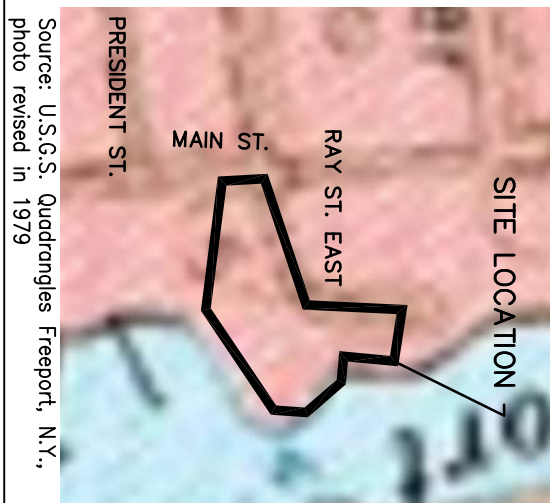
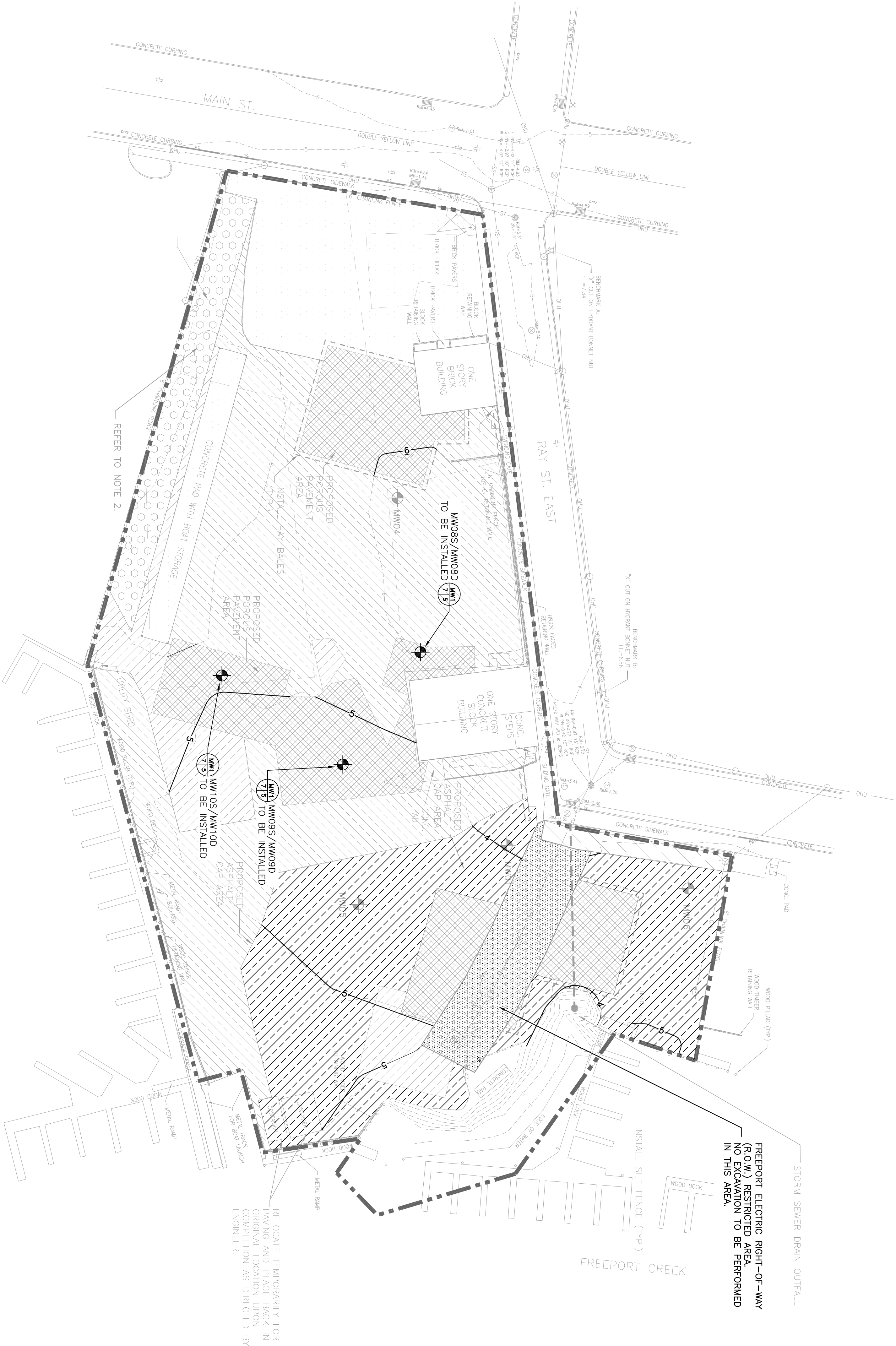
Source: U.S.G.S. Quadrangles Freeport, N.Y.,  
photo revised in 1979







CAUTION: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145, SECTION 7209 FOR ANY PERSON TO ALTER THIS ITEM IN ANY WAY, UNLESS HE OR SHE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER.



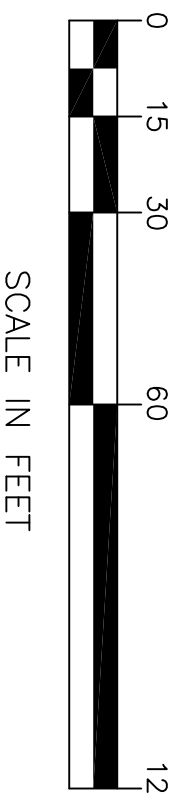
Source: USGS, Outcrops Freeport, N.Y., photo taken in 1979

SITE LOCATION MAP

SCALE: 1"=400'

GENERAL NOTES:


1. CONTRACTOR SHALL NOT PLACE ANY RESTORATION MATERIALS, FILL OR COVER WITHIN THE FREEPORT ELECTRIC RIGHT-OF-WAY.
2. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS TO PRECONSTRUCTION GRADES SHOWN ON THIS PLAN, TO THE EXTENT PRACTICABLE.
3. CONTRACTOR SHALL REMOVE 12-INCHES OF EXISTING BALLAST MATERIAL PRIOR TO INSTALLING ASPHALT COVER (REFER TO SHEET 6 OF 8 - SITE RESTORATION AND STORMWATER MANAGEMENT PLAN). BALLAST MATERIAL REMOVED SHALL BE USED AS EXCAVATION BACKFILL.
4. CONTRACTOR SHALL INSTALL MONITORING WELLS AT THE LOCATION AS INDICATED ON THIS PLAN AND AS SPECIFIED ON SHEET 7 OF 8 - CONSTRUCTION DETAILS AND WITHIN SECTION 02671 - MONITORING WELL INSTALLATION OF THE CONTRACT DOCUMENTS.




