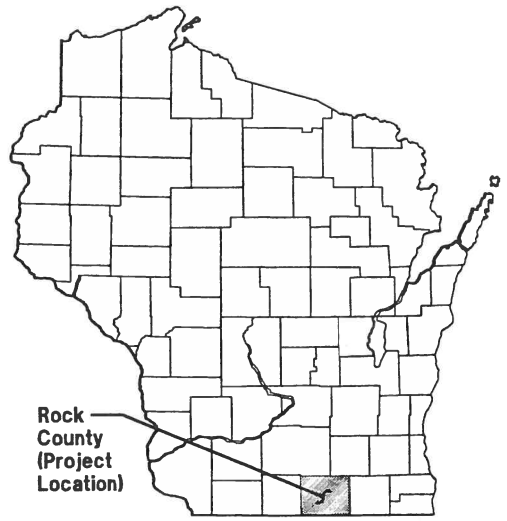
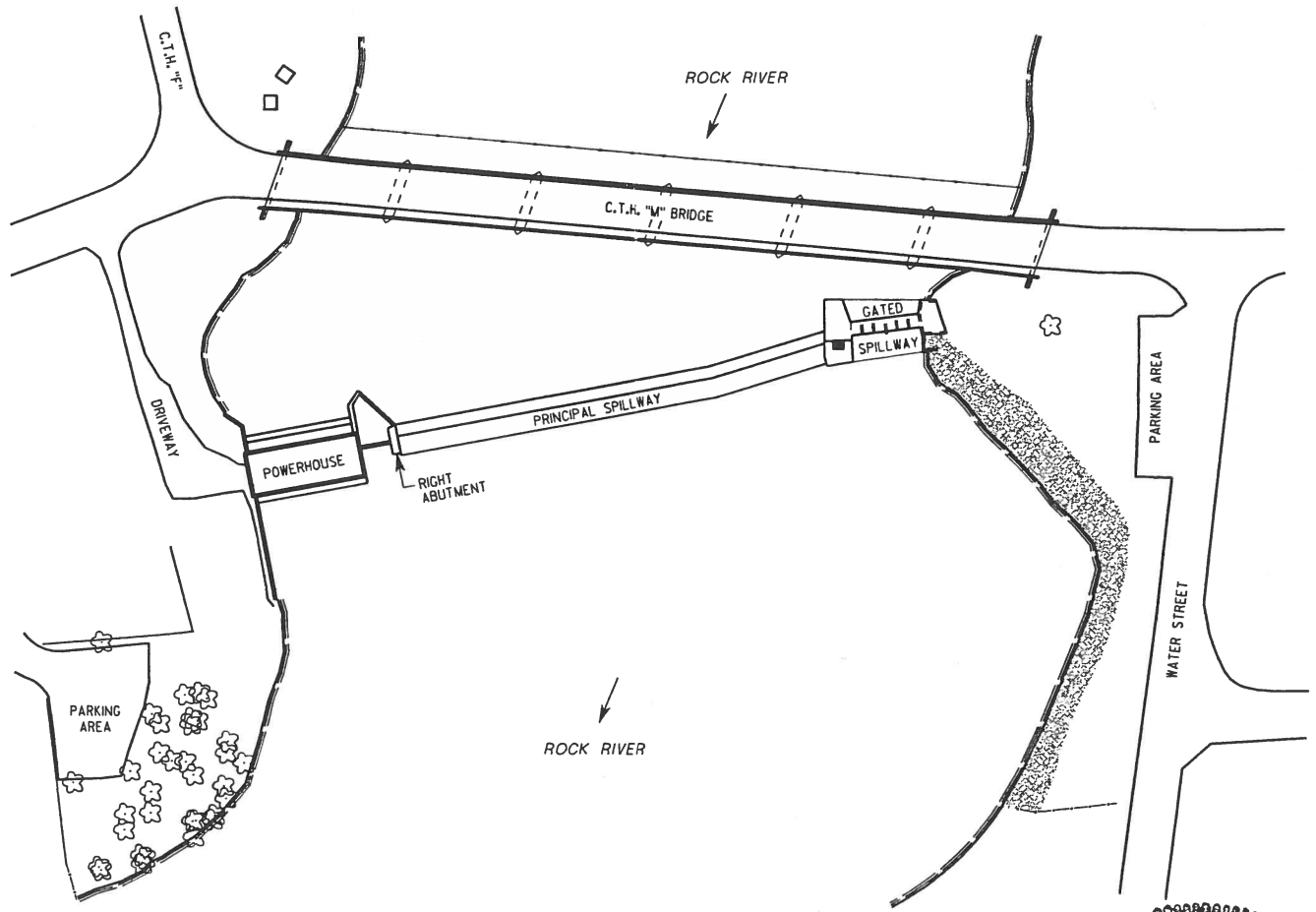
INDIANFORD DAM & POWERHOUSE REPAIRS

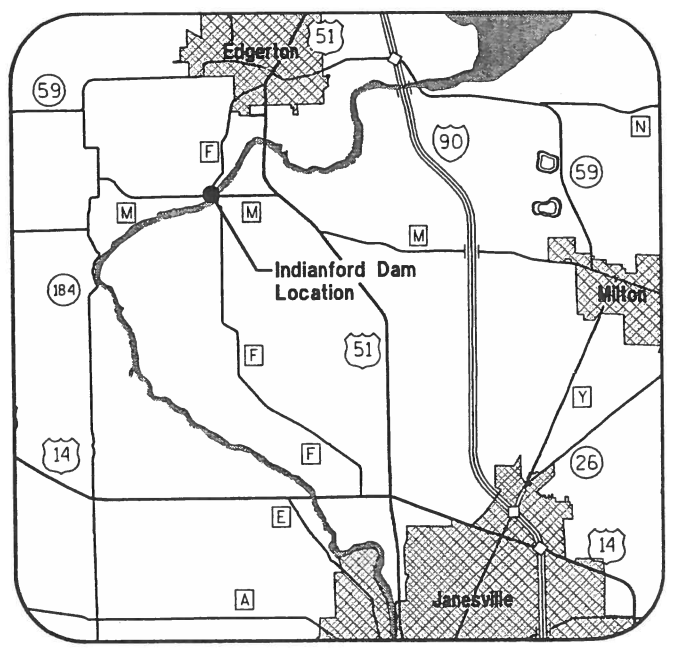
ROCK COUNTY, WISCONSIN
ROCK RIVER



WISCONSIN MAP



INDIANFORD DAM SITE PLAN



INDIANFORD DAM LOCATION MAP

DRAWING INDEX

A9059-01	Title Sheet and Drawing Index
A9059-02	General Site Plan
A9059-03	Right (West) Bank Repairs
A9059-04	Left (East) Bank Repairs
A9059-05	Riprap Details
A9059-06	Right (West) Spillway Abutment - Existing
A9059-07	Right (West) Spillway Abutment - Repairs
A9059-08	Gated Spillway Plan, Elevation and Sections
A9059-09	Slide Gates - Existing
A9059-10	Slide Gates - Modifications
A9059-11	Powerhouse Plan and Section
A9059-12	Powerhouse Elevations
A9059-13	Miscellaneous Details
A9059-14	Cofferdam Location Plan

WISCONSIN
GLENN R. KOEPP
E-14008
MADISON
WIS
PROFESSIONAL ENGINEER
7-8-03

INDIANFORD DAM & POWERHOUSE REPAIRS
ROCK COUNTY, WISCONSIN
ROCK RIVER
TITLE SHEET AND DRAWING INDEX

NO.	REVISION	DATE
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MEAD & HUNT ENGINEERS ARCHITECTS SCIENTISTS PLANNERS
6501 Watts Road, Madison, Wisconsin 53719-2700
Phone: 608-273-6380 Fax: 608-273-6391

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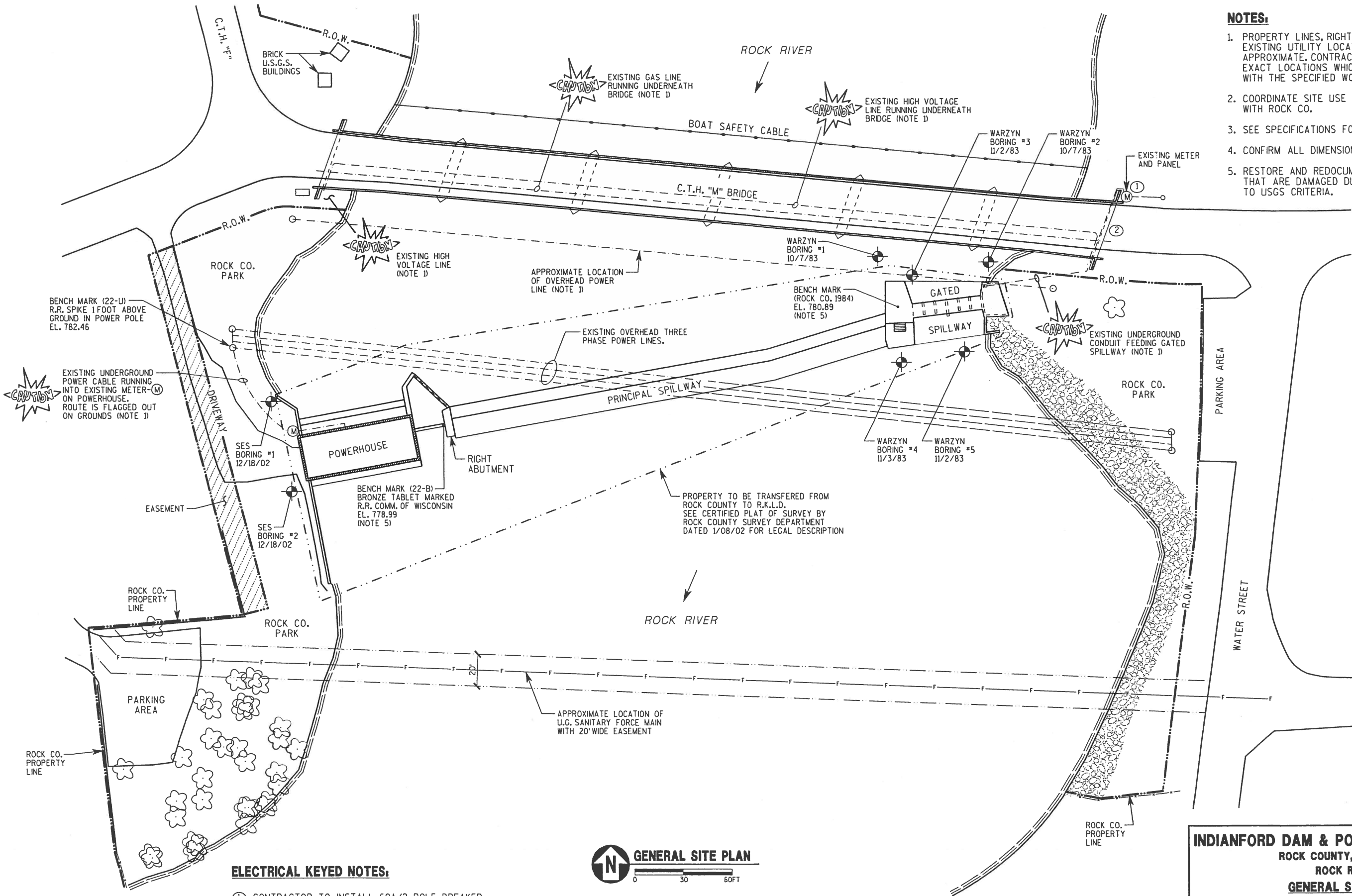

NOTES:

1. PROPERTY LINES, RIGHT OF WAY LINES, AND EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS WHICH MAY INTERFERE WITH THE SPECIFIED WORK.
2. COORDINATE SITE USE PRIOR TO CONSTRUCTION WITH ROCK CO.
3. SEE SPECIFICATIONS FOR SOIL BORING LOGS.
4. CONFIRM ALL DIMENSIONS IN FIELD.
5. RESTORE AND REDOCUMENT ALL BENCH MARKS THAT ARE DAMAGED DURING WORK - CONFORM TO USGS CRITERIA.

