



**U S Army Corps
of Engineers**
Huntington District

Public Notice

In reply refer to Public Notice No.

2006-02257-OHR

Issuance Date:

March 18, 2008

Stream:

Ohio River – MP 338

Closing Date:

April 2, 2008

Please address all comments and inquiries to:

U.S. Army Corps of Engineers, Huntington District

ATTN: CELRH-OR-F Public Notice No. (*reference above*)

502 Eighth Street

Huntington, West Virginia 25701-2070

Phone: (304) 399-5210

CORRECTION TO PUBLIC NOTICE

TO WHOM IT MAY CONCERN: The following application has been submitted for a Department of the Army Permit under the provisions of Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act.

APPLICANT: New Steel International, Inc.
6730 Roosevelt Avenue
Franklin, Ohio 45005

CORRECTION: The proposal was originally advertised on Public Notice (PN) on February 12, 2008 with an expiration date of March 12, 2008. This PN was provided to the Ohio mailing list but was inadvertently not provided to the Kentucky mailing list. Please find enclosed a copy of the original PN for your review.


Ginger Mullins
Chief, Regulatory Branch

(KY)



Public Notice

**U S Army Corps
of Engineers**
Huntington District

In reply refer to Public Notice No.

2006-02257-OHR

Issuance Date:

February 12, 2008

Stream:

Ohio River – MP 338

Closing Date:

March 12, 2008

Please address all comments and inquiries to:

U.S. Army Corps of Engineers, Huntington District

ATTN: CELRH-OR-F Public Notice No. (*reference above*)

502 Eighth Street

Huntington, West Virginia 25701-2070

Phone: (304) 399-5210

PUBLIC NOTICE: The purpose of this public notice is to inform you of a proposal for work in which you might be interested. It is also to solicit your comments and information to better enable us to make a reasonable decision on factors affecting the public interest. We hope you will participate in this process.

REGULATORY PROGRAM: Since its early history, the U.S. Army Corps of Engineers (Corps) has played an important role in the development of the nation's water resources. Originally, this involved construction of harbor fortifications and coastal defenses. Later duties included the improvement of waterways to provide avenues of commerce. An important part of our mission today is the protection of the nation's waterways through the administration of the Corps Regulatory Program.

SECTION 10: The Corps is directed by Congress under Section 10 of the Rivers and Harbors Act of 1899 (33 USC 403) to regulate all work or structures in or affecting the course, condition or capacity of navigable waters of the United States (U.S.). The intent of this law is to protect the navigable capacity of waters important to interstate commerce.

SECTION 404: The Corps is directed by Congress under Section 404 of the Clean Water Act (33 USC 1344) to regulate the discharge of dredged and fill material into all waters of the United States, including wetlands. The intent of the law is to protect the nation's waters from the indiscriminate discharge of material capable of causing pollution and to restore and maintain their chemical, physical and biological integrity.

TO WHOM IT MAY CONCERN: The following application has been submitted for a Department of the Army Permit under the provisions of Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act.

APPLICANT: New Steel International, Inc.
6730 Roosevelt Avenue
Franklin, Ohio 45005

LOCATION: The project area is located in jurisdictional waters of the United States in the Ginat Creek and Ohio River watersheds. The proposed fleeting facility is located on the right descending bank of the Ohio River, 337.4-338.0 miles downstream of Pittsburgh, Pennsylvania in Haverhill, Scioto County, Ohio. The site is bisected by Gallia Pike, which runs north-south and is located west of State Route 52, east of the Ohio River and north of Ironton/Rankie Road in Haverhill, Scioto County, Ohio.

DESCRIPTION OF PROPOSED WORK: The applicant proposes to place fill material into waters of the United States in association with the construction of steel manufacturing facility. This facility would consist of a steel finishing facility, a slag/scrap staging area, a power transfer station, two ponds (one process water pond and one stormwater retention pond), a cooling facility, material storage areas, processed water intake caisson and associated roads and rail lines. In addition, a loading, unloading and fleeting facility would be located along the Ohio River between milepoint 337.4 and 338.0. According to the applicant, the purpose of the project is to construct, maintain and operate a steel manufacturing facility.

The project area encompasses approximately 800 acres. Waters of the United States within the limits of the site include 7.27 acres of jurisdictional wetlands, 78 linear feet of ephemeral stream, 5,018 linear feet of perennial stream (Ginat Creek) and approximately 3,000 linear feet of the Ohio River. Isolated waters of the State of Ohio include 10.61 acres of wetlands.

The applicant proposes to construct the steel facility in phases over a period of three years. The applicant proposes to impact a total of 2.77 acres of jurisdictional wetlands and 78 linear feet of ephemeral stream in association with construction of the steel manufacturing facility. An additional 9.39 acres of isolated wetlands would be impacted in association with construction activities. Details concerning individual wetlands proposed to be impacted and their quality (as assessed by the Ohio Rapid Assessment Method (ORAM) protocol) are attached (Table 1).

The applicant proposes to construct a barge loading, unloading and fleeting facility between milepoint 337.4 and 338.0 of the Ohio River. Materials to be unloaded are coal, ore and steel scrap. Materials to be loaded include steel rolls. A dock measuring 85 feet in width and extending 153 linear feet riverward from the normal pool shoreline would be constructed to support a crane and trucks for unloading. This dock would be supported by a series of steel caissons. The fleeting facility would consist of an upstream fleeting facility (full barges, ready to be unloaded), temporarily moored barges staged for unloading, an unloading area at the dock, and a downstream fleeting facility (empty barges). The facility would extend for a total distance of 3,050 linear feet along the riverbank. Each component of the river facility is described in further detail below.

A maximum of 24 barges (six long by four wide) would be fleeted at the upstream end of the facility and would consist of full barges staged for unloading. This upstream facility would extend 289 feet riverward from the normal pool shoreline. These barges would be secured to concrete deadmen secured on the top of the riverbank and a sheet piling cell that would also serve as a water intake structure. A 20-foot diameter steel caisson would be constructed to serve

as a water intake structure. This cell would require that 12 cubic yards of material be dredged at the base. A total of 82 cubic yards of fill would be discharged at the base of this cell in association with stabilization. A total of 600 cubic yards of fill material would be placed into the cell.

A maximum of four barges (1 long by 4 wide) would be secured just downstream of the fleet and would be moored to two 25' wide sheet piling cells. Each of these cells would require that 12 cubic yards of material be dredged at the base. A total of 82 cubic yards of fill would be discharged at the base of each of these cells in association with stabilization. A total of 998 cubic yards of fill material would be placed into each cell. These barges would be moored in this location in preparation for unloading.

The unloading area, consisting of the dock described above and no more than one barge at a time, would be just downstream of the staging area. The barge being unloaded would be secured to 72" pipe dolphins that are placed 153 linear feet riverward from the normal pool shoreline.

Empty barges would be fleeted in the downstream fleeting area and would consist of a maximum of 24 barges (six long by four wide). This fleet would extend a maximum of 222 linear feet riverward of the normal pool shoreline. These barges would be secured to 72" pipe dolphins that are placed 153 linear feet riverward of the normal pool shoreline and to concrete deadmen secured on the top of the riverbank.