- MAP REFERENCES:
1. MAP ENTITLED "SITE PLAN", PREPARED BY MJ ENGINEERING AND LAND SURVEYING, P.C., DATED JULY 22, 2008.

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION



EA ENGINEERING, P.C. AND ITS AFFILIATE  
EA SCIENCE AND TECHNOLOGY

SITE REMEDIATION PROJECT  
METAL ETCHING SITE, FREEPORT, NASSAU COUNTY, NEW YORK

FINAL SITE GRADING AND  
MONITORING WELL INSTALLATION PLAN

THE LOUIS BERGER GROUP, INC.  
412 MOUNT KEMBLE AVENUE  
MORRISTOWN, NEW JERSEY

SCALE: AS SHOWN

DRAWN BY: A.L.

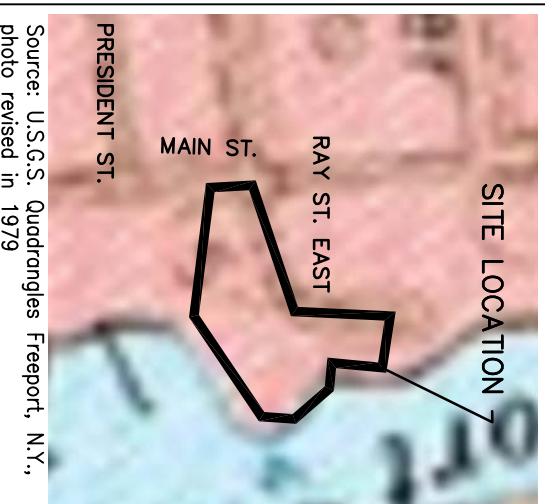
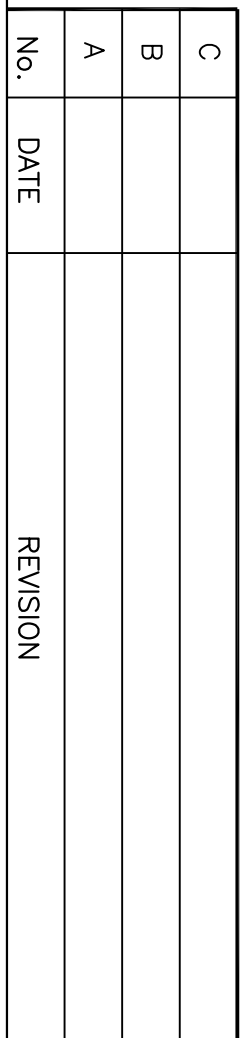
CHECKED BY: A.R.

APPROVED BY: A.K.

PROJECT NO.: JG 50001

SHEET NO.: 5 OF 8





SCALE: 1"=400'

1. CONTRACTOR SHALL RESTORE ALL AREAS EXCAVATED TO A MAXIMUM DEPTH OF 5 FEET AS DETAILED ON PLAN SHEET 7 OF 8 - CONSTRUCTION DETAILS AND AS PER SPECIFICATION SECTION 02400 - EARTHWORK AND FILL MATERIALS AND SECTION 02404 - POROUS PAVEMENT SYSTEM.

CONTRACTOR SHALL RESTORE ALL AREAS EXCAVATED TO A MAXIMUM DEPTH OF 1 FOOT AS DETAILED ON PLAN SHEET 7 OF 8 - CONSTRUCTION DETAILS AND AS PER SPECIFICATION SECTION 02402 - SITE RESTORATION.

CONTRACTOR SHALL RESTORE UNDISTURBED UNPAVED  
BALLAST COVERED AREAS EXCEPT FOR THE  
FREEPORT ELECTRIC RIGHT-OF-WAY (R.O.W.) AREA.  
AS DETAILED ON PLAN SHEET 7 OF 8 -  
CONSTRUCTION DETAILS, AND AS PER  
SECTION 02402 - SITE RESTORATION.

CONTRACTOR SHALL RESTORE SLOTTED DRAIN SYSTEM EXCAVATION AREAS IN ACCORDANCE WITH DETAIL ON PLAN SHEET 7 OF 8 - CONSTRUCTION DETAILS, AND AS PER SPECIFICATION SECTION 02404 - SLOTTED DRAIN SYSTEM.




2. CONTRACTOR SHALL RESTORE THE GRASS COVERED AREA AS DETAILED ON PLAN SHEET 7 OF 8 - CONSTRUCTION DETAILS, AND AS PER SPECIFICATION SECTION 02402 - SITE RESTORATION.

3. CONTRACTOR SHALL PLACE AND MAINTAIN HAY BALES OR SILT FENCE AROUND THE PERIMETER OF ALL PROPOSED POROUS PAVEMENT AREAS PRIOR TO THE CONSTRUCTION OF THE FINAL 3-INCH POROUS PAVEMENT LAYER. THE HAY BALES OR SILT FENCE SHALL REMAIN IN PLACE UNTIL ALL OTHER AREAS AT THE SITE ARE RESTORED AND SURFACES HAVE BEEN CLEANED OF SEDIMENTS.