ELECTRICAL KEYED NOTES:

(1) CONTRACTOR TO INSTALL 60A/2 POLE BREAKER IN PLACE OF EXISTING 30A/2 POLE BREAKER TO FEED THE GATED SPILLWAY.

(2) CONTRACTOR TO REPLACE EXISTING FEEDER AND FEED WITH 4#4, 2" PVC CONDUIT UNDER BRIDGE FEEDING THE GATED SPILLWAY.

GENERAL SITE PLAN

N

0 30 60FT

INDIANFORD DAM & POWERHOUSE REPAIRS

ROCK COUNTY, WISCONSIN

ROCK RIVER

GENERAL SITE PLAN

NO.	REVISION	DATE
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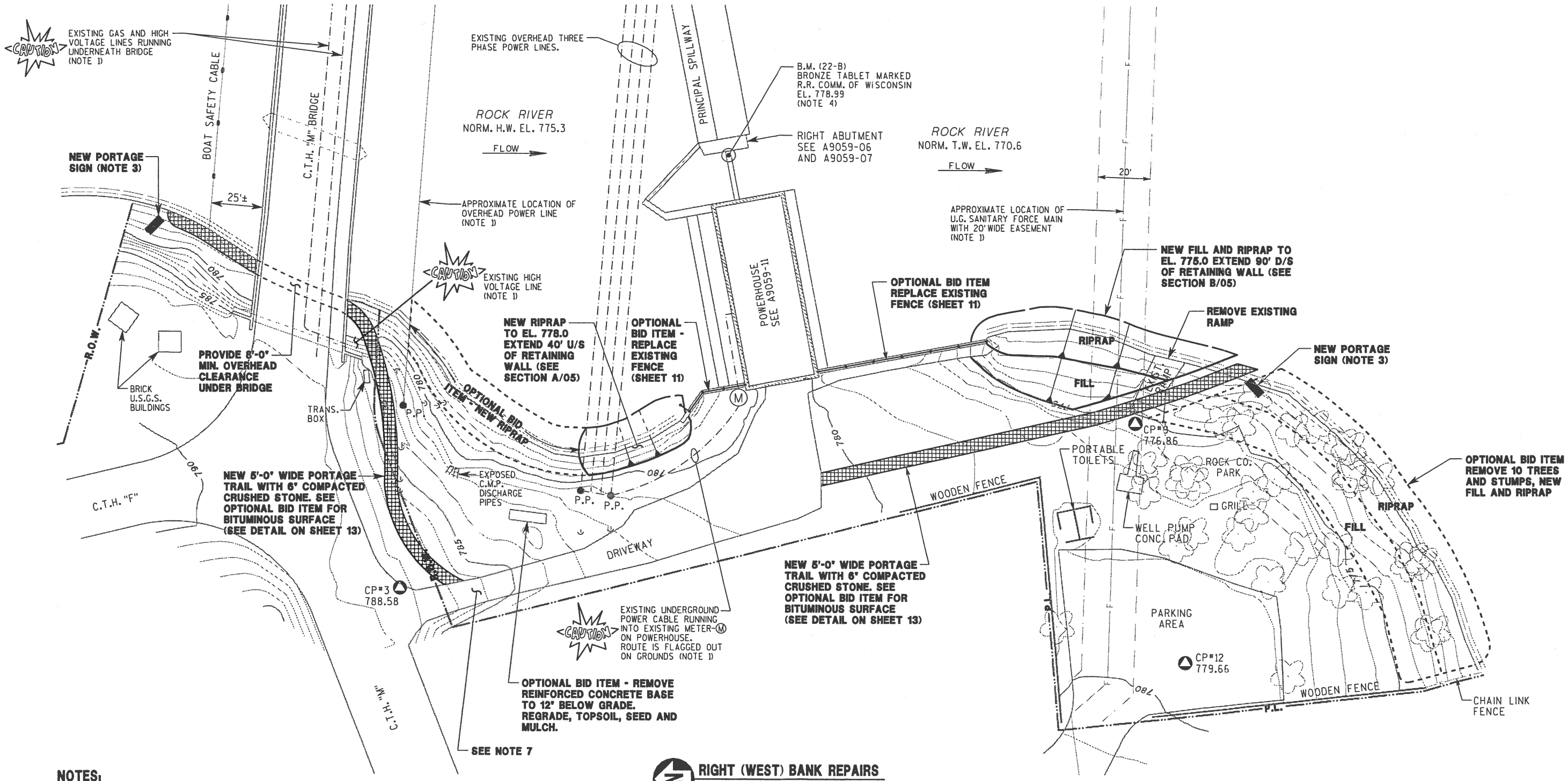

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2. COORDINATE SITE USE PRIOR TO CONSTRUCTION WITH ROCK CO.
3. SIGN DETAILS TO BE PROVIDED BY ROCK CO.
4. RESTORE AND REDOCUMENT ALL BENCH MARKS THAT ARE DAMAGED DURING WORK - CONFORM TO USGS CRITERIA.
5. C.P. = SURVEY CONTROL POINT.
6. EXISTING TREES TO REMAIN.
7. CONTRACTOR SHALL NOT OBSTRUCT DRIVEWAY USAGE BY ADJACENT PROPERTY OWNER.

MEMBER ONE CALL SYSTEMS INTERNATIONAL

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN

CALL DIGGERS HOTLINE
1-800-242-8511
TOLL FREE
FAX A LOCATE 1-800-338-3860
TDD (FOR HEARING IMPAIRED) 1-800-542-2289

WISCONSIN STATUTE 182.0175 (1974) REQUIRES MINIMUM OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

INDIANFORD DAM & POWERHOUSE REPAIRS

ROCK COUNTY, WISCONSIN
ROCK RIVER
RIGHT (WEST) BANK REPAIRS

NO.	REVISION	DATE
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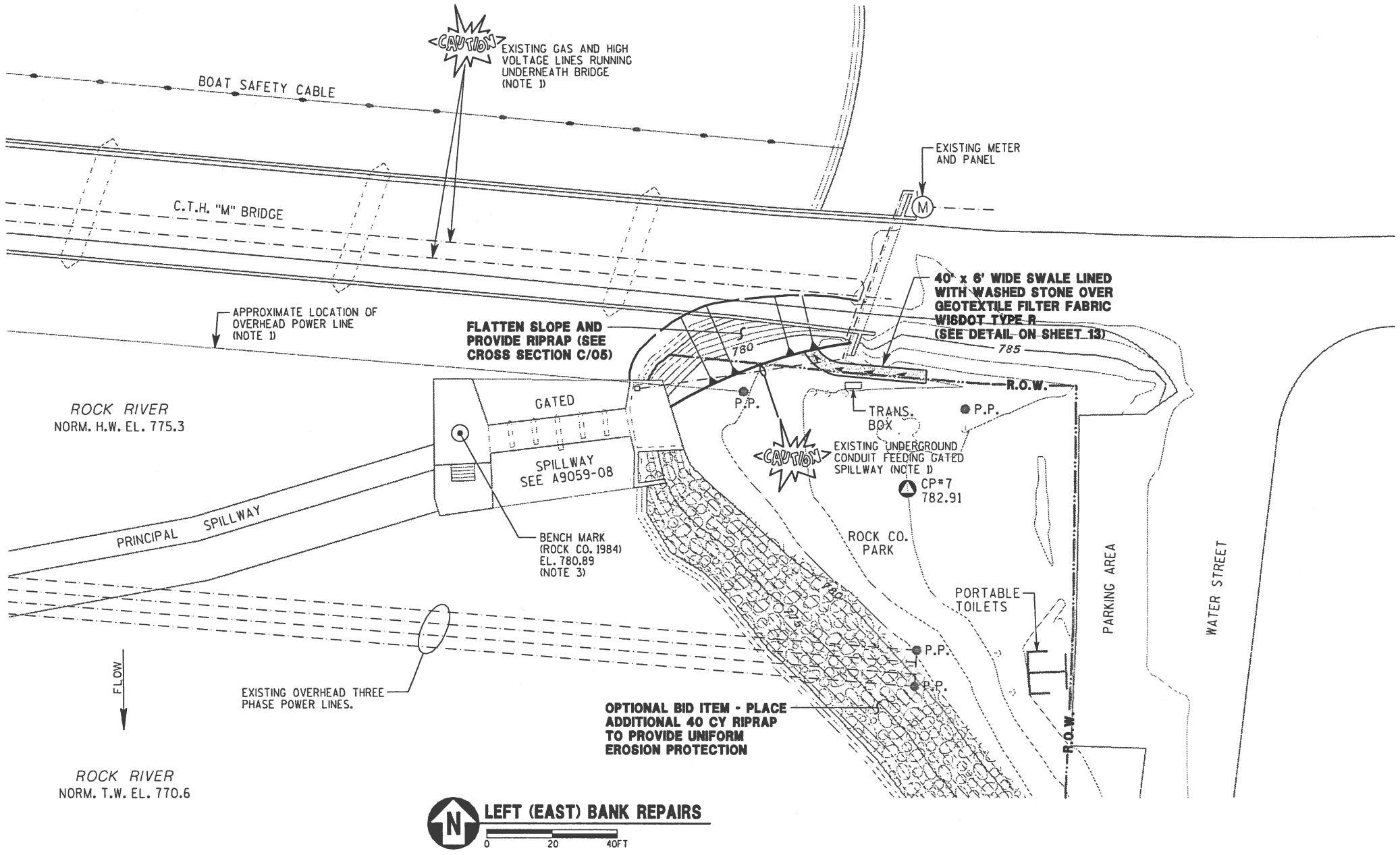