MITIGATION: To compensate for proposed impacts to jurisdictional waters of the United States, the applicant has proposed avoidance, minimization and compensation measures. The applicant proposes to avoid impacts to 4.5 acres of jurisdictional wetlands, 1.22 acres of isolated wetlands and 5,021 linear feet of Ginat Creek. To minimize impacts to waters of the United States, the applicant proposes to implement best management construction practices. To compensate for impacts to waters of the United States, the applicant currently proposes to purchase 26.45 acres of credit from the Red Stone Farm Wetland Mitigation Bank located in Cynthiana, Pike County, Ohio.

ALTERNATIVE ANALYSIS: A total of 2.77 acres of jurisdictional wetlands would be filled as a result of the proposal. The project does not require access to or siting within the wetlands to fulfill its basic purpose and is considered a non-water dependent activity. The Section 404(b)(1) Guidelines state for non-water dependent activities, practicable alternatives that do not involve wetlands are presumed to be available unless clearly demonstrated otherwise. The applicant is required to provide an alternative analysis that must overcome the presumption prior to receiving authorization for the placement of fill material. A preliminary alternative analysis has been submitted to this office for review.

ATTACHMENTS: Plans of the proposed work are attached to this notice.

WATER QUALITY CERTIFICATION: A Section 401 Water Quality Certification is required for this project. It is the applicant's responsibility to obtain that certification from the Ohio Environmental Protection Agency.

HISTORIC & CULTURAL RESOURCES: The applicant has completed and submitted the results of a Phase I Cultural Resources Management Survey. Based on the results of this survey, 44 archaeological sites have been identified within the limits of the project area. Based on coordination of the results of this survey with the Ohio Historic Preservation Office (OHPO), it has been determined additional study is needed to assess the eligibility of eight sites. In addition to the above sites, it has also been determined that the Dudit Cemetery is within the project area and should be regarded as eligible for listing on the National Register of Historic Places.

This office is coordinating with the applicant and the OHPO regarding Phase II work that should occur at the above-referenced sites. Should any of the sites above be deemed eligible for listing on the Register, the applicant would be required to avoid these sites, if practicable. If avoidance is not possible, this office will coordinate with the applicant, the OHPO and other interested parties to resolve proposed adverse effects. This office initiated coordination with Tribes that may have an interest in this proposal by letter dated December 13, 2007. This office has also initiated consultation with the Ohio Cemetery Preservation Society and the Cemetery Committee to resolve effects to the Dudit Cemetery.

A copy of this public notice will be sent to the Ohio Historic Preservation Office (OHPO) for their review. Comments concerning archeological sensitivity of a project area should be based upon collected data.

THREATENED & ENDANGERED SPECIES: This project is located within the known or historic range of the Indiana bat (Endangered); running buffalo clover (E); Virginia spiraea (Threatened); small whorled pogonia (T), rayed bean (Candidate); and sheepnose mussel (C).

Based on the project location and habitat availability on-site, the proposal may affect Federally-listed threatened and endangered species. Based on the applicant's avoidance and minimization measures, it is expected that the proposal is not likely to adversely affect the species listed above. The applicant has provided information that they have conducted habitat surveys and collected other information that should be useful in assisting this office in making determinations concerning the effect this proposal may have on listed species. Following receipt of this information, this office will review the information and coordinate with the U.S. Fish and Wildlife Service as appropriate.

This public notice serves as a request to the U.S. Fish and Wildlife Service for any additional information they may have whether any listed or proposed to be listed endangered or threatened species may be present in the area that would be affected by the activity, pursuant to Section 7(c) of the Endangered Species Act of 1972 (as amended).

PUBLIC INTEREST: Any person who has an interest, which may be adversely affected by the issuance of a permit, may request a public hearing. The request must be submitted in writing to the District Engineer on or before the expiration date of this notice and must clearly set forth the interest which may be adversely affected and the manner in which the interest may be adversely affected by the activity.

Interested parties are invited to state any objections they may have to the proposed work. The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefit, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. All factors that may be relevant to the proposal will be considered, including the cumulative effects thereof; among those are: conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership and, in general, the needs and welfare of the people. In addition, the evaluation of the impact of the activity on the public interest will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency, under the authority of Section 404(b) of the Clean Water Act. Written statements on these factors received in this office on or before the expiration date of this public notice will become a part of the record and will be considered in the final determination. A permit will be granted unless its issuance is found to be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

CLOSE OF COMMENT PERIOD: All comments pertaining to this Public Notice must reach this office on or before the close of the comment period listed on page one of this Public Notice. Persons wishing to submit comments, objections or requests for public hearings concerning the Corps of Engineers permit should write:

U.S. Army Corps of Engineers
ATTN: CELRH-OR-F **Public Notice No. 2006-02257-OHR**
502 8th Street
Huntington, West Virginia 25701-2070

Please note, the names and addresses of those who submit comments in response to this public notice become part of our administrative record and, as such, are available to the public under provisions of the Freedom of Information Act. Thank you for your interest in our nation's water

resources. If you have any questions concerning this public notice, please call Ms. Desiree L. Hann of the North Regulatory Section at 304-399-5210.



Ginger Mullins
Chief, Regulatory Branch

(O)

Table 1. Proposed impacts to waters of the United States and isolated waters of the State of Ohio in association with construction of a steel facility located in Haverhill, Scioto County, Ohio.

Wetland	Total acreage	ORAM category	Proposed impacts	Proposed avoidance
A	0.44 *	Category 1	0.44	0
B	0.49	Category 1	0.49	0
C	0.02 *	Category 1	0.02	0
D/G	0.1	Category 1	0.1	0
F	0.07	Category 1	0.07	0
H	0.21 *	Category 1	0.21	0
J	1.26 *	Modified Category 2	1.26	0
J(2)	0.15 *	Modified Category 2	0.15	0
K	4.5	Category 3	0	4.5
L	0.22 *	Modified Category 2	0	0.22
M	3.09 *	Category 2	3.09	0
N	1.78 *	Category 1	1.55	0.23
O	1.19	Category 2	1.19	0
Q	0.19 *	Category 1	0.19	0
R(1)	0.14 *	Category 2	0.02	0.12
R(2)	0.22 *	Category 2	0.22	0
R(3)	0.25 *	Category 2	0.25	0
R(4)	0.02	Category 2	0.02	0
R(5)	0.07	Category 2	0.07	0
R(6)	0.05 *	Category 2	0.05	0
R(7)	0.05 *	Category 2	0.05	0
S	1.4 *	Category 2	1.4	0
T(1)	0.2	Category 2	0.2	0
T(2)	0.65 *	Category 2	0	0.65
T(3)	0.02	Category 1	0.02	0
AA	0.24	Category 2	0.24	0
BB	0.37	Category 2	0.37	0
CC	0.49 *	Category 2	0.49	0
Total			12.16	5.72

*, Isolated waters of the State of Ohio

Table 2 Summary of jurisdictional and isolated waters proposed to be impacted and proposed to be avoided in association with the proposed steel facility construction in Haverhill, Scioto County, Ohio.