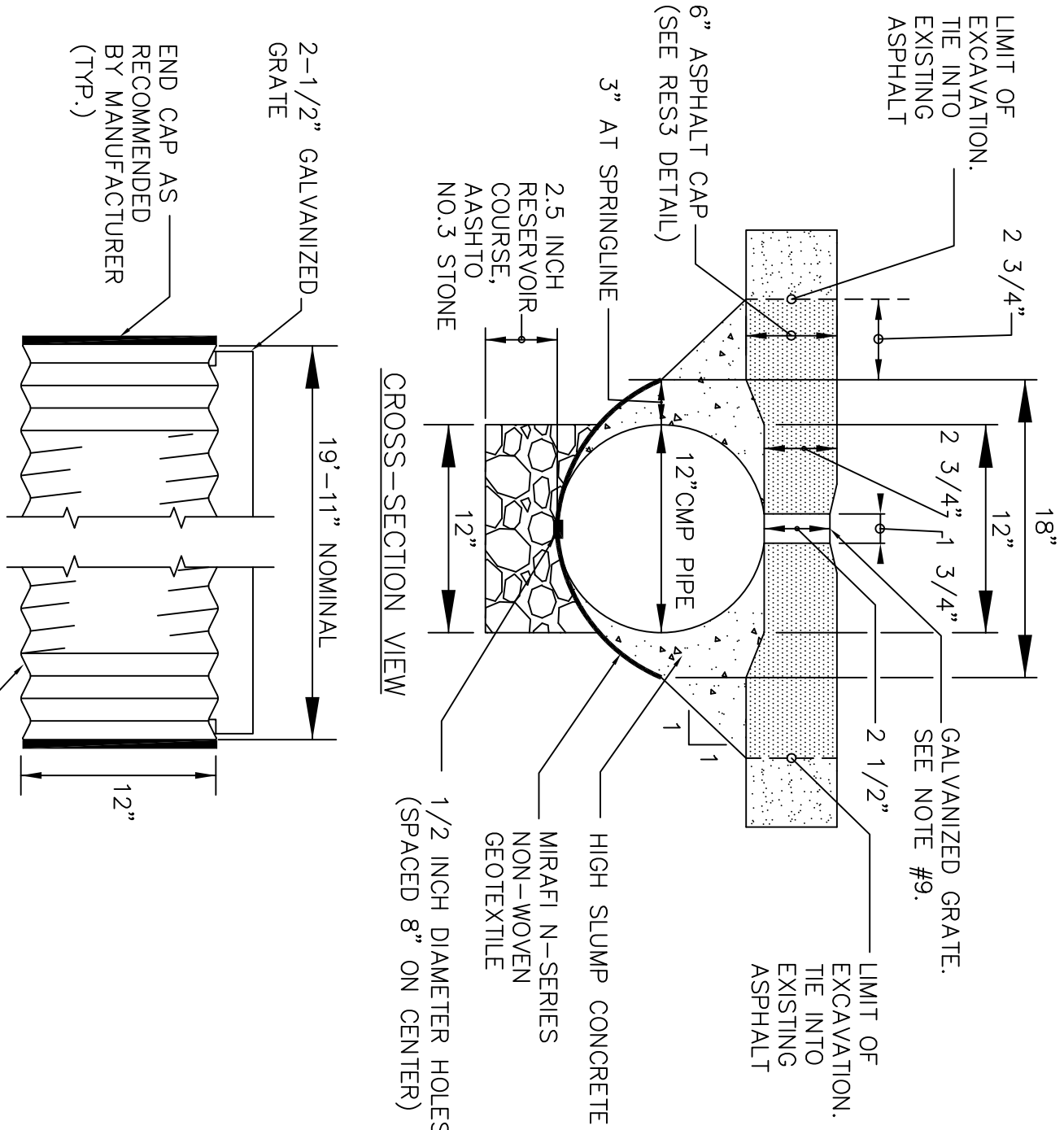
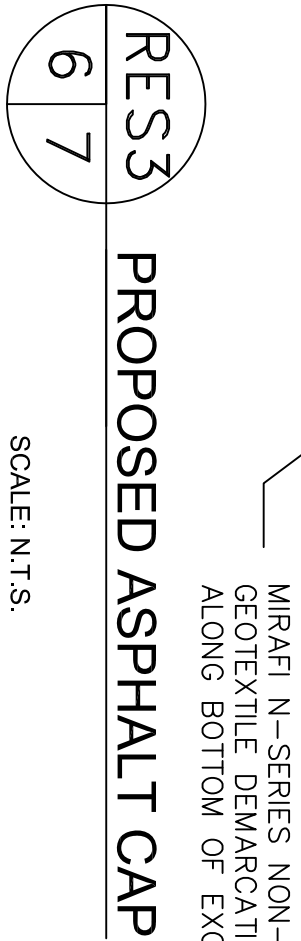
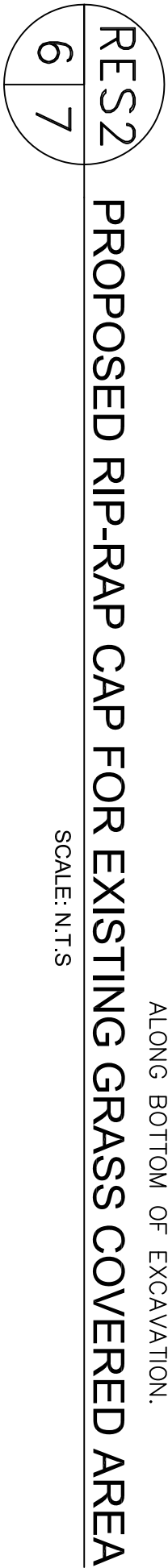
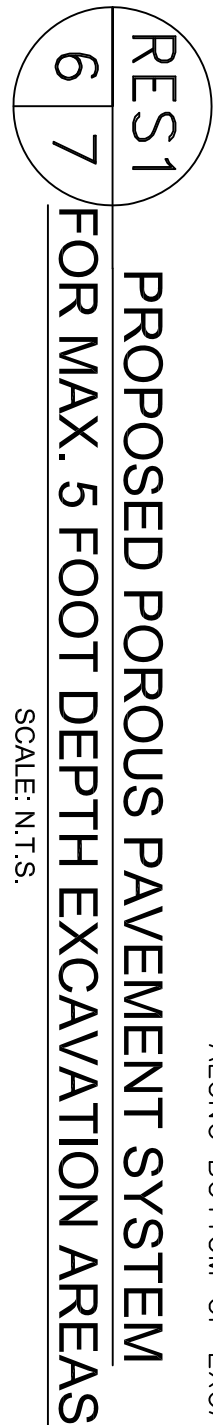
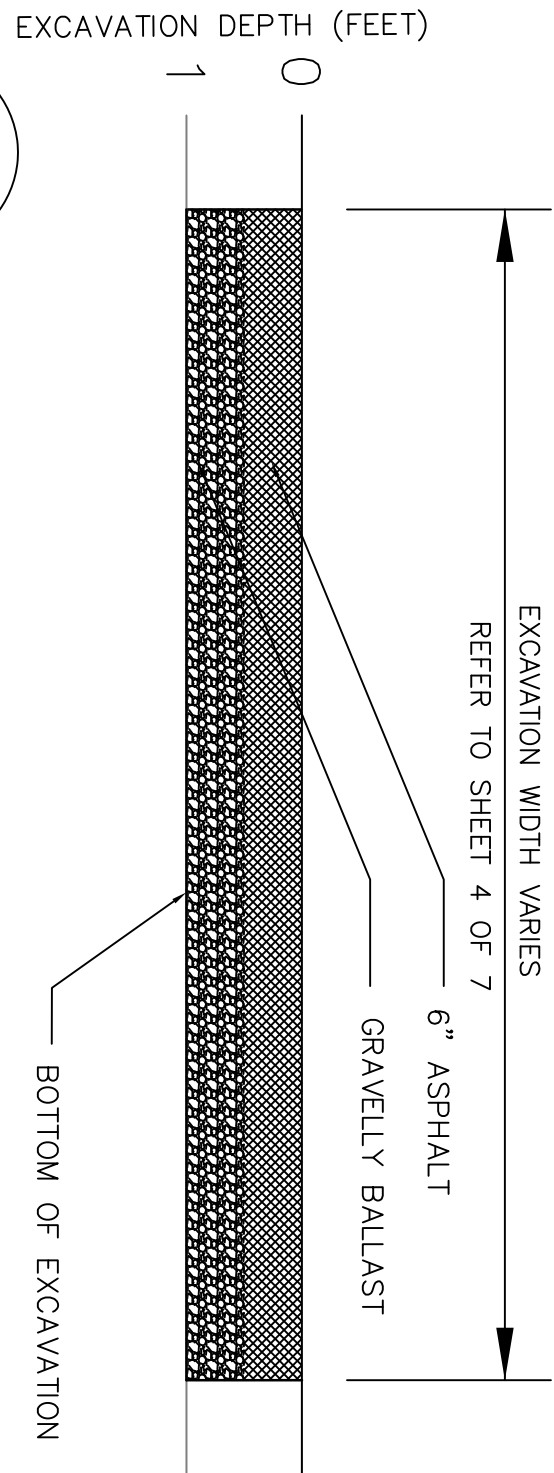
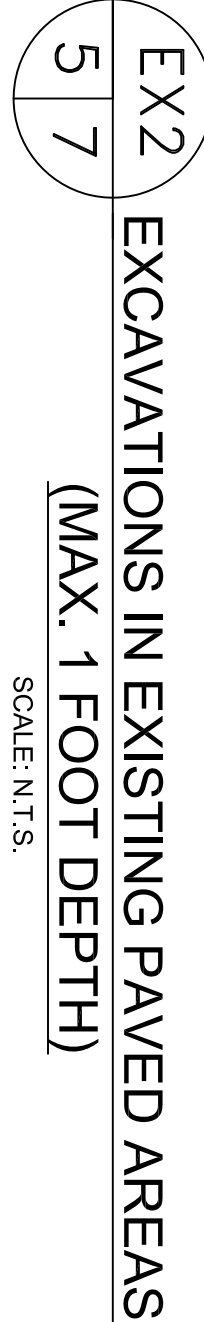
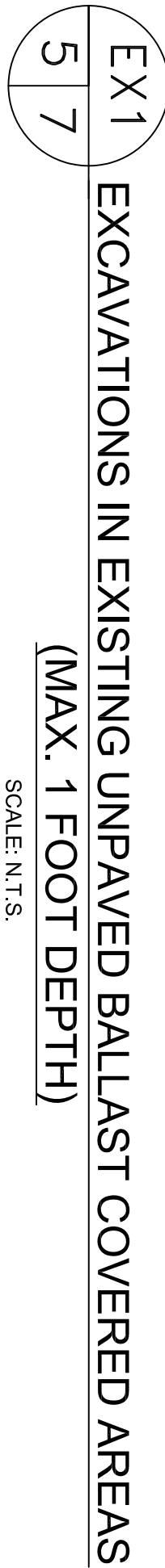