NOTES:

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INDIANFORD DAM & POWERHOUSE REPAIRS

ROCK COUNTY, WISCONSIN

ROCK RIVER

LEFT (EAST) BANK REPAIRS

NO.	REVISION	DATE
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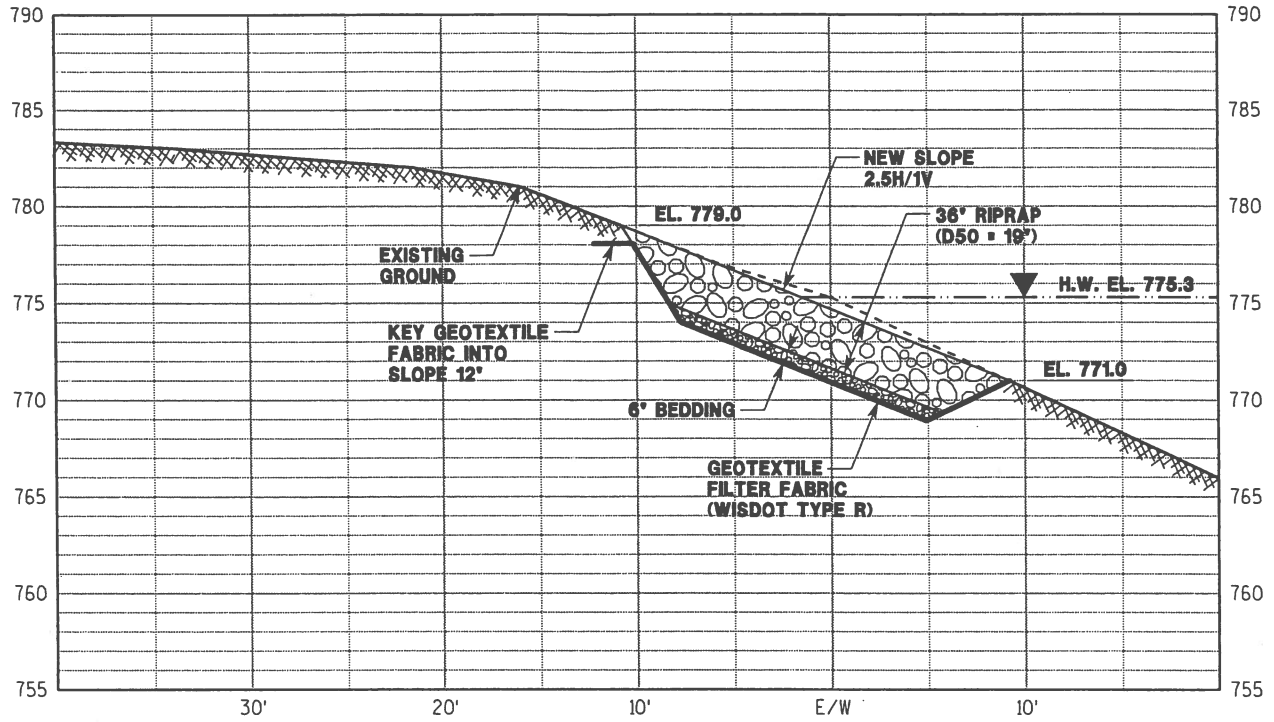
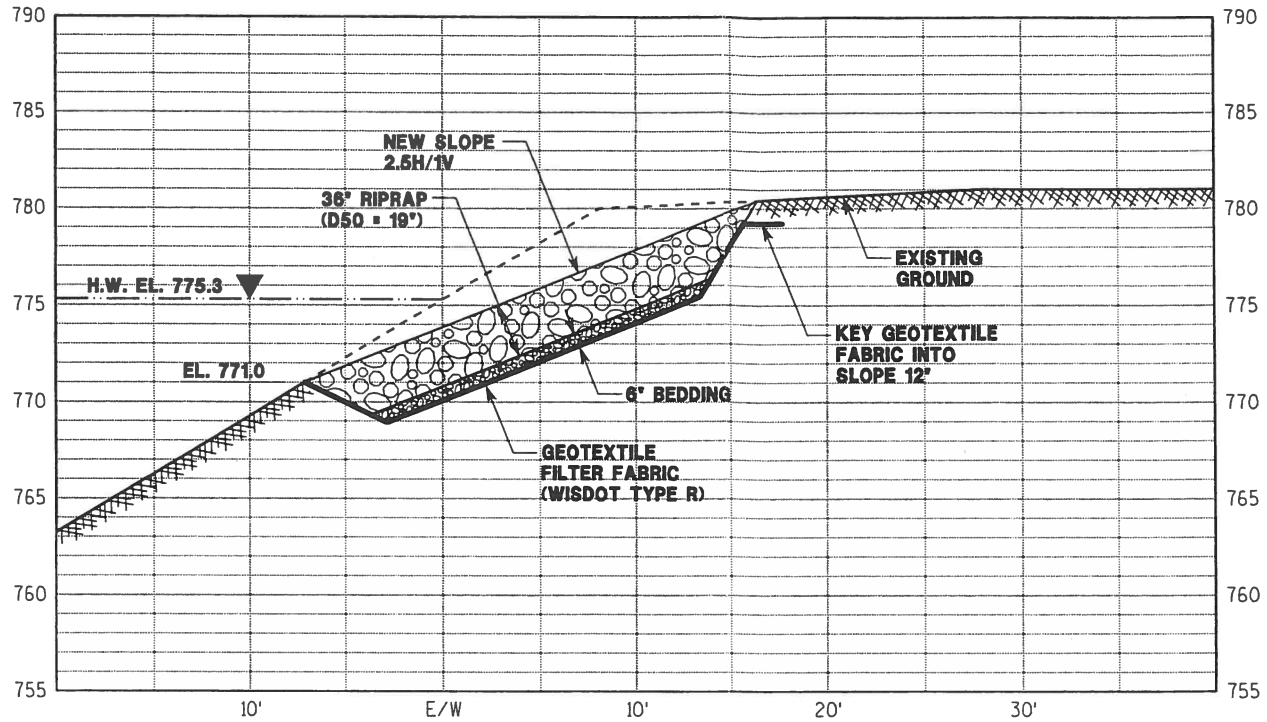


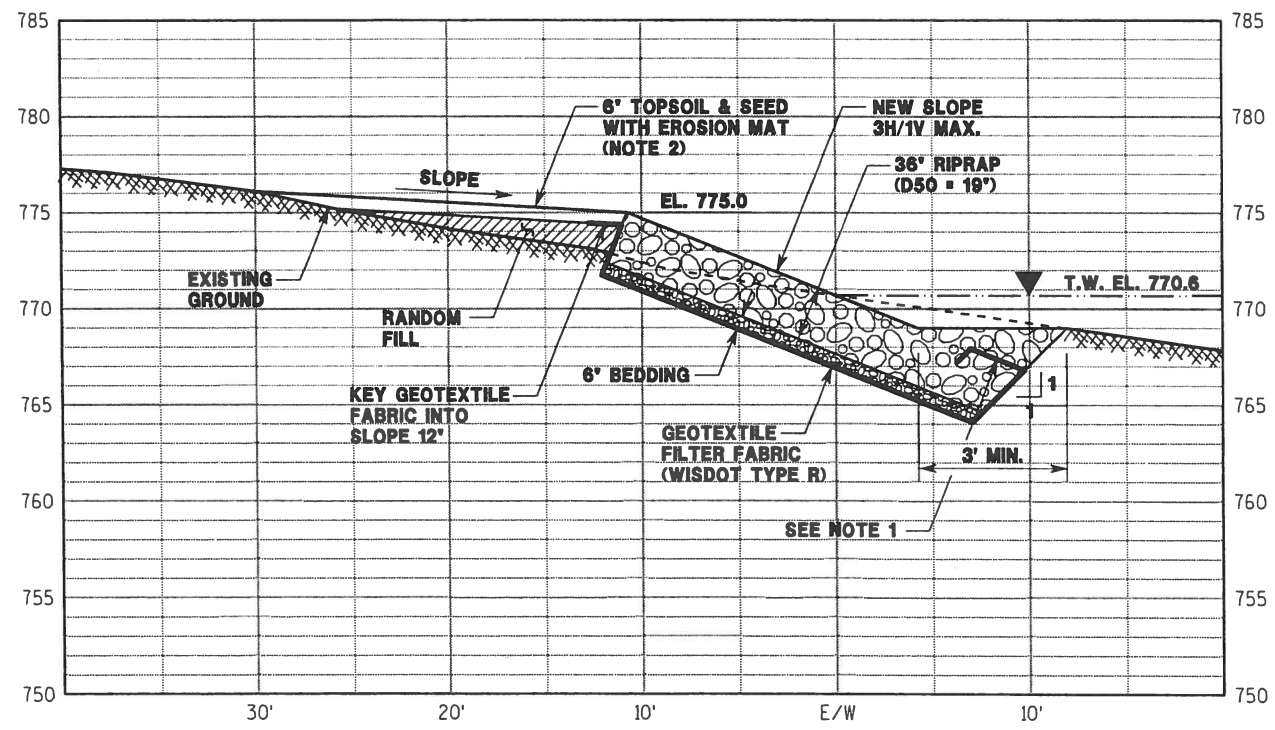
A/05 **WEST BANK CROSS SECTION (U/S)**

0 5 10FT



C/05 **EAST BANK CROSS SECTION (U/S)**

0 5 10FT



B/05 **WEST BANK CROSS SECTION (D/S)**

0 5 10FT

NOTES:

1. WRAP GEOTEXTILE AROUND BASE AND KEY INTO TOE AS SHOWN.
2. USE CLASS I, TYPE "A" EXCELSIOR FIBER EROSION MAT (100% BIODEGRADABLE).
3. RIPRAP: USACE CLASS II - WELL GRADED (D50=19", D15=16", Dmax=28") (W=150-500 lbs.).