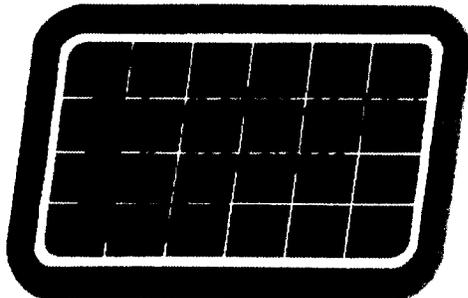
	Total wetland acreage	Proposed Impacts	Proposed avoidance
Jurisdictional waters	7.27	2.77	4.5
Isolated waters	10.61	9.39	1.22
Total	17.88	12.16	5.72



* Map Not to Scale Boundaries are approximated

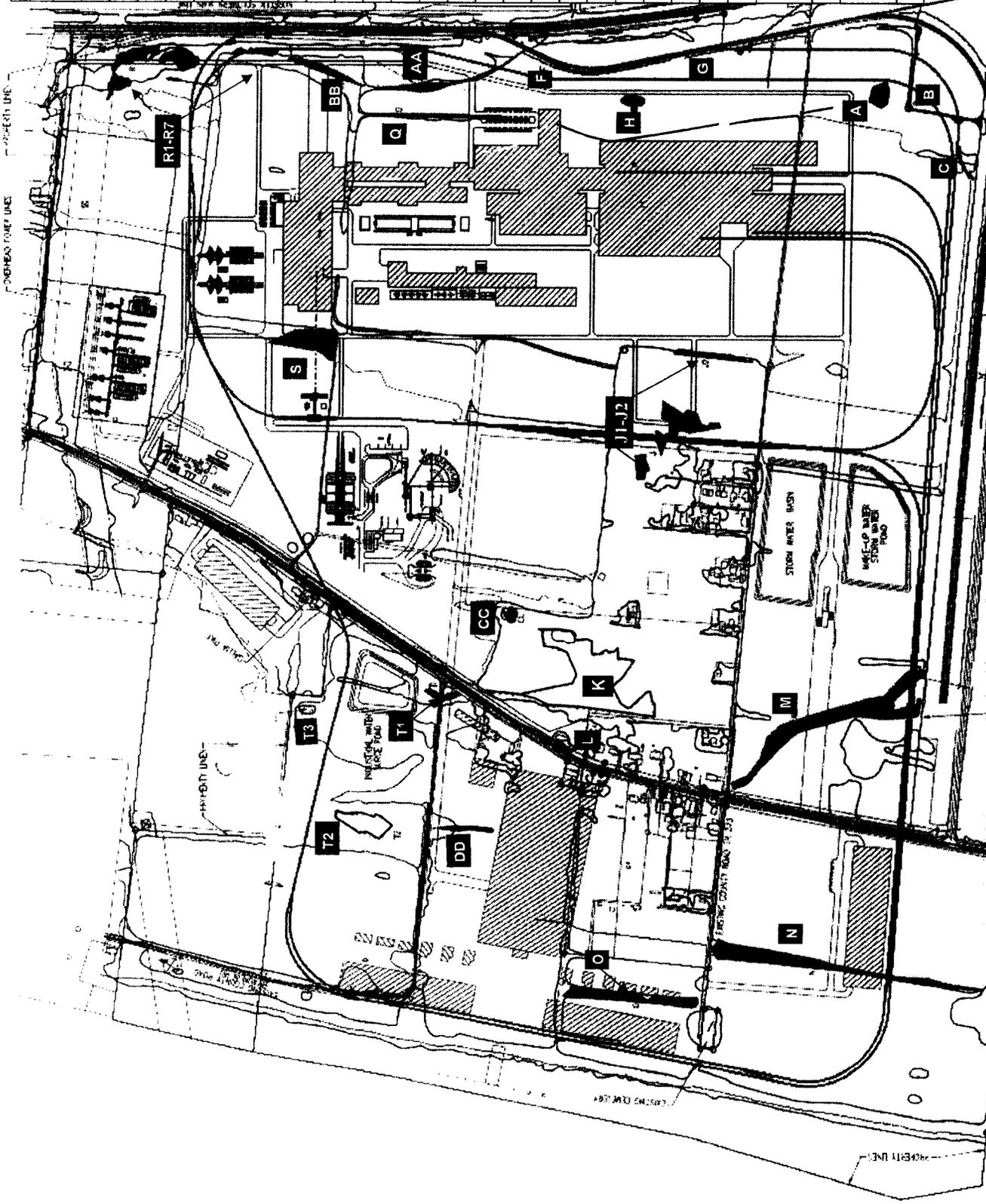


USGS Map Greenup, Ohio/Kentucky
Attained Through the U.S. Geological
Survey May Issued July, 1985

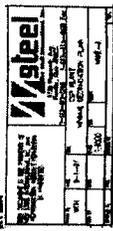


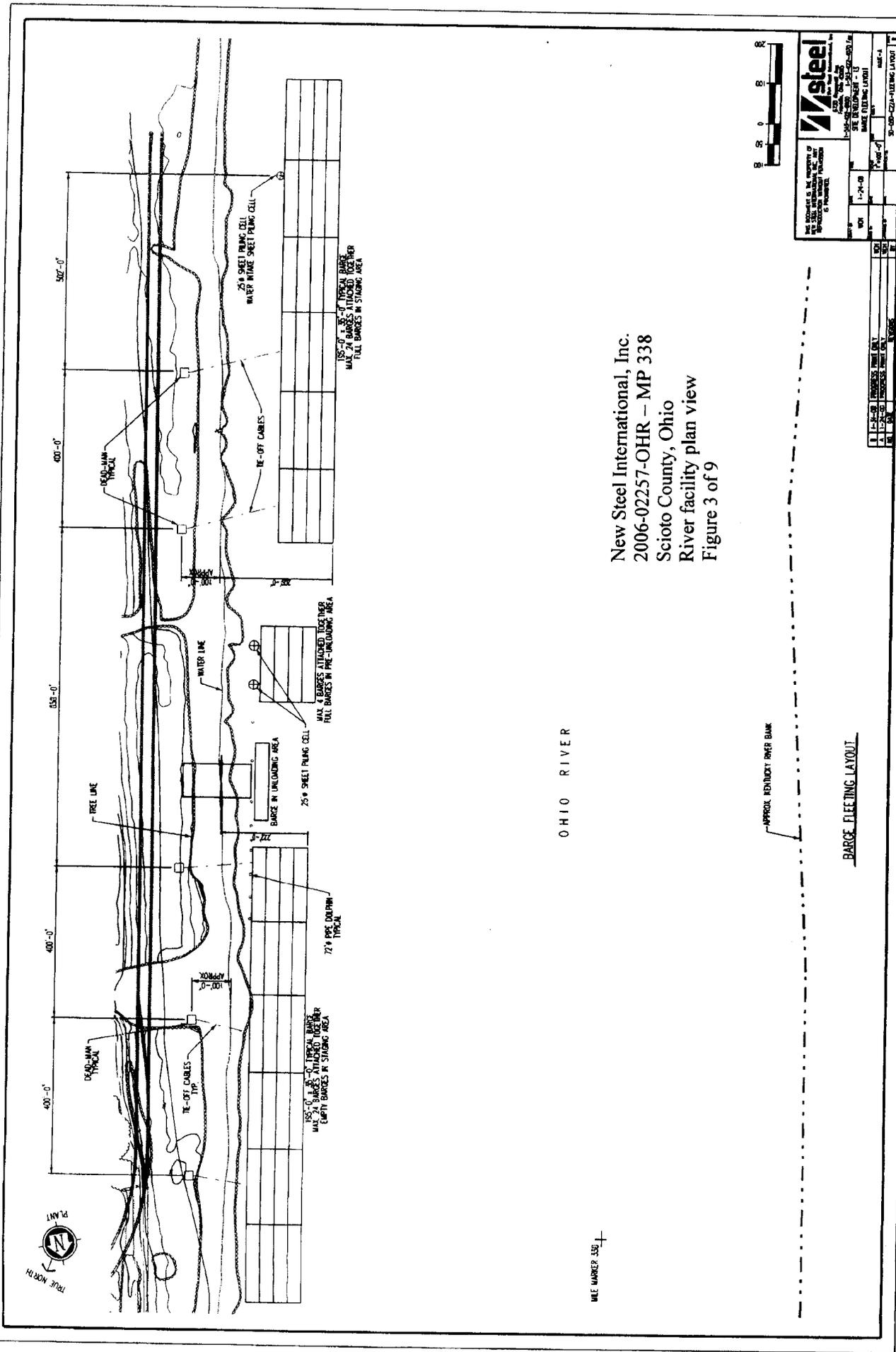
New Steel International, Inc.
2006-02257-OHR – MP 338
Scioto County, Ohio
Site Location Map
Figure 1 of 9