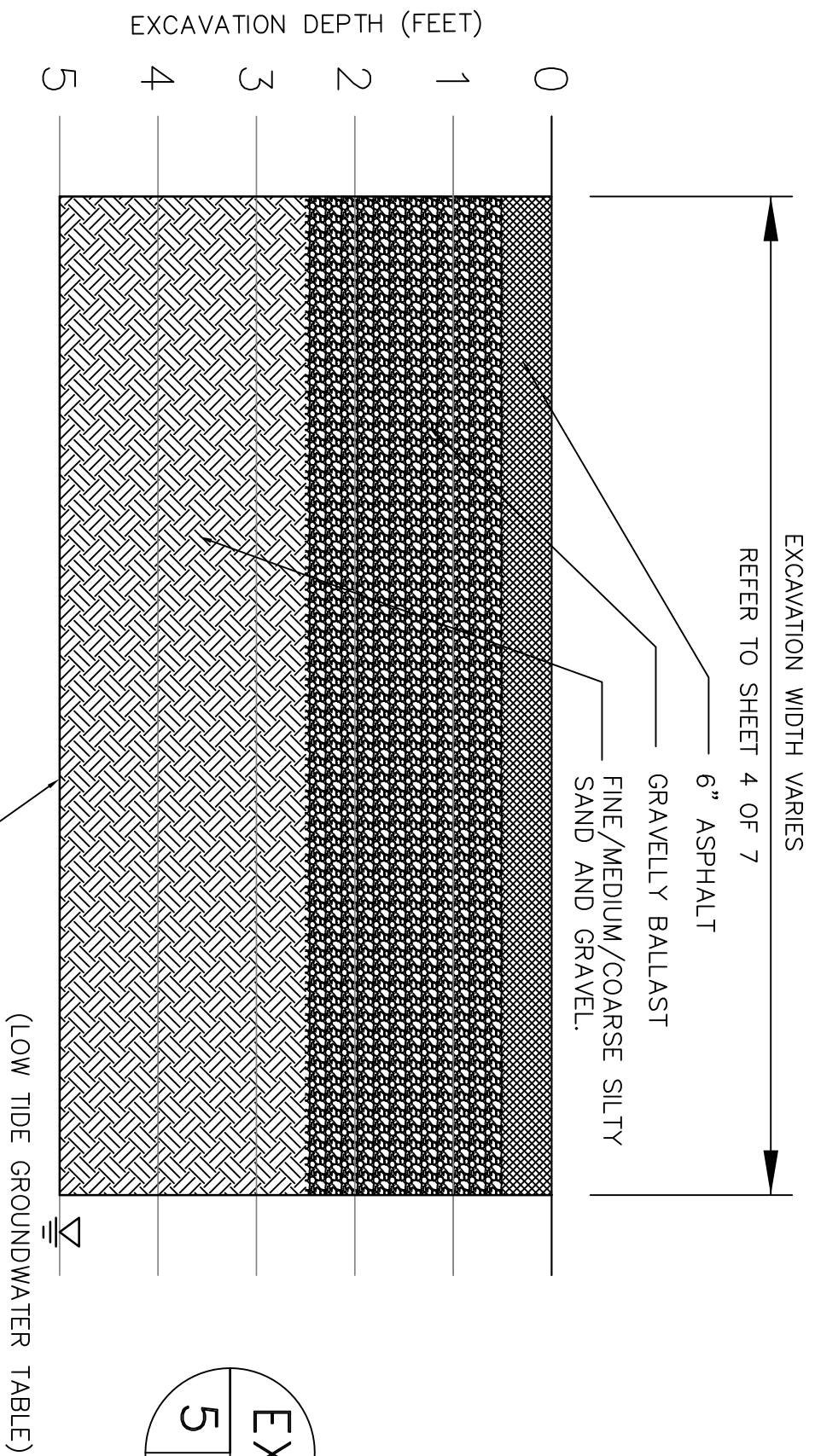
4. CONTRACTOR SHALL RESTRICT VEHICULAR ACCESS TO ALL HAY BALES OR SILT FENCE COVERED PROPOSED POROUS PAVEMENT AREAS, AND SHALL LIMIT VEHICULAR ACCESS TO THE EXTENT FEASIBLE TO THE PROPOSED POROUS PAVEMENT AREAS DURING ALL STAGES OF ITS CONSTRUCTION.