INDIANFORD DAM & POWERHOUSE REPAIRS

ROCK COUNTY, WISCONSIN

ROCK RIVER

RIPRAP DETAILS

NO.	REVISION	DATE
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DATE	SCALE	DRAWN/CHECKED	M&H JOB NO.	SHEET NO.
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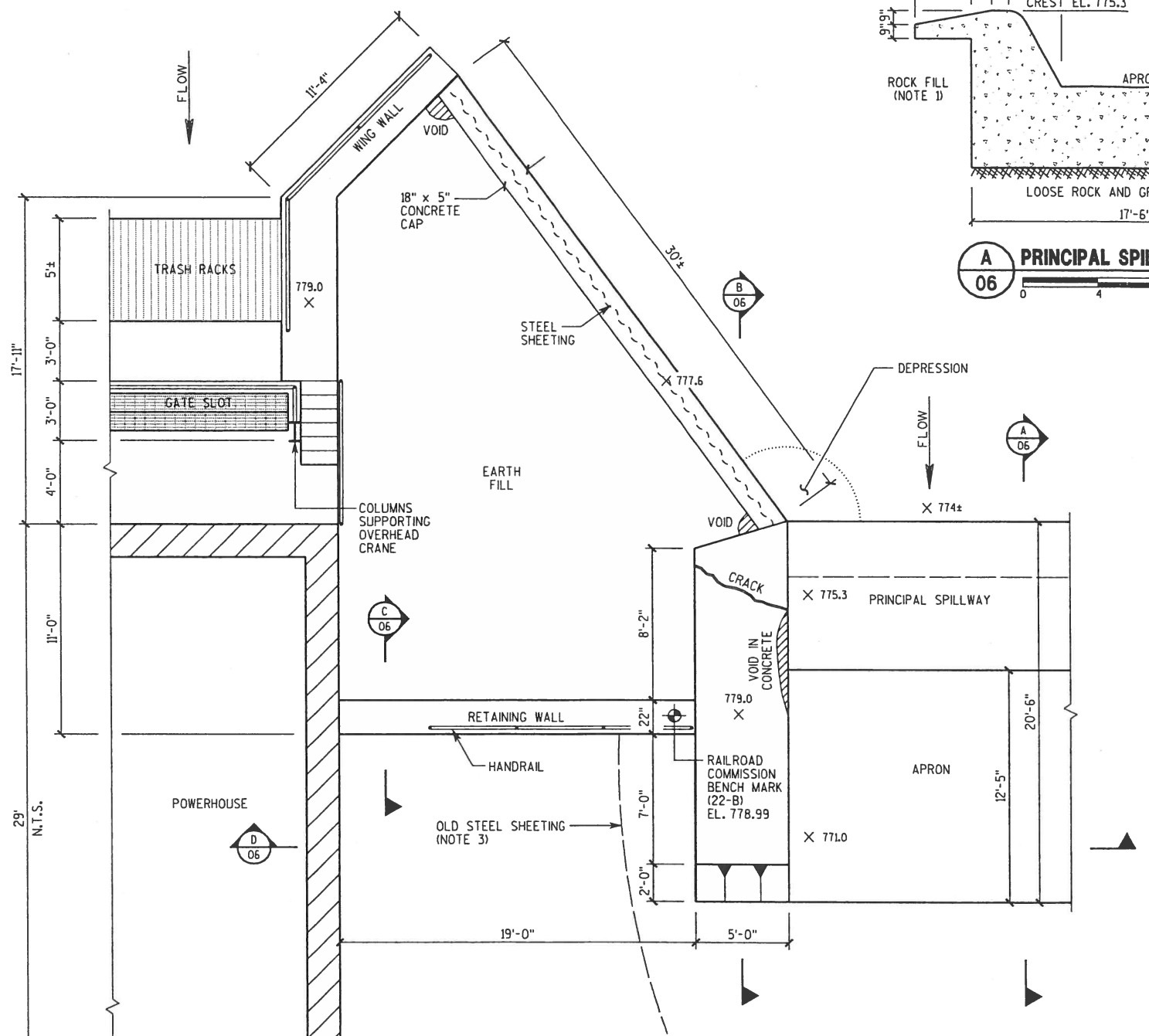
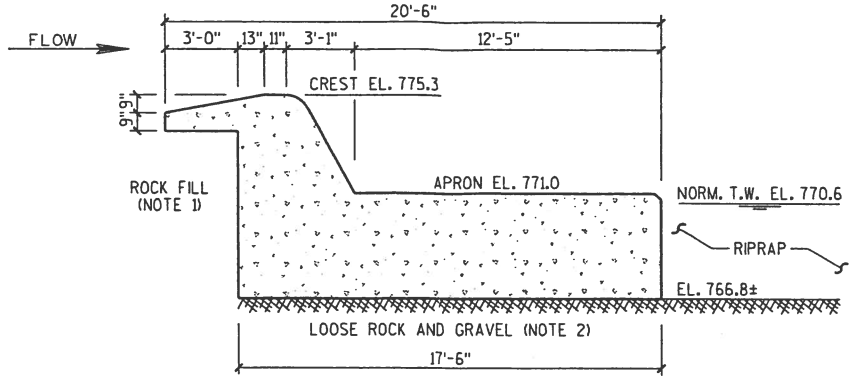


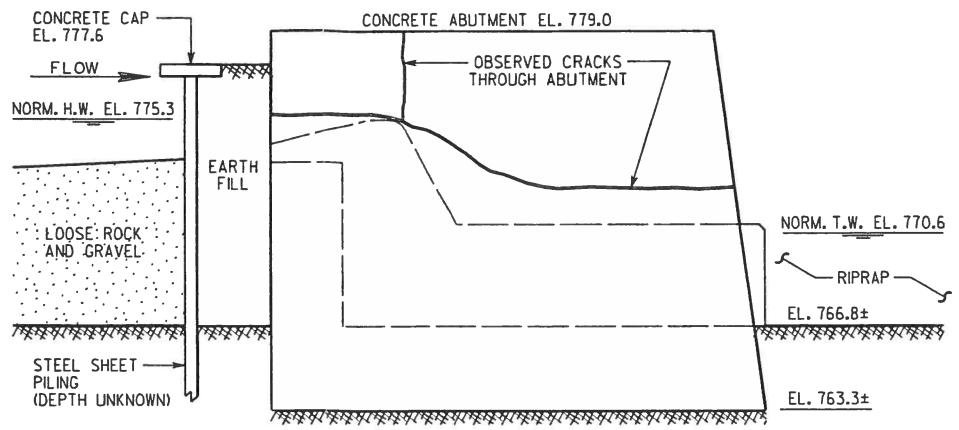
N RIGHT (WEST) SPILLWAY ABUTMENT - EXISTING PLAN

0 4 8FT



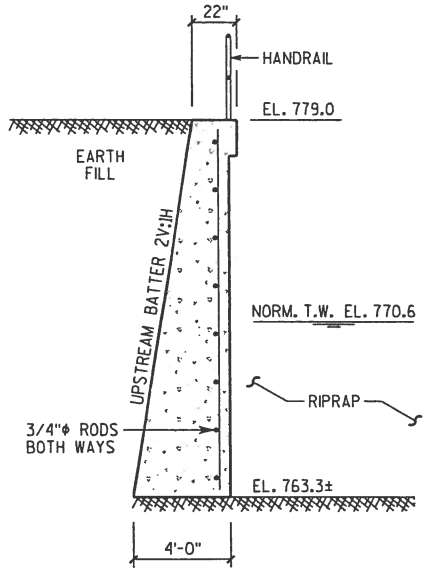
A 06 PRINCIPAL SPILLWAY SECTION

0 4 8FT



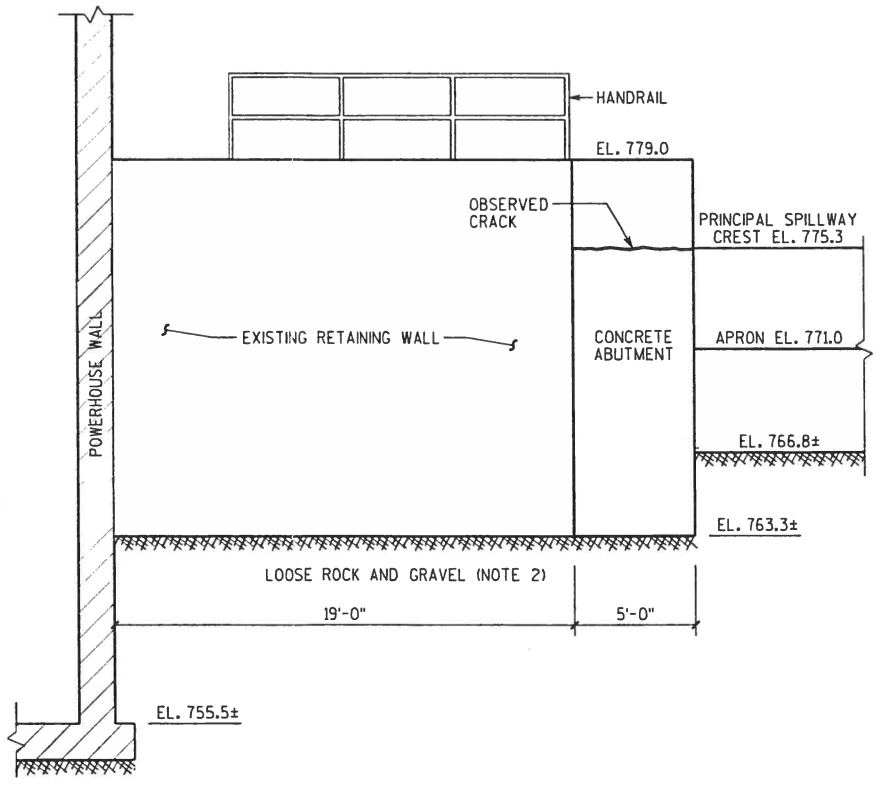
B 06 RIGHT (WEST) SPILLWAY ABUTMENT - EXISTING SECTION

0 4 8FT



C 06 RETAINING WALL SECTION

0 4 8FT



D 06 RIGHT (WEST) SPILLWAY ABUTMENT - EXISTING D/S ELEVATION

0 4 8FT

NOTES:

1. DESCRIBED AS ROCK FILL ON 1931 WP&L DAM RECONSTRUCTION DRAWING.
2. DESCRIBED AS LOOSE ROCK & GRAVEL FOUNDATION ON 1931 WP&L DRAWING.
3. DESCRIBED AS 10' LONG TO ROCK ON 1931 WP&L DRAWING. (APPROXIMATE LOCATION).
4. ALL EXISTING CONCRETE IS ASSUMED TO BE REINFORCED WITH STEEL BARS.