Wetland	Acreeage Filled
A	0.44
B	0.49
C	0.02
F	0.07
G	0.1
H	0.21
J	1.26
J2	0.15
M	3.09
N	1.55
O	1.19
Q	0.19
R (1)	0.02
R (2)	0.22
R (3)	0.25
R (4)	0.02
R (5)	0.07
R (6)	0.05
R (7)	0.05
S	1.4
T (1)	0.2
T (3)	0.02
AA	0.24
BB	0.37
CC	0.49
Ephemeral Stream Channel	Linear Feet Impacted
DD	78
Perennial Stream Channel	Linear Feet Impacted
Ohio River	1,500



New Steel International, Inc.
 2006-02257-OHR - MP 338
 Scioto County, Ohio
 Plan View
 Figure 2 of 9





New Steel International, Inc.
 2006-02257-OHR – MP 338
 Scioto County, Ohio
 River facility plan view
 Figure 3 of 9

steel

THE SCIENCE IS THE ADVANTAGE OF
 THE STEEL INDUSTRY. WE'VE GOT
 THE KNOWLEDGE AND THE SKILL
 TO INNOVATE.

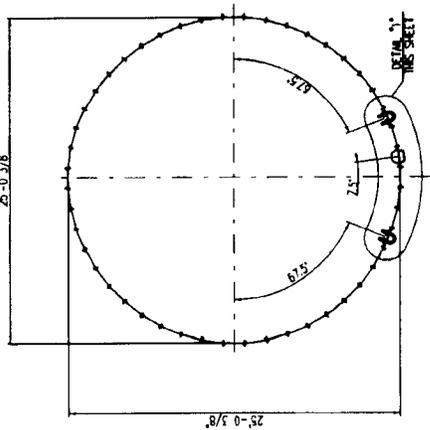
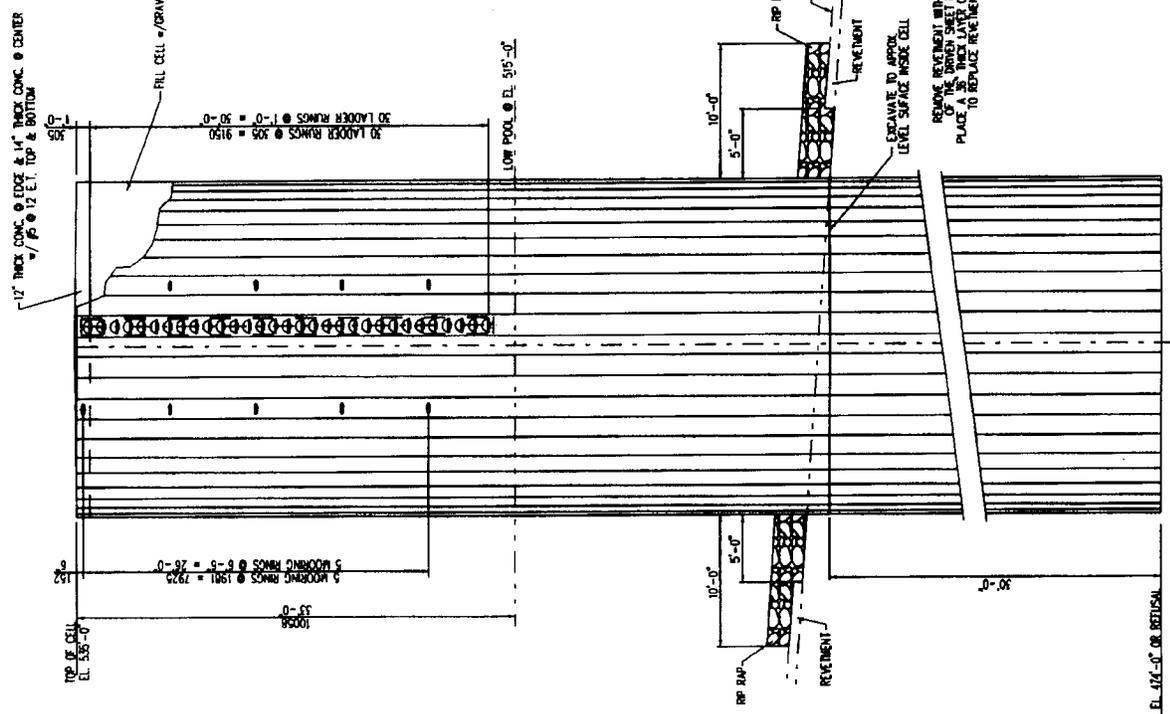
1-800-393-6343
 1-800-393-6343
 1-800-393-6343
 1-800-393-6343

DATE: 1-24-08
 PROJECT: 2006-02257-OHR
 SHEET: MP 338
 SCALE: AS SHOWN
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]

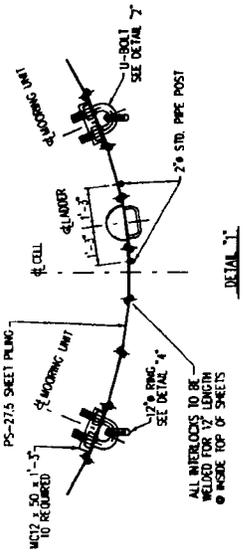
NO.	DATE	DESCRIPTION
1	1-24-08	ISSUED FOR PERMIT
2	1-24-08	ISSUED FOR PERMIT
3	1-24-08	ISSUED FOR PERMIT
4	1-24-08	ISSUED FOR PERMIT