5. CONTRACTOR SHALL PLACE HAY BALES AROUND SLOTTED DRAIN SYSTEMS AFTER CONSTRUCTION WHERE PRACTICAL. AT LOCATIONS WHERE VEHICULAR ACCESS ARE NECESSARY, SLOTTED DRAIN SYSTEMS SHALL BE INSTALLED AFTER ALL RESTORATION ACTIVITIES (TO THE EXTENT FEASIBLE) AND COVERED WITH PROPERLY SECURED PLASTIC SHEETS THROUGH THE COMPLETION OF ALL SITE RESTORATION ACTIVITIES.

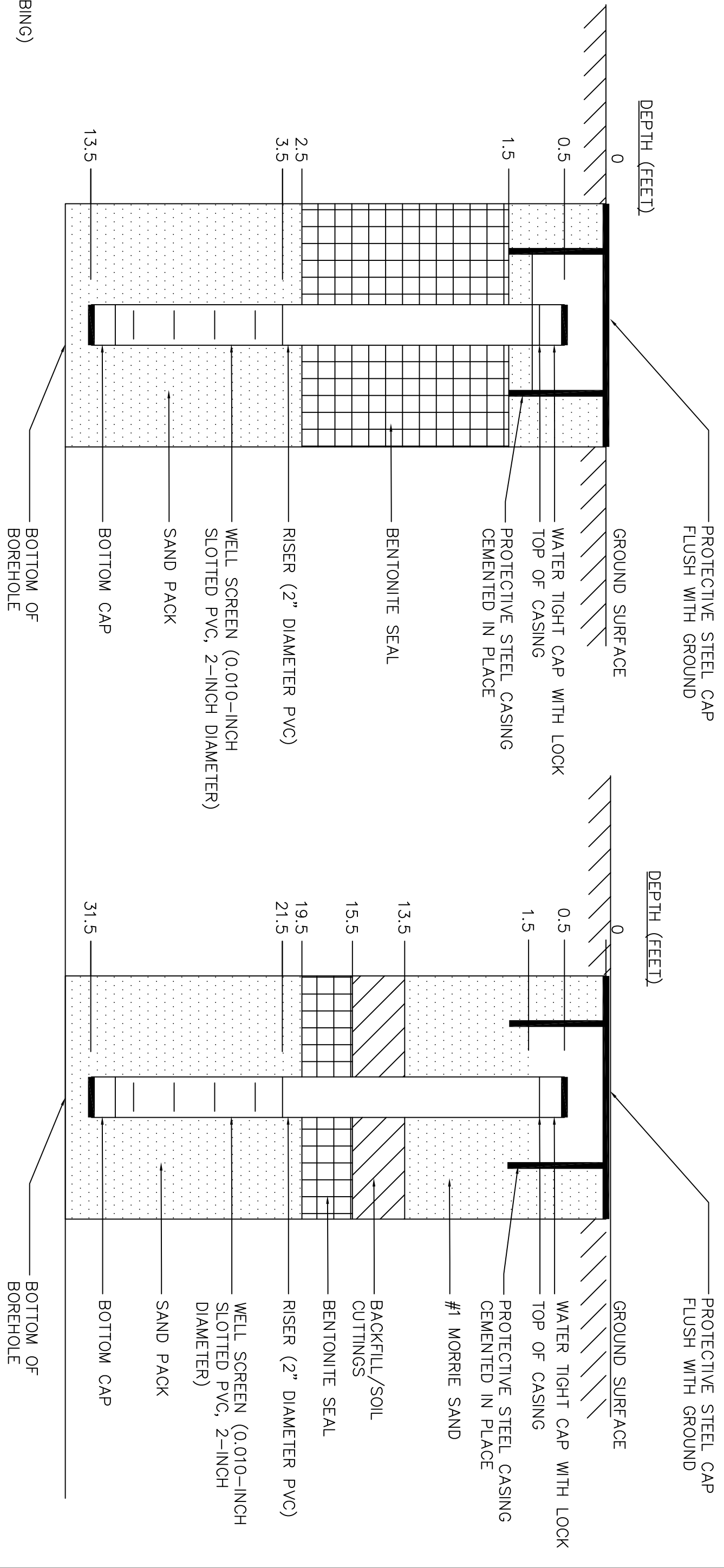
6. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY AREAS OUTSIDE OF CONSTRUCTION AREAS DAMAGED DURING WORK ACTIVITIES TO PRE-EXISTING CONDITIONS.