INDIANFORD DAM & POWERHOUSE REPAIRS

ROCK COUNTY, WISCONSIN

ROCK RIVER

RIGHT (WEST) SPILLWAY ABUTMENT - EXISTING

NO.	REVISION	DATE
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6501 Watts Road, Madison, Wisconsin 53719-2700
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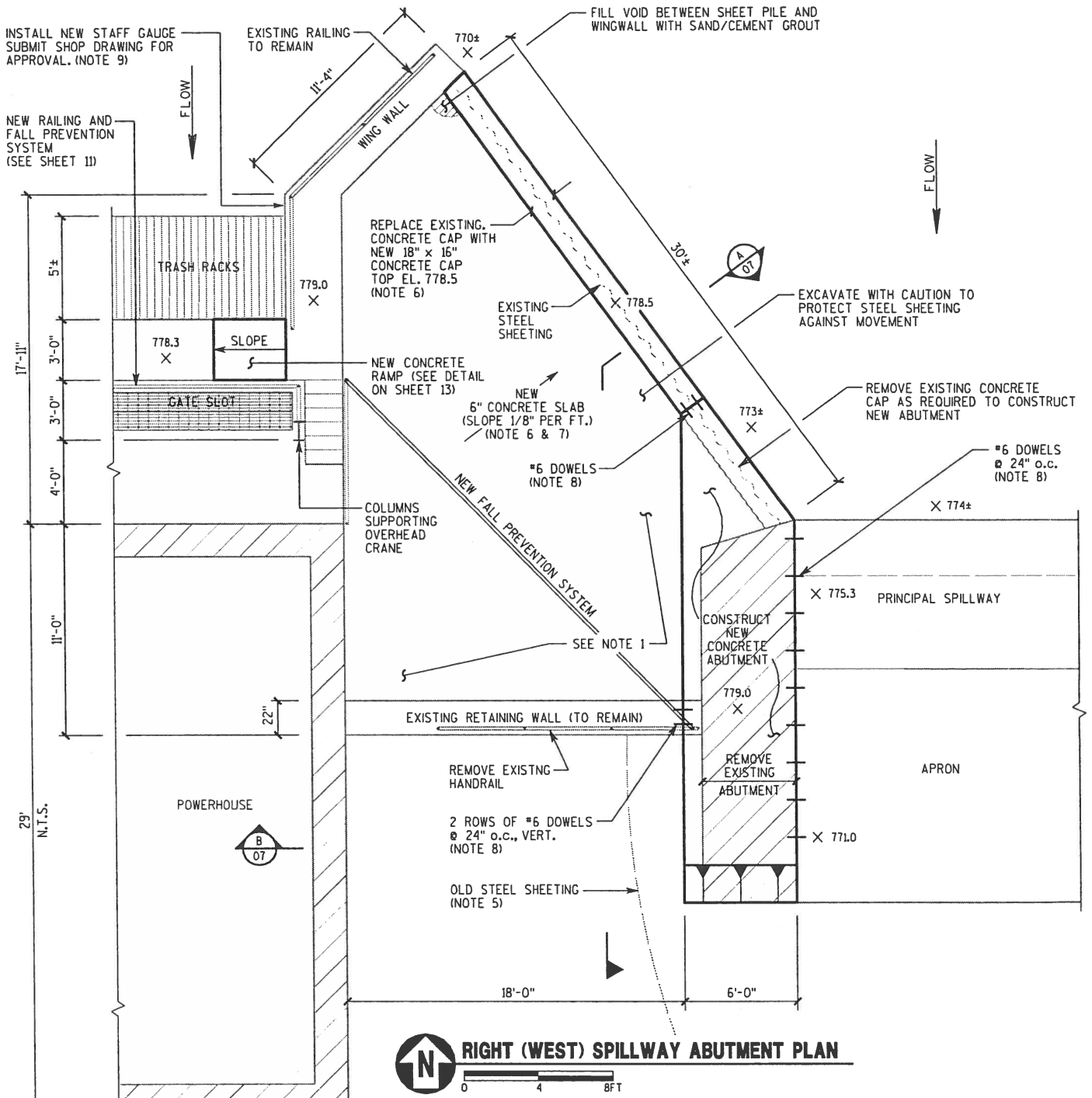
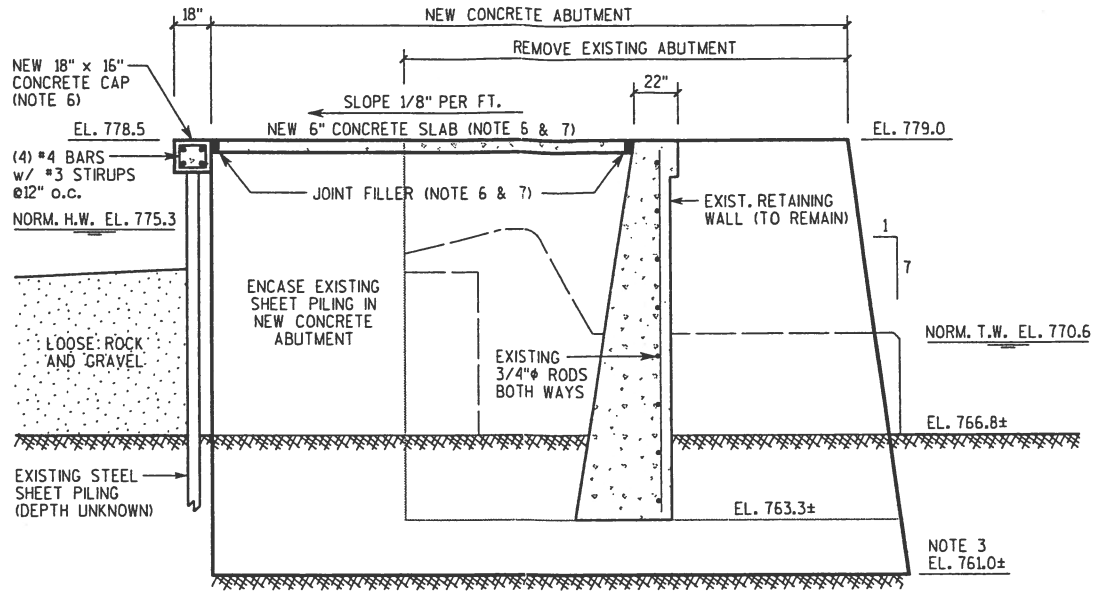


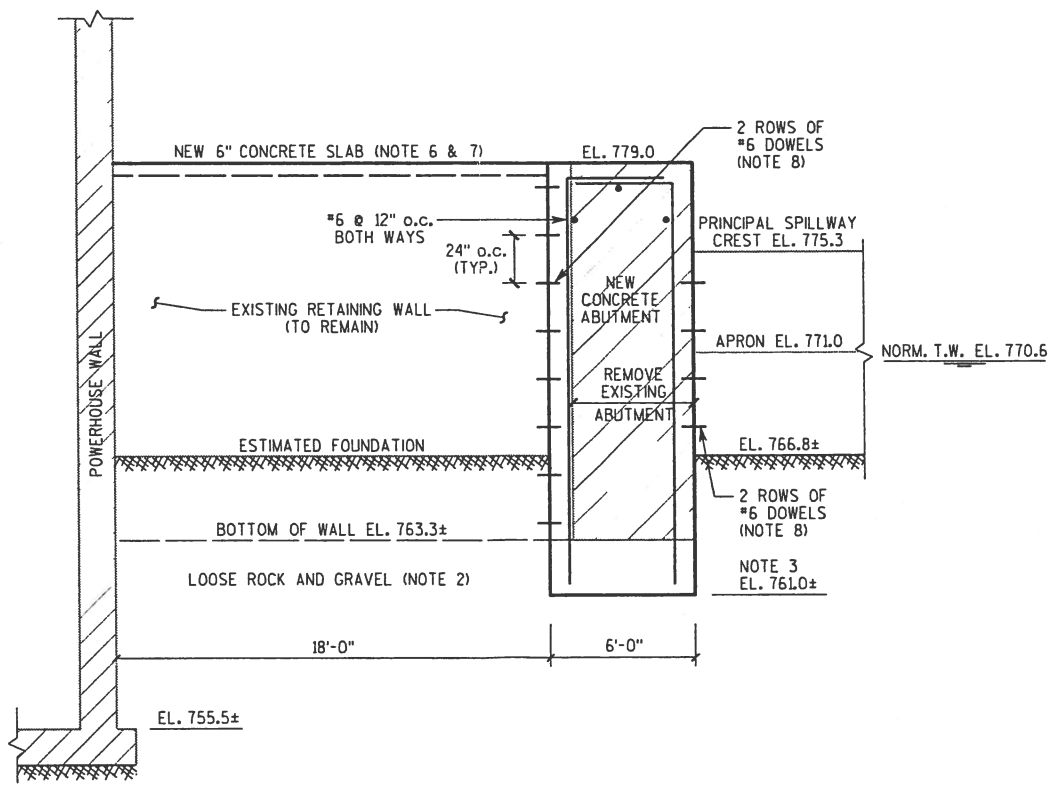
N RIGHT (WEST) SPILLWAY ABUTMENT PLAN

0 4 8FT



A/07 RIGHT (WEST) SPILLWAY ABUTMENT SECTION

0 4 8FT



B/07 RIGHT (WEST) SPILLWAY ABUTMENT D/S ELEVATION

0 4 8FT

NOTES:

1. REMOVE FILL BEHIND EXISTING RETAINING WALL AND ABUTMENT PRIOR TO THE REMOVAL AND REPLACEMENT OF ABUTMENT. BACKFILL WITH RANDOM FILL.
2. DESCRIBED AS LOOSE ROCK & GRAVEL FOUNDATION ON 1931 WP&L DRAWINGS.
3. NEW ABUTMENT FOUNDATION ELEVATION IS SUBJECT TO CHANGE IN FIELD BASED ON SOUNDNESS OF ROCK AS DETERMINED BY CONSTRUCTION REPRESENTATIVE.
4. SEE SHEET A9059-14 FOR COFFERDAM LOCATIONS DESIGN BY CONTRACTOR.
5. DESCRIBED AS 10' LONG TO ROCK ON 1931 WP&L DRAWING. (APPROXIMATE LOCATION).
6. OPTIONAL BID ITEM.
7. PROVIDE 6" CONCRETE SLAB REINFORCED WITH W10xW10 BARS 6" o.c. BOTH WAYS. PLACE 1/2" COMPRESSIBLE JOINT FILLER AROUND EDGES.
8. TYP. DOWEL 12" MIN. EPOXY GROUTED INTO EXISTING CONCRETE, 30" MIN EMBEDMENT INTO NEW CONCRETE.
9. STAFF GAUGE TO CONSIST OF 3.5 INCH WIDE 18 GAGE STEEL WITH BAKED ON PORCELAIN ENAMEL SURFACE. MARKINGS SHALL BE BLACK ON WHITE GRADUATED IN 0.1 FOOT INCREMENTS. LABEL ELEVATION 774.0, 775.0 AND 776.0 ON 2" x 3" FIGURE PLATES. MOUNT GAUGE AND FIGURE PLATES ON VERTICAL 2 x 12 TREATED TIMBER BOLTED TO CONCRETE WING WALL.