GENERAL NOTES:

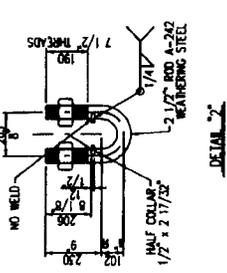
1. THE SHEET PILING SECTIONS USED IN THE CONSTRUCTION OF THE CELLS ARE TO BE NEW PS-27.5 CONFORMING TO ASTM A-308 STANDARD OF QUALITY.
2. THE RING BOTTOM UNDER THE AREA SHALL BE CLEANED OF ALL DEBRIS.
3. ALL SHEET PILING ARE TO BE DRIVEN TO THE ELEVATION SHOWN HEREON OR REFUSAL WHATEVER OCCURS FIRST.
4. ALL WORK SHALL BE ADEQUATELY BRACED DURING THE CONSTRUCTION PERIOD.
5. ALL STRUCTURAL STEEL SHAPES AND PLATES INDICATED ON THESE DRAWINGS SHALL BE ASTM A-36 GRADE, OR BETTER.
6. ALL CONNECTIONS ARE TO BE FULL STRENGTH WELDED CONNECTIONS, UNLESS OTHERWISE NOTED, AND SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE A.I.S.C. SPECIFICATIONS FOR WELDING.
7. WOODING RING "U"-BOLTS ARE TO BE FABRICATED FROM STEEL MEETING OR EXCEEDING ASTM A36-80 CRITERIA FOR WELDING STEEL.
8. ALL SHEET PILES SHALL BE DRIVEN BY USING A TEMPLATE AND SHALL BE VERTICALLY ALIGNED WITH THE CENTERLINE.
9. SPACERS SHALL BE PROPERLY ALIGNED, BUT WELDED AND STAGGERED VERTICALLY RELATIVE TO ADJACENT PILE SECTIONS.



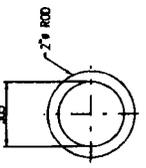
CELL PLAN



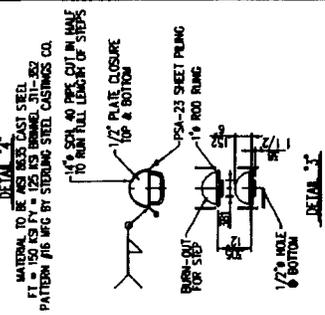
DETAIL 1



DETAIL 2



DETAIL 3



DETAIL 4

Steel

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PS-27.5 SHEET PILING
 1 1/2\"/>

New Steel International, Inc.
 2006-02257-OHR - MP 338
 Scioto County, Ohio
 Cross-section sheet pile cell
 Figure 4 of 9

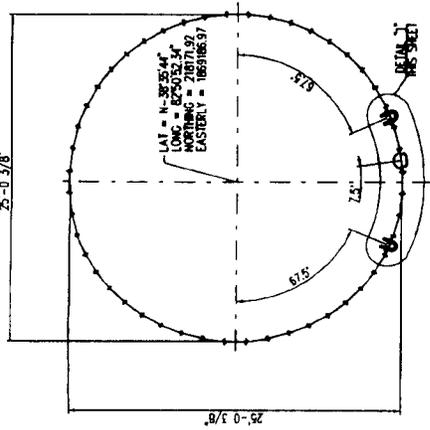
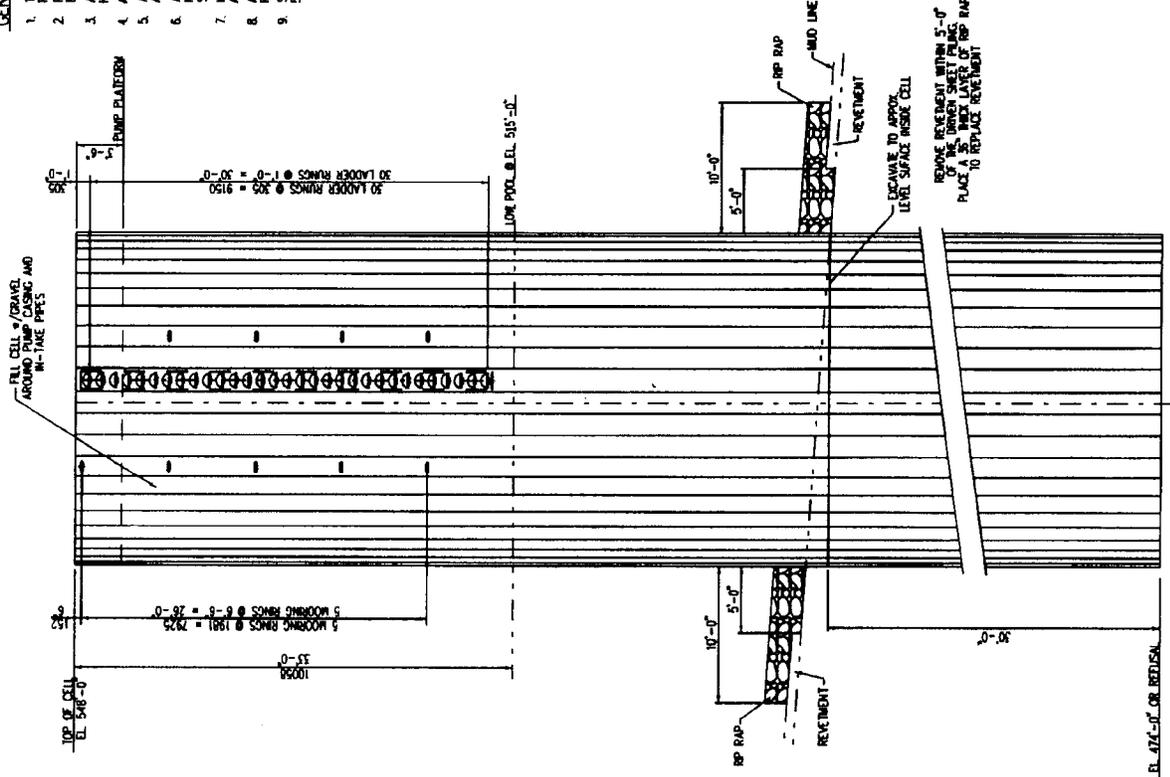
CELL ELEVATION

A 111

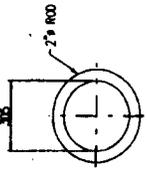
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GENERAL NOTES:

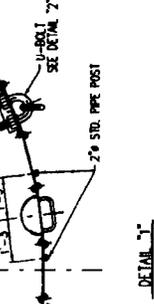
1. THE SHEET PILING SECTIONS USED IN THE CONSTRUCTION OF THE CELLS ARE TO BE NEW PS-27.5 CONFORMING TO ASTM A-238 STANDARD OF QUALITY.
2. PRIOR TO SETTING SHEETS, THE RIVER BOTTOM UNDER THE AREA SHALL BE CLEARED OF ALL DEBRIS.
3. ALL SHEET PILING ARE TO BE DRIVEN TO THE ELEVATION SHOWN HEREON OR REFUSAL UNLESS OTHERWISE SPECIFIED.
4. ALL WORK SHALL BE ADEQUATELY BRACED DURING THE CONSTRUCTION PERIOD.
5. ALL STRUCTURAL STEEL SHAPES AND PLATES INDICATED ON THESE DRAWINGS SHALL BE ASTM A-36 GRADE, OR BETTER.
6. ALL CONNECTIONS ARE TO BE FULL STRENGTH WELDED CONNECTIONS, UNLESS OTHERWISE NOTED, AND SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AISC SPECIFICATIONS FOR WELDING.
7. MOORING RING "J"-BOULDS ARE TO BE FABRICATED FROM STEEL WELDED OR EXCEEDING MOORING RING "J"-BOULDS ARE TO BE DRIVEN BY USING A TEMPLATE AND VERTICALLY PLUMB WITHIN A 5' VARIANCE.
8. ALL SHEET PILING SHALL BE PROPERLY ALIGNED, BUT WELDED AND STAGGERED SPACES IN SHEET PILING SHALL BE PROPERLY ALIGNED, BUT WELDED AND STAGGERED 5' VERTICALLY RELATIVE TO ADJACENT PILE SECTION.



CELL PLAN



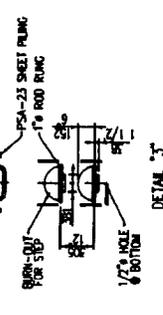
DETAIL 2



DETAIL 4



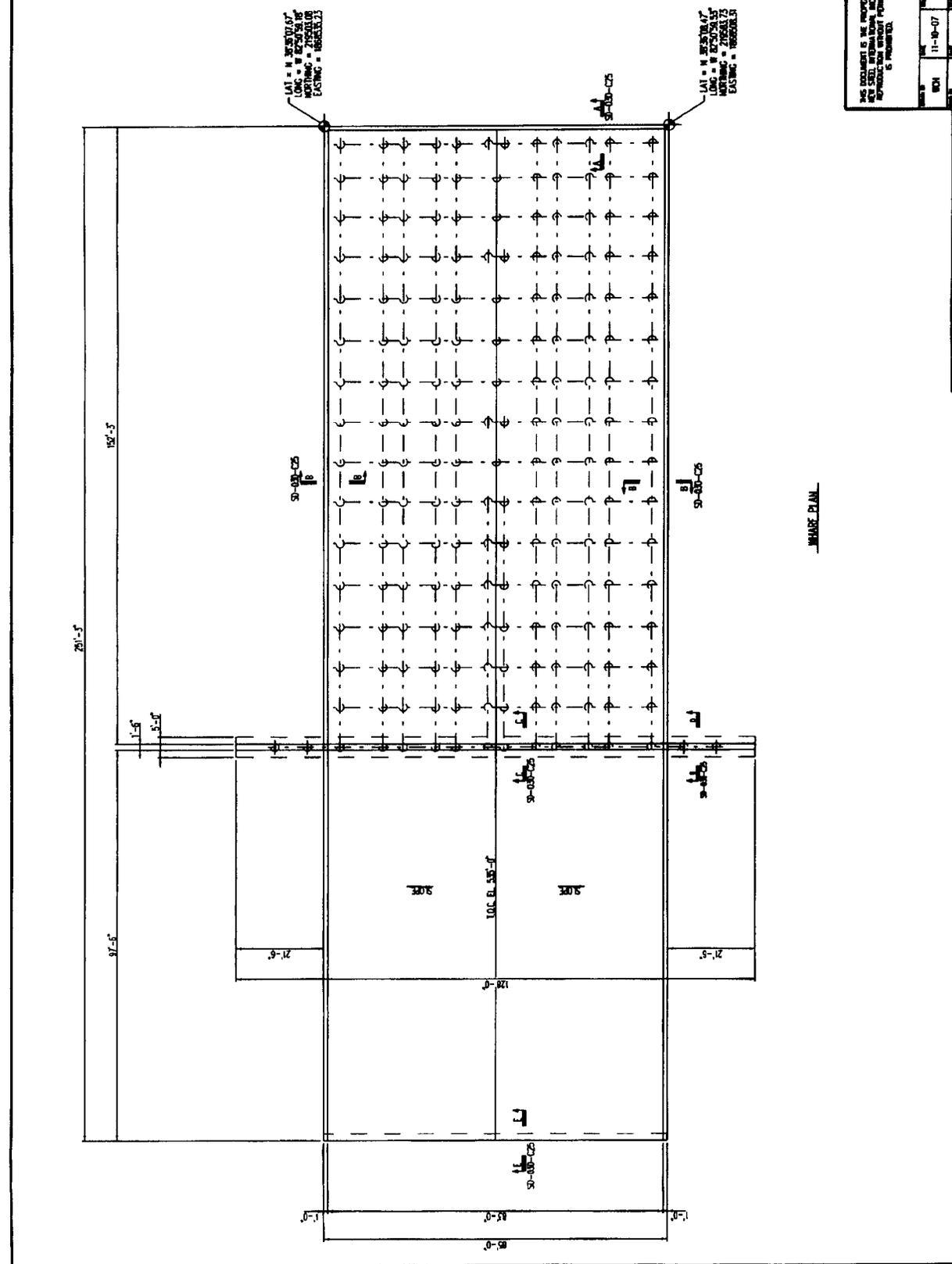
DETAIL 5



DETAIL 3

Steel
 NEW STEEL INTERNATIONAL, INC.
 4120 W. 10TH AVE.
 CHICAGO, ILL. 60643
 1-815-421-2000 FAX 1-815-421-4010
 SHEET NO. 13
 RIVER IN-TAKE SHEET PILE CELL
 DATE 10-6-07

New Steel International, Inc.
 2006-02257-OHR - MP 338
 Scioto County, Ohio
 Cross-section water intake structure
 Figure 5 of 9