	
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION	
EA ENGINEERING, P.C. AND ITS AFFILIATE EA SCIENCE AND TECHNOLOGY	
	
SITE REMEDIATION PROJECT METAL ETCHING SITE, FREEPORT, NASSAU COUNTY, NEW YORK	
SITE RESTORATION AND STORMWATER MANAGEMENT PLAN	
	THE LOUIS BERGER GROUP, INC. 1412 MOUNT KEMBLE AVENUE MORRISTOWN, NEW JERSEY
SCALE: AS SHOWN	DATE: AUGUST 16, 2010
PROJECT NO.: JG 50001	
DRAWN BY: A.L.	CHECKED BY: A.R.
SHEET NO.: 6 OF 8	APPROVED BY: A.K.





SLOTTED DRAIN SYSTEM DETAIL






NOTES:

- TYPICAL DETAILS SHOWN ON THIS PLAN DEPICT ANTICIPATED EXISTING SUBSURFACE CONDITIONS BASED ON PREVIOUS INVESTIGATIONS, AND MAY DIFFER FROM ACTUAL CONDITIONS.
- CONTRACTOR SHALL REMOVE ANY REMNANT FOUNDATION WALLS THAT MAY BE ENCOUNTERED DURING EXCAVATION. CONTRACTOR SHALL SHOW THE EXISTING REMNANT FOUNDATION WALLS ON THE EXCAVATION PLAN. EXCAVATION OF CONTAMINATED SOILS WITHIN THE LIMITS OF EXCAVATION, AS PER SPECIFICATION SECTION 02111 - EXCAVATION AND HANDLING OF CONTAMINATED SOILS AND FOR THE PURPOSE OF PROPER SITE RESTORATION AS PER SPECIFICATION SECTION 02402 - SITE RESTORATION AND SPECIFICATION SECTION 02404 - POROUS PAVEMENT SYSTEM.
- SOIL EXCAVATIONS WITH MAXIMUM DEPTH OF 5 FEET SHALL BE LIMITED BY THE DEPTH TO LOW TIDE GROUNDWATER TABLE, WHICH IS ANTICIPATED TO BE APPROXIMATELY 5 FEET BELOW EXISTING GROUND SURFACE.
- MAXIMUM 5 FOOT DEPTH EXCAVATION AREAS SHALL BE BACKFILLED USING GRANULAR FILL TO THE BOTTOM OF RESERVOIR COURSE. LAYER ELEVATION AS SHOWN ON DETAIL RES1 AND COMPACTED AS PER SPECIFICATION SECTION 02400 BRITANNIA AND FILL MATERIALS.
- UNDISTURBED/CLEANED AREAS AND MAXIMUM 1 FOOT DEPTH EXCAVATION AREAS SHALL BE CAPPED AS SHOWN ON RES3 DETAIL, AND AS PER SPECIFICATION SECTION 02402 - SITE RESTORATION.
- FREEPORT ELECTRIC RIGHT-OF-WAY (R.O.W.) AREA SHALL NOT BE PAVED OR CAPPED.
- GRASS AND TOPSOIL SHALL BE REMOVED FROM GRASS COVERED AREA LOCATED ALONG SOUTHWESTERN EDGE OF SITE AND THE AREA SHALL BE RESTORED WITH 8 INCHES OF RIP-RAP UNDERLAIN BY A MIRAFI N-SERIES NON-WOVEN GEOTEXTILE, AS PER SPECIFICATION SECTION 02402 - SITE RESTORATION.
- PLACEMENT OF 1/2 INCH DIAMETER HOLES ALONG THE PIPE INVERT SHALL BE AT THE TANGENTS OF THE CORRUGATIONS AND NOT IN A GREST OR VALLEY. HOLES SHALL BE PLACED ALONG THE INVERT EVERY 8 INCHES CENTER TO CENTER.
- DURING INSTALLATION, RECESS THE TOP OF THE GRATE 1/4 INCH BELOW THE FINISHED GRADE OF THE PAVEMENT.