INDIANFORD DAM & POWERHOUSE REPAIRS

ROCK COUNTY, WISCONSIN

ROCK RIVER

RIGHT (WEST) SPILLWAY ABUTMENT - REPAIRS

NO.	REVISION	DATE
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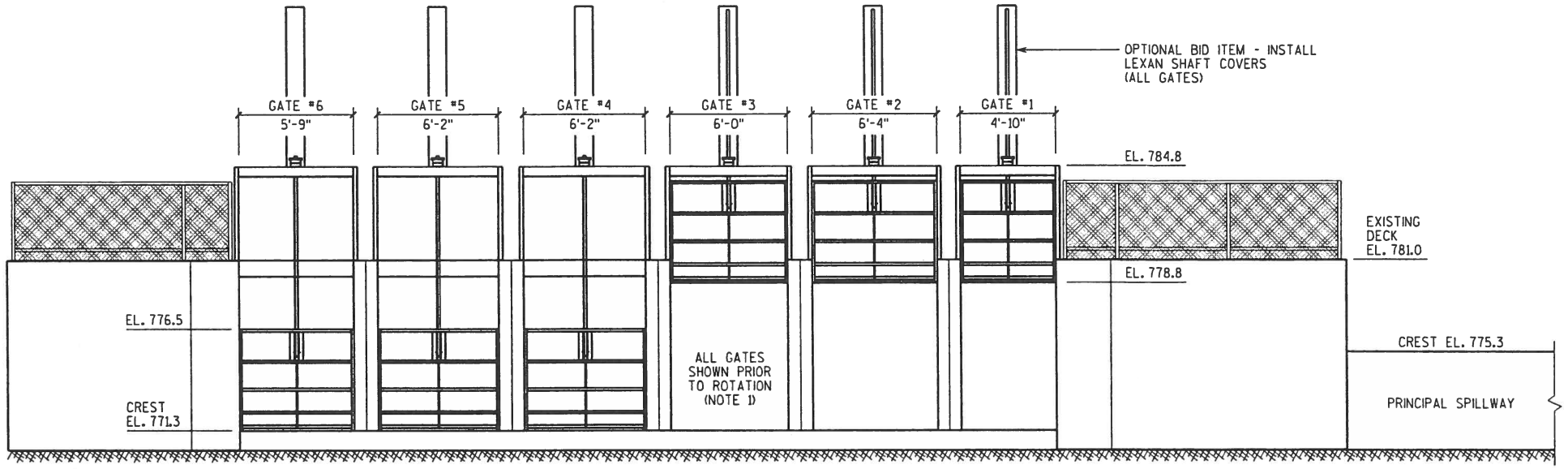
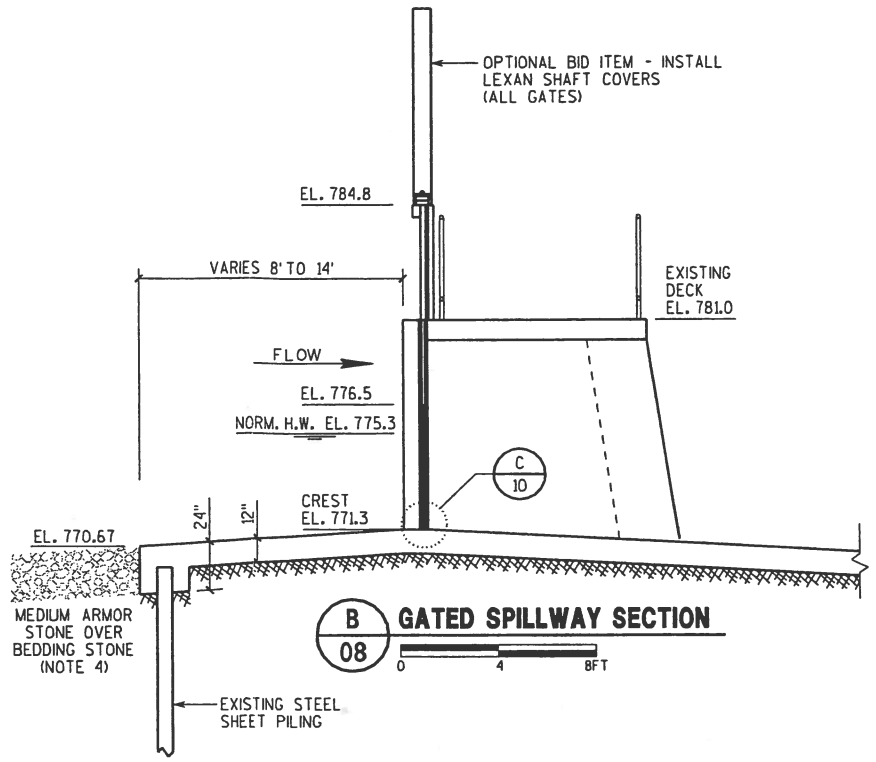
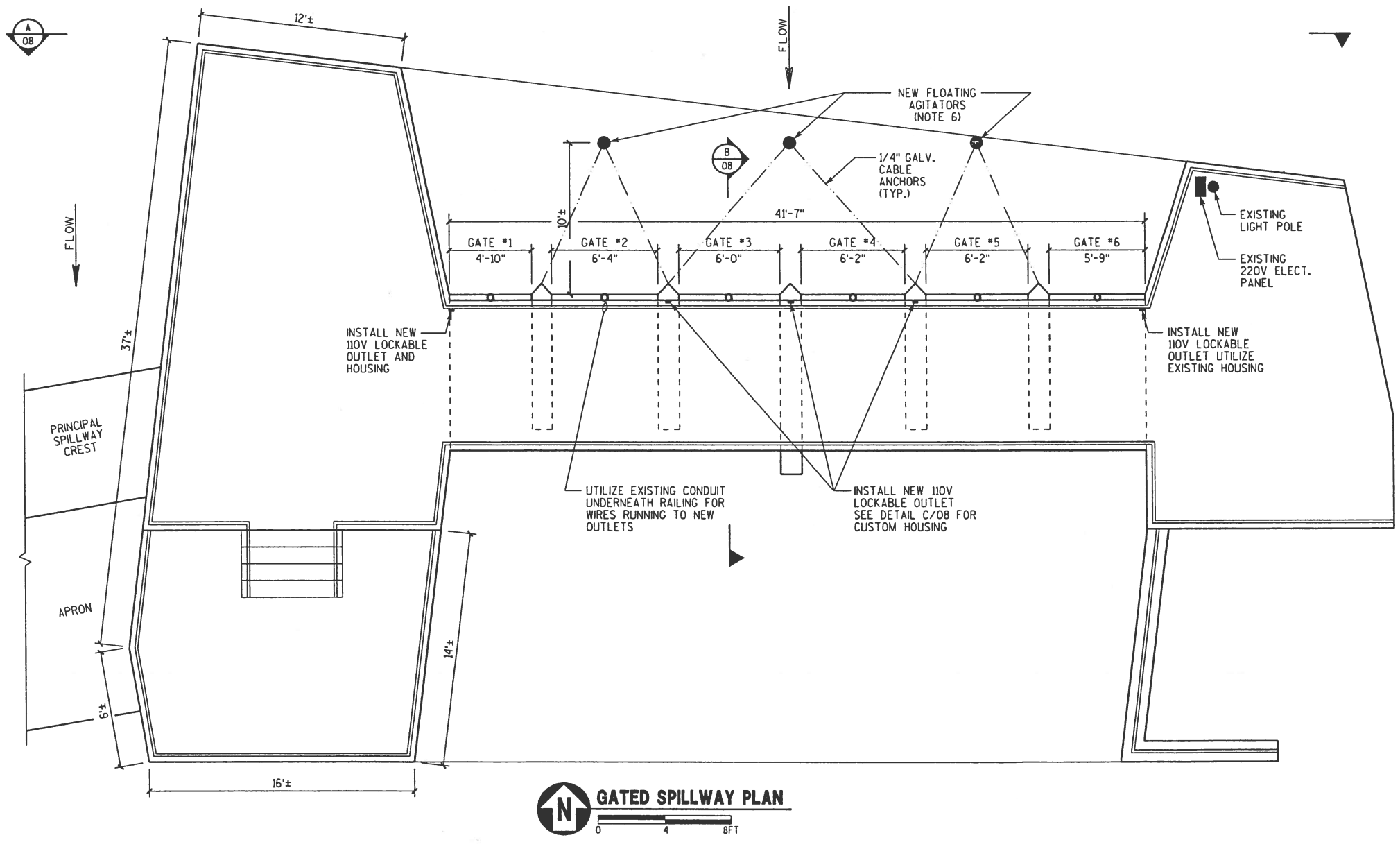


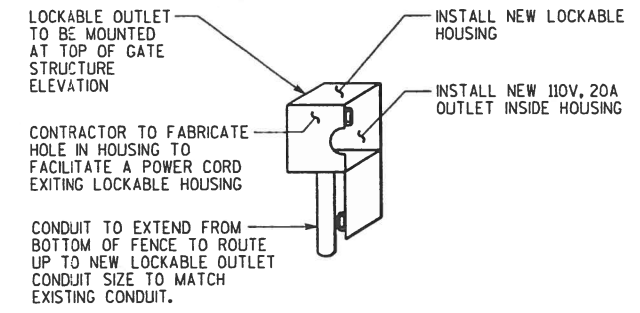
A/08 **GATED SPILLWAY UPSTREAM ELEVATION**
0 4 8FT



B/08 **GATED SPILLWAY SECTION**
0 4 8FT



N **GATED SPILLWAY PLAN**
0 4 8FT



C/08 **LOCKABLE OUTLET DETAIL**
NOT TO SCALE

NOTES:

1. ROTATE GATES 180°
2. REPAIR SLIDE GATES AND GUIDES AS SHOWN ON DRAWING A9059-10.
3. PATCH REPAIR BROKEN AND SPALLED CONCRETE. (LOCATIONS TO BE DETERMINED BY CONSTRUCTION REPRESENTATIVE). FOR BIDDING PURPOSES ASSUME 30 S.F. (SEE DETAILS ON SHEET 13).
4. AS DESCRIBED ON WARZYN ENGINEERING CO. DRAWING DATED 6/22/84.
5. CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS.
6. FLOATING WATER AGITATORS (DE-ICERS) TO BE 120V, 3/4 H.P. WITH TEMP. CONTROL. PRODUCTS TO BE MANUFACTURED BY KASCO OR EQUAL. SUBMIT PRODUCT LITERATURE FOR APPROVAL BY CONSTRUCTION REPRESENATIVE. (PROVIDE 4, INSTALL 3)

INDIANFORD DAM & POWERHOUSE REPAIRS

ROCK COUNTY, WISCONSIN

ROCK RIVER

GATED SPILLWAY PLAN, ELEVATION AND SECTION

NO.	REVISION	DATE
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INDIANFORD DAM & POWERHOUSE REPAIRS
ROCK COUNTY, WISCONSIN
ROCK RIVER
SLIDE GATES - EXISTING

NO.	REVISION	DATE
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MEAD & HUNT
ENGINEERS
ARCHITECTS
SCIENTISTS
PLANNERS
6501 Watts Road, Madison, Wisconsin 53719-2100
Phone: 608-273-6380 Fax: 608-273-6391

DATE	SCALE	DRAWN/CHECKED	M&H JOB NO.	SHEET NO.
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A/09 EXISTING GATE UPSTREAM ELEVATION (TYP.)