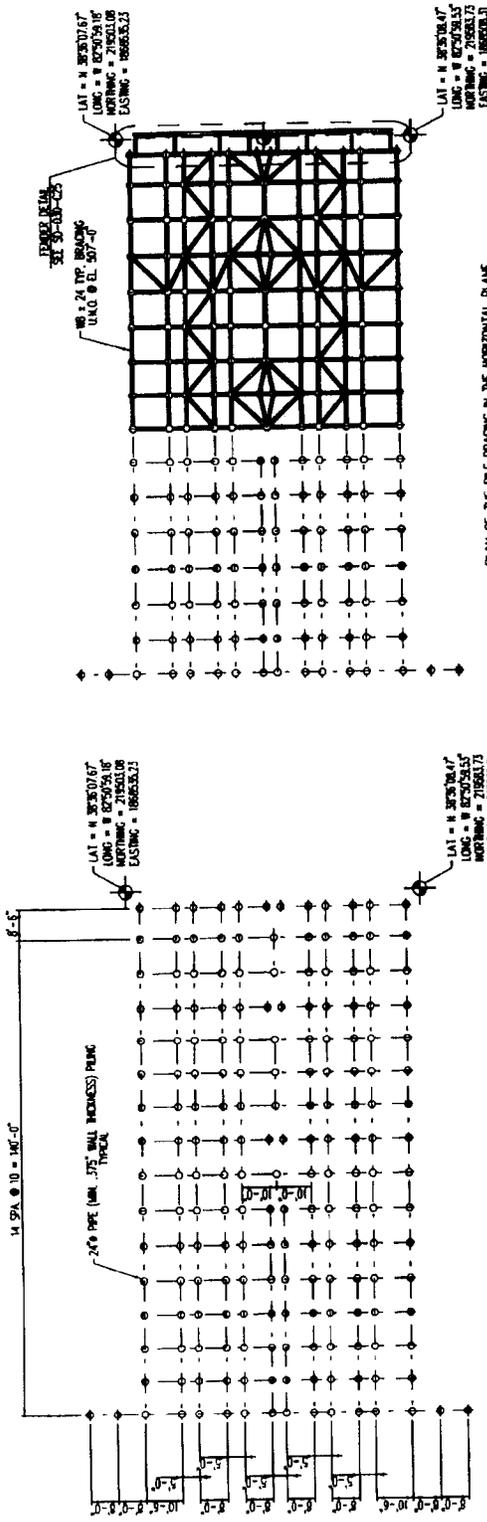


steel
1720, Walnut Ave.
MARIETTA, OHIO 45750
1-800-822-8800 FAX 614-422-0078
SHEETS 1-13
11-10-07
WAREHOUSE - WHARF PLAN
ME-A

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New Steel International, Inc.
2006-02257-OHR - MP 338
Scioto County, Ohio
Plan view unloading dock
Figure 6 of 9



PLAN OF THE PILE BRACING IN THE HORIZONTAL PLANE

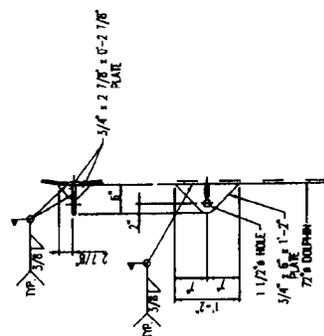
- GENERAL NOTES**
1. SHAWF IS DESIGNED FOR A BARRING USE LOAD OF 1000 PPF.
 2. ALL PILING TO BE PLACED IN PLACE CONCRETE. EXCEPT FOR THE PILES, SHALL DEVELOP A MINIMUM CAPACITY OF 100 TONS. ALL PILES SHALL BE FULLY ENCASED IN CONCRETE. ALL PILES SHALL BE FULLY ENCASED IN CONCRETE WHICH WILL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PPF.
 3. ALL 2x6 PIPES SHALL HAVE A 3/4" MINIMUM THICKNESS WITH A 1.5" TOP FLANGE AND SHALL BE BORED TO A MINIMUM CAPACITY OF 100 TONS. PILING SHALL BE FULLY ENCASED IN CONCRETE WHICH WILL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PPF.
 4. REINFORCING STEEL SHALL BE #4 BARS. BARS SHALL BE FULLY ENCASED IN CONCRETE WHICH WILL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PPF. ALL BARS SHALL BE FULLY ENCASED IN CONCRETE WHICH WILL DEVELOP A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PPF.
 5. THE FOLLOWING CONCRETE CODES SHALL BE PROVIDED FOR REINFORCING:
 - A) CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO AIR: 3 in. (75mm)
 - B) CONCRETE EXPOSED TO WEATHER: 2 in. (50mm)
 - C) CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH EARTH: 1 1/2 in. (38mm)

SIZE OF DOMESTIC FROM BOTTOM SLABS TO WHICH VERTICAL REINFORCING IS TO BE DEVELOPED	SIZE OF SPICE BARS TO WHICH TOP LIPS AND CORNER LIPS ARE TO BE DEVELOPED (EXCEPT TOP REINFORCING)	TOP REINFORCING ONLY
AS FOLLOWS (UNLESS OTHERWISE NOTED)	AS FOLLOWS (UNLESS OTHERWISE NOTED)	AS FOLLOWS (UNLESS OTHERWISE NOTED)
P1 = 300mm	P1 = 300mm	P1 = 300mm
P2 = 470mm	P2 = 470mm	P2 = 470mm
P3 = 570mm	P3 = 570mm	P3 = 570mm
P4 = 670mm	P4 = 670mm	P4 = 670mm
P5 = 770mm	P5 = 770mm	P5 = 770mm
P6 = 870mm	P6 = 870mm	P6 = 870mm
P7 = 970mm	P7 = 970mm	P7 = 970mm
P8 = 1070mm	P8 = 1070mm	P8 = 1070mm
P9 = 1170mm	P9 = 1170mm	P9 = 1170mm
P10 = 1270mm	P10 = 1270mm	P10 = 1270mm
P11 = 1370mm	P11 = 1370mm	P11 = 1370mm

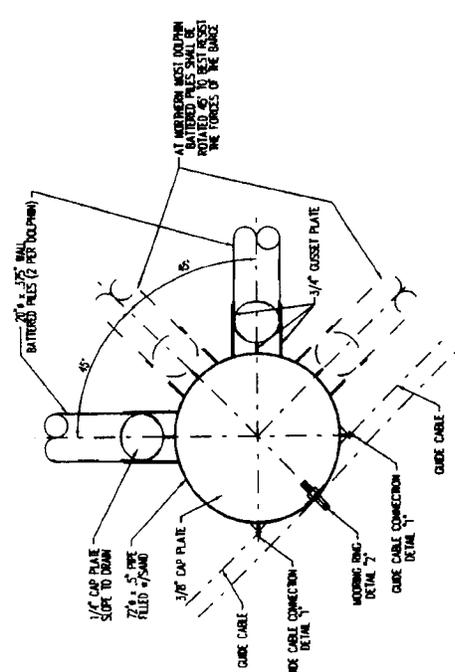
5. CHAMFER ALL EXPOSED EDGES OF CONCRETE. 3/4" (19mm) UNLESS NOTED OTHERWISE.