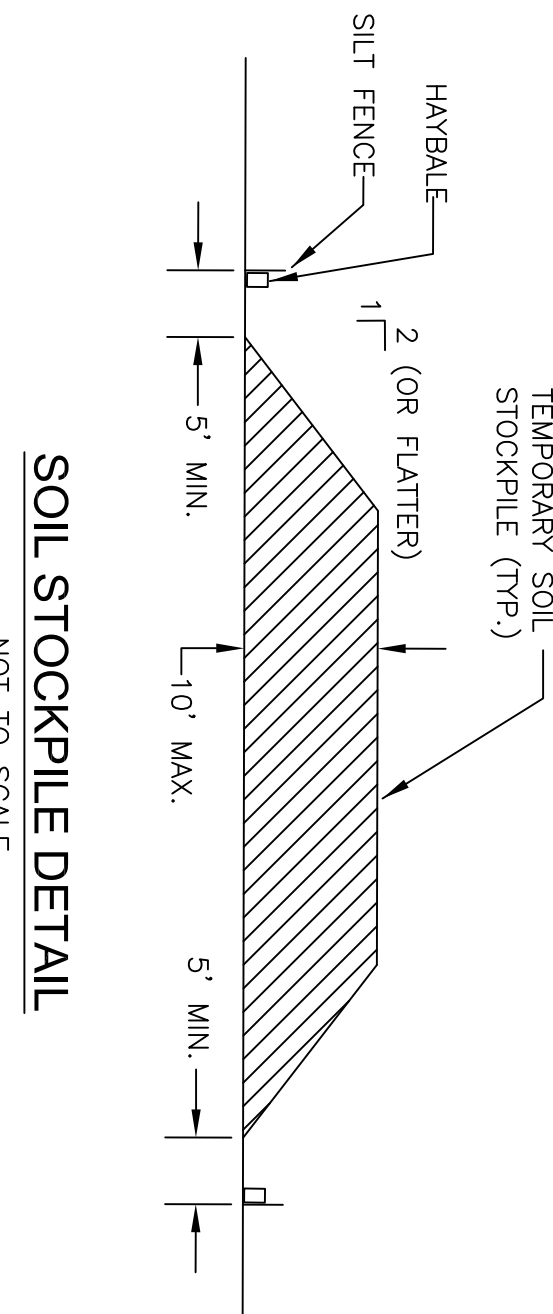
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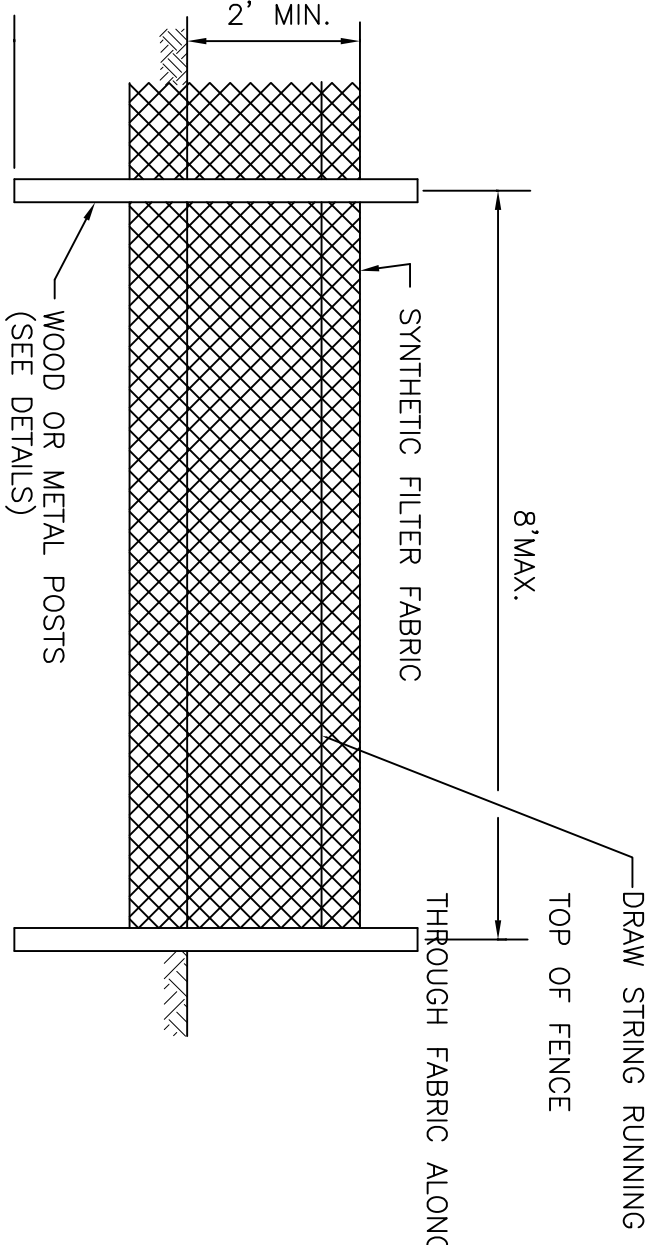
		NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION	
		EA ENGINEERING, P.C. AND ITS AFFILIATE EA SCIENCE AND TECHNOLOGY	
SITE REMEDIATION PROJECT METAL ETCHING SITE, FREEPORT, NASSAU COUNTY, NEW YORK			
CONSTRUCTION DETAILS			
		THE LOUIS BERGER GROUP, INC. 412 MOUNT KEMBLE AVENUE MORRISTOWN, NEW JERSEY	
SCALE: AS SHOWN	DATE: AUGUST 16, 2010	PROJECT NO.: JG 50001	DRAWN BY: A.L. CHECKED BY: A.R. APPROVED BY: A.R.
			SHEET NO.: 7 OF 8





NOTE: STABILIZED CONSTRUCTION ENTRANCE SHALL EXTEND TO WITHIN LIMITS OF PROPOSED PAVED APRON UNTIL PAVED APRON IS INSTALLED.