0 6" 12"

CREST EL. 771.3

UNKNOWN ANGLE

3" x 1/2" PLATE

4" x 1-1/2" x 3/8" CHANNEL

3" x 1/2" PLATE

4" x 1-1/2" x 3/8" CHANNEL

3" x 1/2" PLATE

1-1/2" x 1-1/2" x 1/4" ANGLE

1-1/2" x 1-1/2" x 1/4" ANGLE

4" x 1-1/2" x 3/8" CHANNEL

3" x 3" x 1/4" ANGLES

1-3/4" DIA. TUBE

4" x 1-1/2" x 3/8" CHANNEL

TOP OF GATE EL. 776.5

PIER WIDTH VARIES
1'-2 1/4" TO 1'-3 3/8"

GATE WIDTH VARIES
SEE DRAWING A9059-08

PIER WIDTH VARIES
1'-2 1/4" TO 1'-3 3/8"

N EXISTING GATE PLAN (TYP.)

0 6" 12"

B/09 EXISTING DETAIL

A/10 MODIFICATION DETAIL

FLOW

A/09

B/09 EXISTING GATE DETAIL

NOT TO SCALE

3" x 2-1/2" x 3/8" ANGLE

2-1/2" MAX. DEPTH

3/8" THICK SKIN PLATE

3" x 2-1/2" x 3/8" ANGLE

4" x 1-1/2" x 3/8" CHANNEL

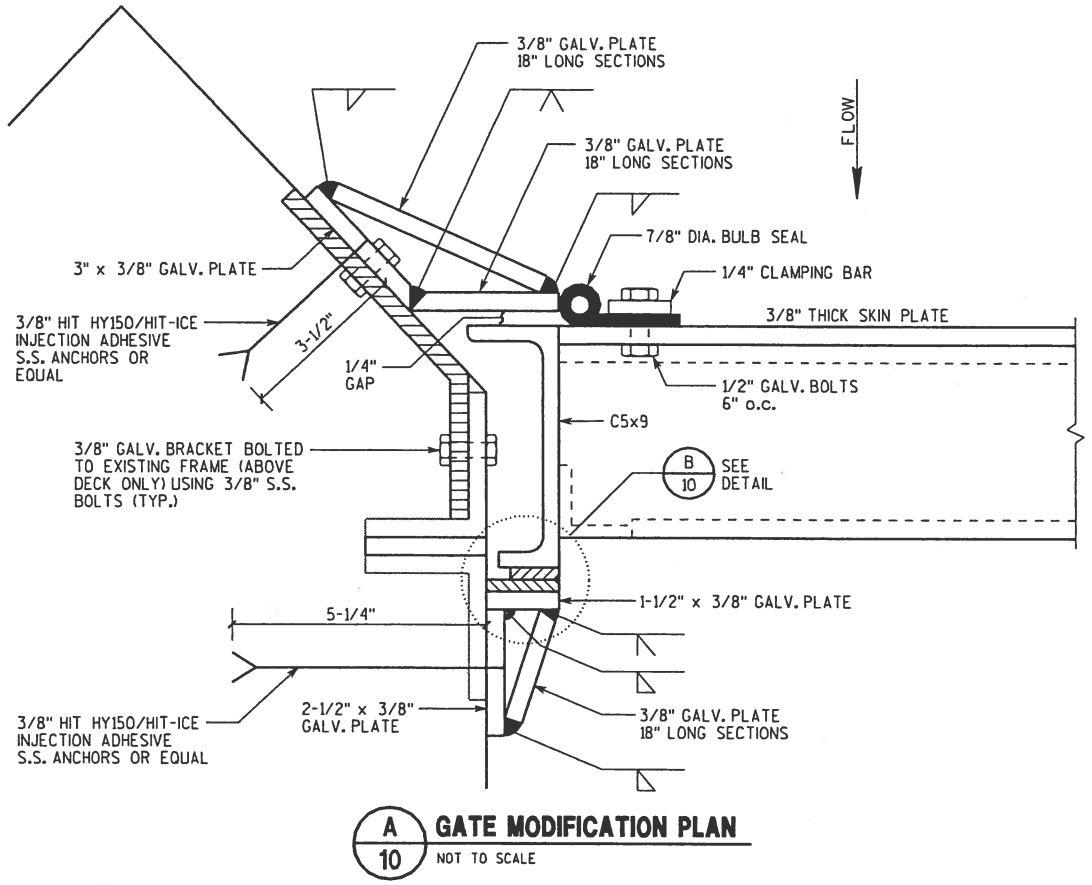
2-1/4"±

4-3/8"

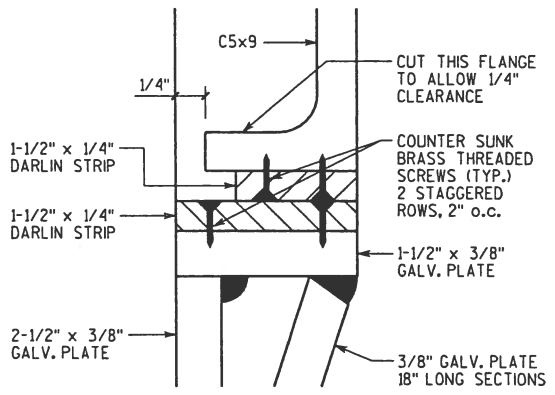
1"±

1-1/2" x 1-1/2" x 1/4" ANGLE

FLOW



A 10 GATE MODIFICATION PLAN
NOT TO SCALE



B 10 GATE MODIFICATION DETAIL
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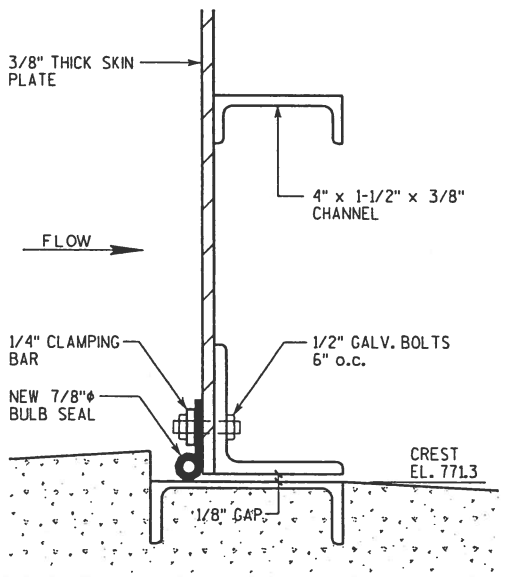
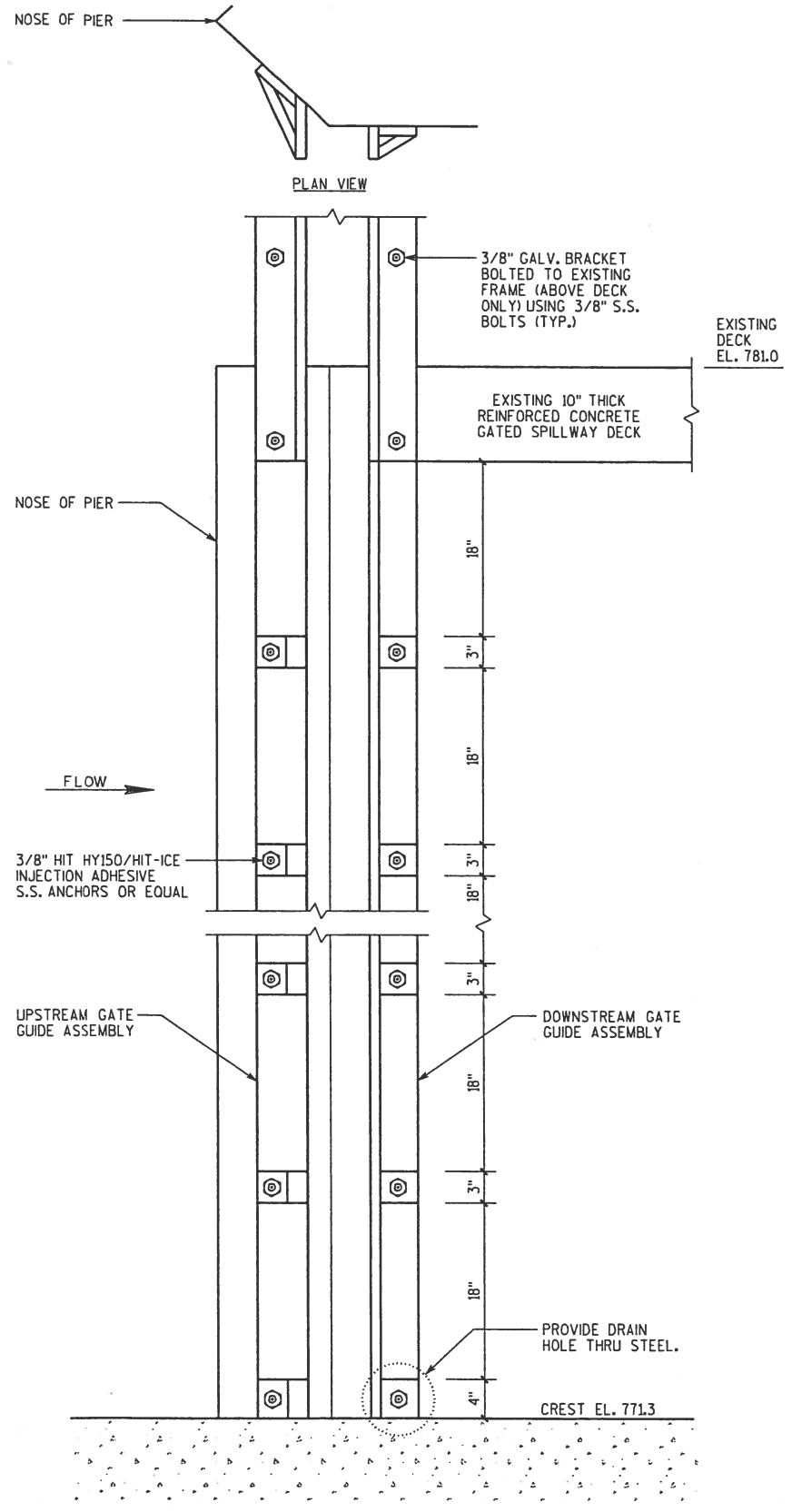


C 10 BOTTOM GATE SEAL DETAIL
NOT TO SCALE



D 10 GATE GUIDE MOUNTING DETAIL
NOT TO SCALE

GATE REPAIR NOTES:

1. REMOVE GATES AND ROTATE 180°.
2. CUT OFF GATES SQUARE AT VERTICAL ANGLES.
3. WELD CHANNEL TO BOTH SIDES OF GATES FLUSH WITH SKIN PLATE.
4. TRIM CHANNEL FLANGES TO REQUIRED FIT.
5. ANCHOR PREFABRICATED GATE GUIDES. (REPAIR CONCRETE AS NEEDED).
6. INSTALL ROTATED GATES.
7. BOTTOM AND SIDE SEALS TO BE CONTINUOUS.
8. CLEAN AND PAINT SLIDE GATES AND ASSOCIATED METAL PARTS THAT ARE NOT STAINLESS STEEL.