Steel
 3725
 1-855-550-7600
 11-10-07
 RDA
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 1/4" = 1'-0"
 SHAWF FACILITY - PILING PLANS
 MNC-A

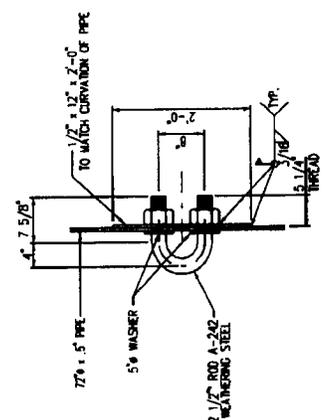
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 Scioto County, Ohio
 Piling plan, details
 Figure 7 of 9



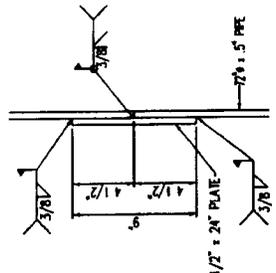
GUIDE CABLE BRACKET DETAIL 2'



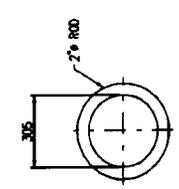
TOP PLAN OF DOWNHOLE
1/2" = 1'-0"



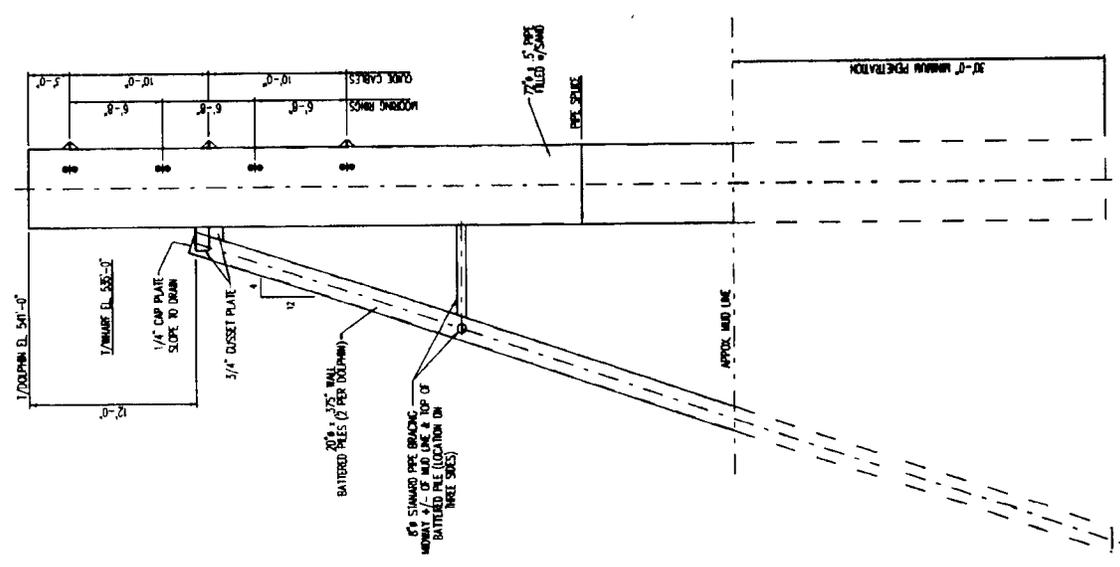
MOORING RING DETAIL 2'



SPICE DETAIL
1/2" = 1'-0"



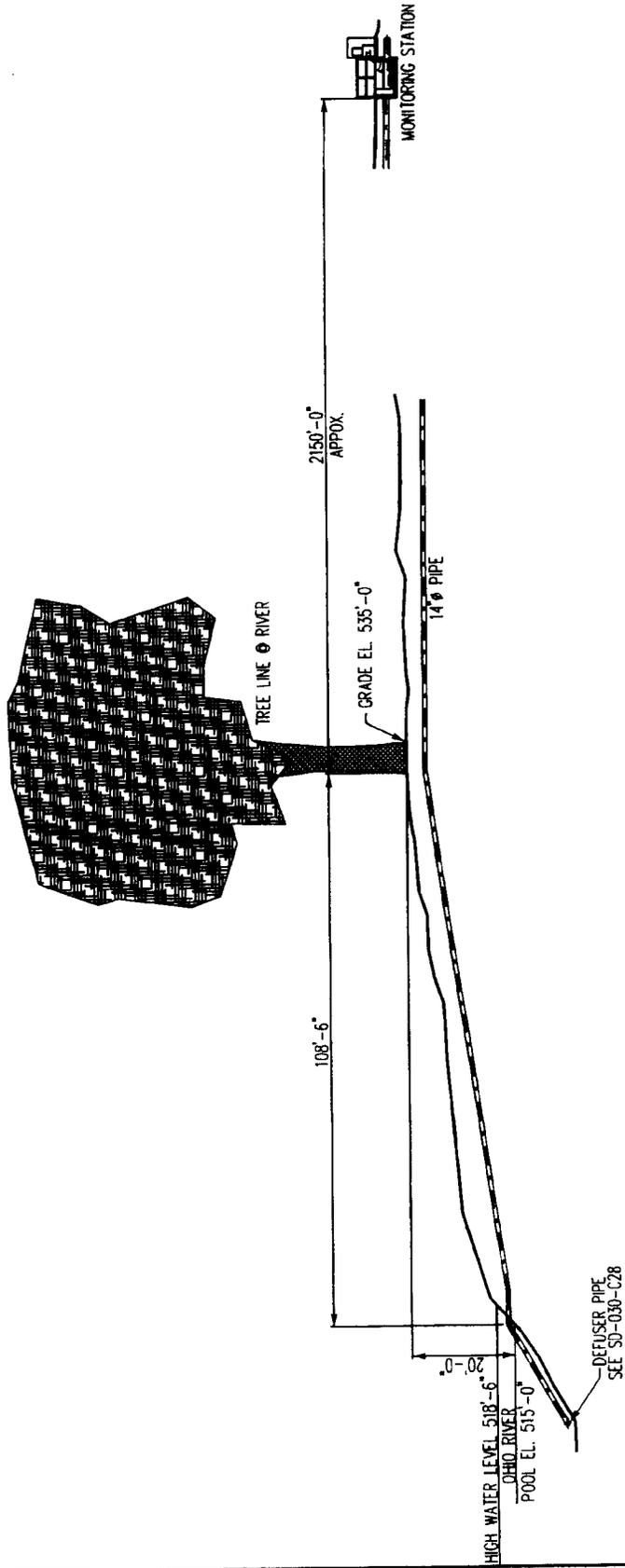
DETAIL 3/4"
MATERIAL: 304 SS, 316 SS, 317L SS
5/8" DIA. 316 SS PIPE, 316 SS WELDS
PATTERN #16 WEG BY STEERING STEEL CASTINGS CO.



ELEVATION OF 72" DOWNHOLE
1/4" = 1'-0"

steel
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1-813-627-8800
1-813-627-8818
1-813-627-8819
1-813-627-8820
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1-813-627-8847
1-813-627-8848
1-813-627-8849
1-813-627-8850

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Scioto County, Ohio
Dolphin details
Figure 8 of 9



steel
New Steel International, Inc.
6730 Roosevelt Ave.
Franklin, Ohio 45005
1-513-422-0100 1-513-422-4078 Fax

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DESIGNED BY	DATE	SCALE	SHEET	TOTAL
WCH	11-11-07	1" = 10'-0"		
CHECKED BY	DATE			
			SITE WORK - 13	OUT FALL - 001
				MMK-A

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Scioto County, Ohio
Outfall structure details
Figure 9 of 9

NO.	DATE	PROGRESS PRINT	REVISIONS
A	11-19-07		