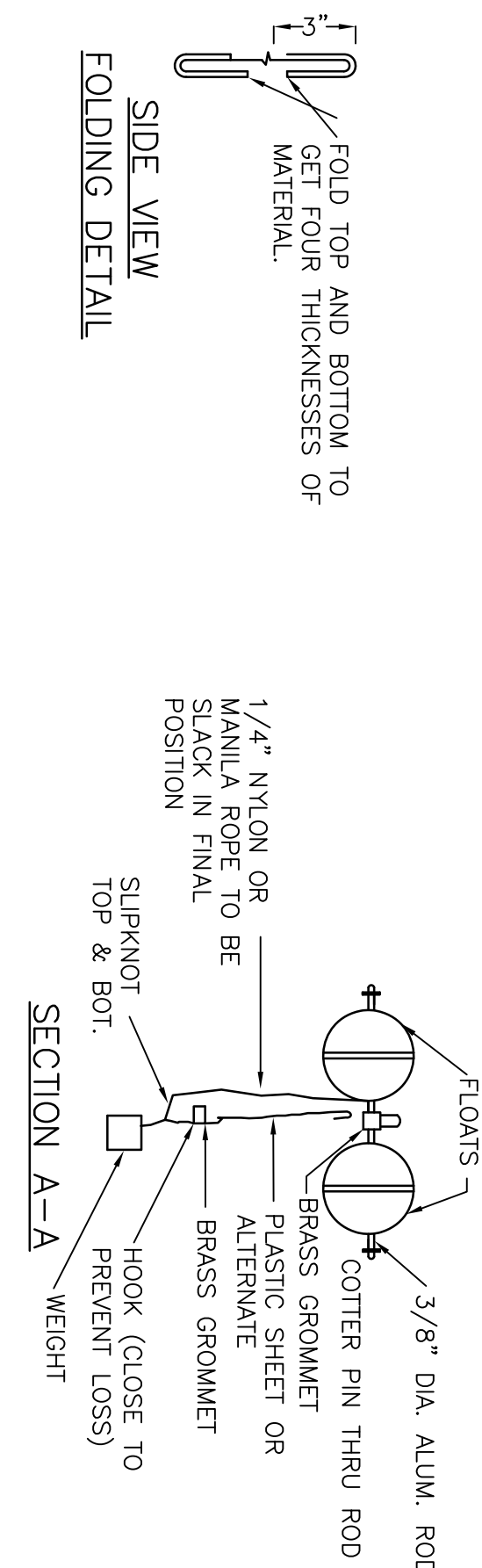
NOT TO SCALE



The diagram illustrates the layout of the 'SITE' and 'OFF-SITE' areas. A horizontal line represents the 'FENCE POSITION'. Below this line, a circular symbol indicates the 'SILT FENCE'. The area to the left of the fence is labeled 'EXISTING GROUND'. The area to the right of the fence is labeled 'OFF-SITE'. A dimension line indicates a distance of '2'-0"' from the fence position to the existing ground. The 'SITE' area is defined by a '1" x 4" ORANGE PLASTIC MESH' and a 'FENCE POSITION' line. The 'OFF-SITE' area is defined by a 'L.O.D.' (Line of Demarcation) line.

NOT TO SCALE

NOT TO SCALE




NOT TO SCALE

1. SOIL EROSION AND SEDIMENT CONTROL DETAILS PROVIDED ON THIS PLAN ARE TYPICAL DETAILS PROVIDED FOR GUIDANCE PURPOSE ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEVELOPING APPROPRIATE DETAILS FOR THE PURPOSES OF PREPARING AND SUBMITTING A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) AND THE MAINTENANCE OF THE SWPPP TO THE LOCAL DEPARTMENT APPROVAL, AND TO THE ENGINEER.
2. ALL STORM DRAINAGE INLETS SHALL BE PROTECTED BY ONE OF THE PRACTICES ACCEPTED IN THE STANDARDS AND REMAIN UNTIL PERMANENT STABILIZATION HAS BEEN ESTABLISHED. STORM DRAINAGE OUTLET POINTS SHALL BE PROTECTED AS REQUIRED BEFORE THEY BECOME FUNCTIONAL.
3. ALL EROSION CONTROL DEVICES SHALL BE PERIODICALLY INSPECTED, MAINTAINED, AND CORRECTED BY THE CONTRACTOR. ANY DAMAGE INCURRED BY EROSION SHALL BE RECTIFIED IMMEDIATELY.
4. ASPHALT PAVED AREAS AND CONCRETE COVERED AREAS MUST BE KEPT CLEAN AT ALL TIMES AND NOT UTILIZE A FIRE OR GARDEN HOSE TO CLEAN ASPHALT PAVED AREAS. ONLY A PRESSURIZED WATER WASHING SYSTEM SHALL BE USED TO CLEAN SEDIMENT BASIN. ALL PUMP DEMANDING OPERATIONS SHALL BE DIRECTED TOWARD A FUNCTIONING SEDIMENT BASIN, IF INSTALLED.
5. ALL TRUCKS AND VEHICLES FREQUENTLY ENTERING AND LEAVING THE SITE SHALL REMAIN ON EXISTING PAVED AND/OR EXISTING BALLAST COVERED AREAS AT ALL TIMES. IN THE EVENT THAT ACCESS TO AREAS WITHIN THE LIMITS OF THE UNPAVED AREAS IS NECESSARY FOR THESE PURPOSES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ACCESS TO THESE AREAS. SUCH ACCESS SHALL BE LIMITED USING 2-1/2" CRUSHED STONE TO A MINIMUM LENGTH OF 50 FEET.
6. MAXIMUM SOIL SLOPES SHALL NOT EXCEED 2:1 UNLESS ADDITIONAL MEASURES ARE TAKEN AND APPROVED BY THE APPROPRIATE SOIL CONSERVATION DISTRICT. THESE "SPECIAL" MEASURES SHALL BE DESIGNED BY THE APPLICANT'S ENGINEER.

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

EA ENGINEERING, P.C. AND ITS AFFILIATE  
EA SCIENCE AND TECHNOLOGY

2

 <p>THE LOUIS BERGER GROUP, INC. 412 MOUNT KEMBLE AVENUE MORRISTOWN, NEW JERSEY</p>	SCALE: AS SHOWN	DATE: AUGUST 16, 2010	PROJECT NO.: JG 50001	DRAWN BY: A.L.
				CHECKED BY: A.R.
				APPROVED BY: A.K.
				SHEET NO.: 8 OF 8