INDIANFORD DAM & POWERHOUSE REPAIRS

ROCK COUNTY, WISCONSIN

ROCK RIVER

SLIDE GATES - MODIFICATIONS

NO.	REVISION	DATE
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-	-	-
-	-	-
-	-	-

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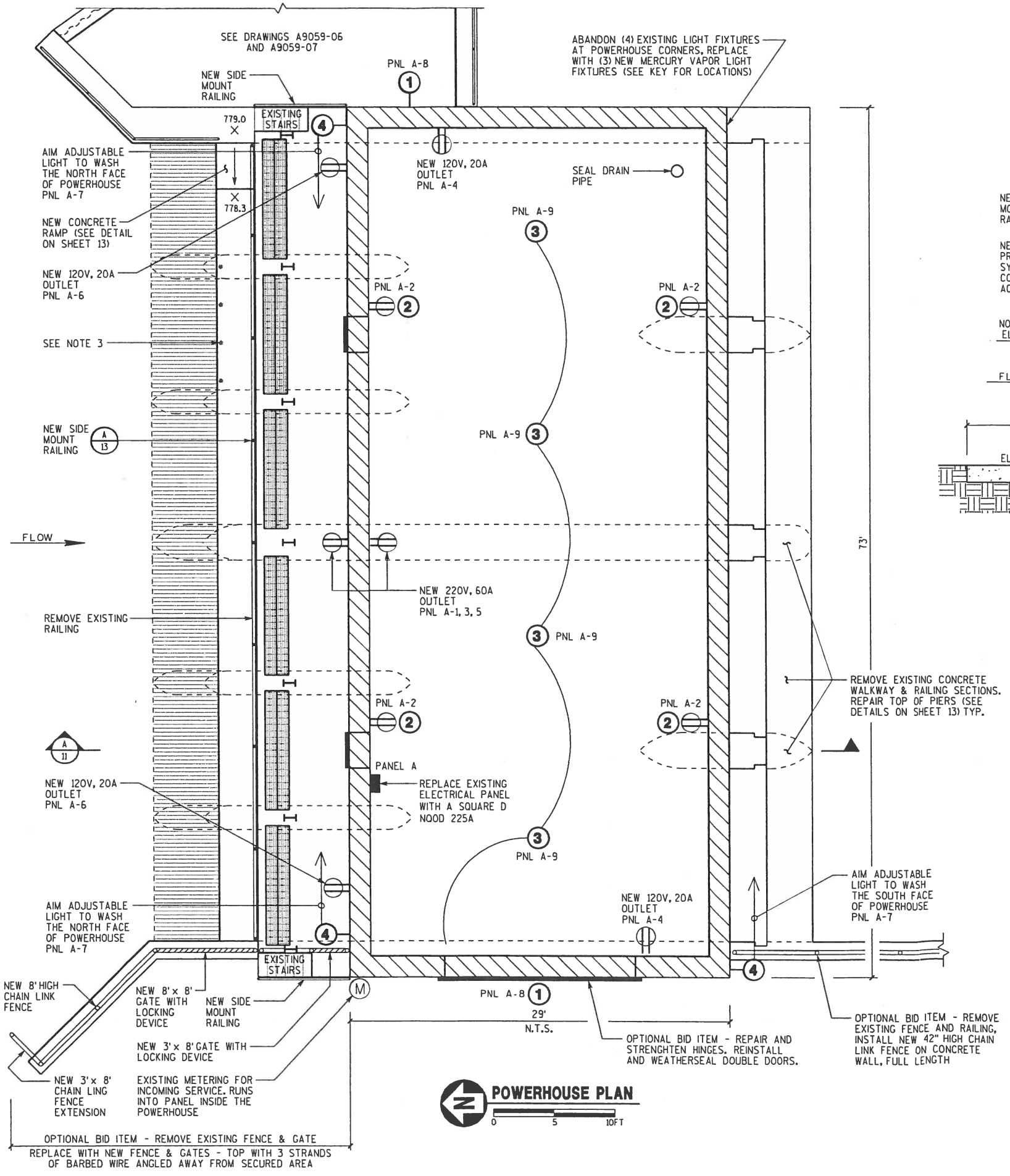

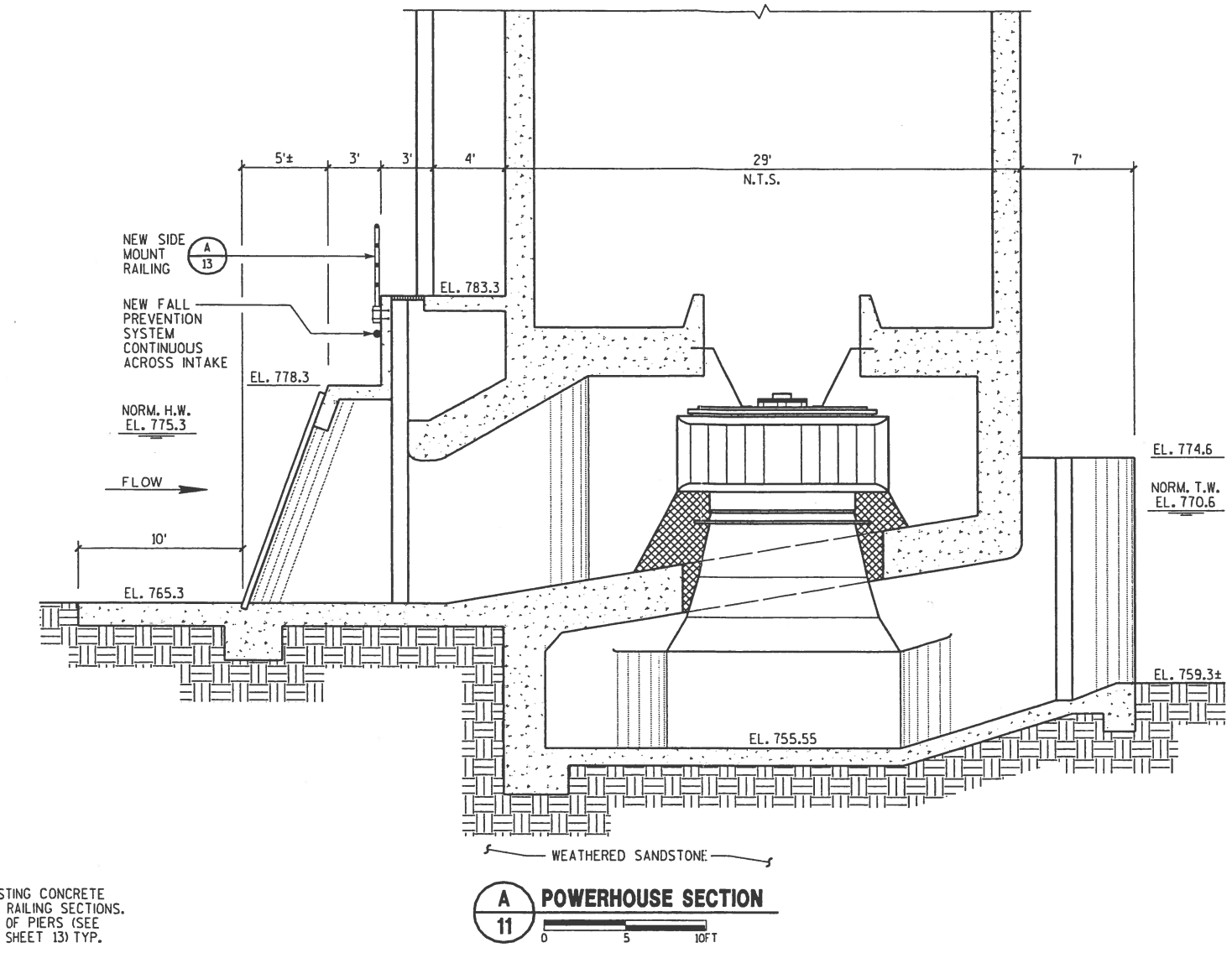

KEY:

1. 100 WATT WALL PACK
   LUMARK WYWALLY SERIES LIGHT *HP-WY-PL-100-120-LL-TR
   MOUNTED 2'-0" ABOVE DOOR
2. REPLACE EXISTING OUTLET
3. 400W HIGH BAY METAL HALIDE
   LUMARK LX SERIES LIGHT *MH-LX-PD-25-400-MT
   LAMP TO BE CEILING MOUNTED 20'-0" ABOVE FINISHED FLOOR
4. 150 WATT ADJUSTABLE WALL PACK FLOOD LIGHT
   LUMARK WXWARRIOR SERIES LIGHT
   *HP-WR-65-S-150-120-VG/WR-LL-RAB
   MOUNTING HEIGHT 14'-0" ABOVE FINISHED GRADE

NOTES:

1. ALL EXISTING INTERIOR AND EXTERIOR LIGHTING AT POWERHOUSE TO BE REMOVED AND REPLACED. ALL REMOVED MATERIAL TO BE HANDED OVER TO THE OWNER.
2. PATCH REPAIR BROKEN AND SPALLED CONCRETE. (LOCATIONS TO BE DETERMINED BY CONSTRUCTION REPRESENTATIVE). FOR BID PURPOSES ASSUME 40 S.F. (SEE DETAILS ON SHEET 13).
3. CUT ALL REMNANTS OF PIPE RAILING FLUSH WITH CONCRETE. CLEAN & FILL HOLES WITH NON-SHRINK GROUT.
4. ALL 120V OUTLETS TO BE GFI. ALL 220V OUTLETS TO HAVE GFI BREAKERS.

INDIANFORD DAM & POWERHOUSE REPAIRS

ROCK COUNTY, WISCONSIN

ROCK RIVER

POWERHOUSE PLAN AND SECTION

NO.	REVISION	DATE
-	-	-
-	-	-
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-	-	-
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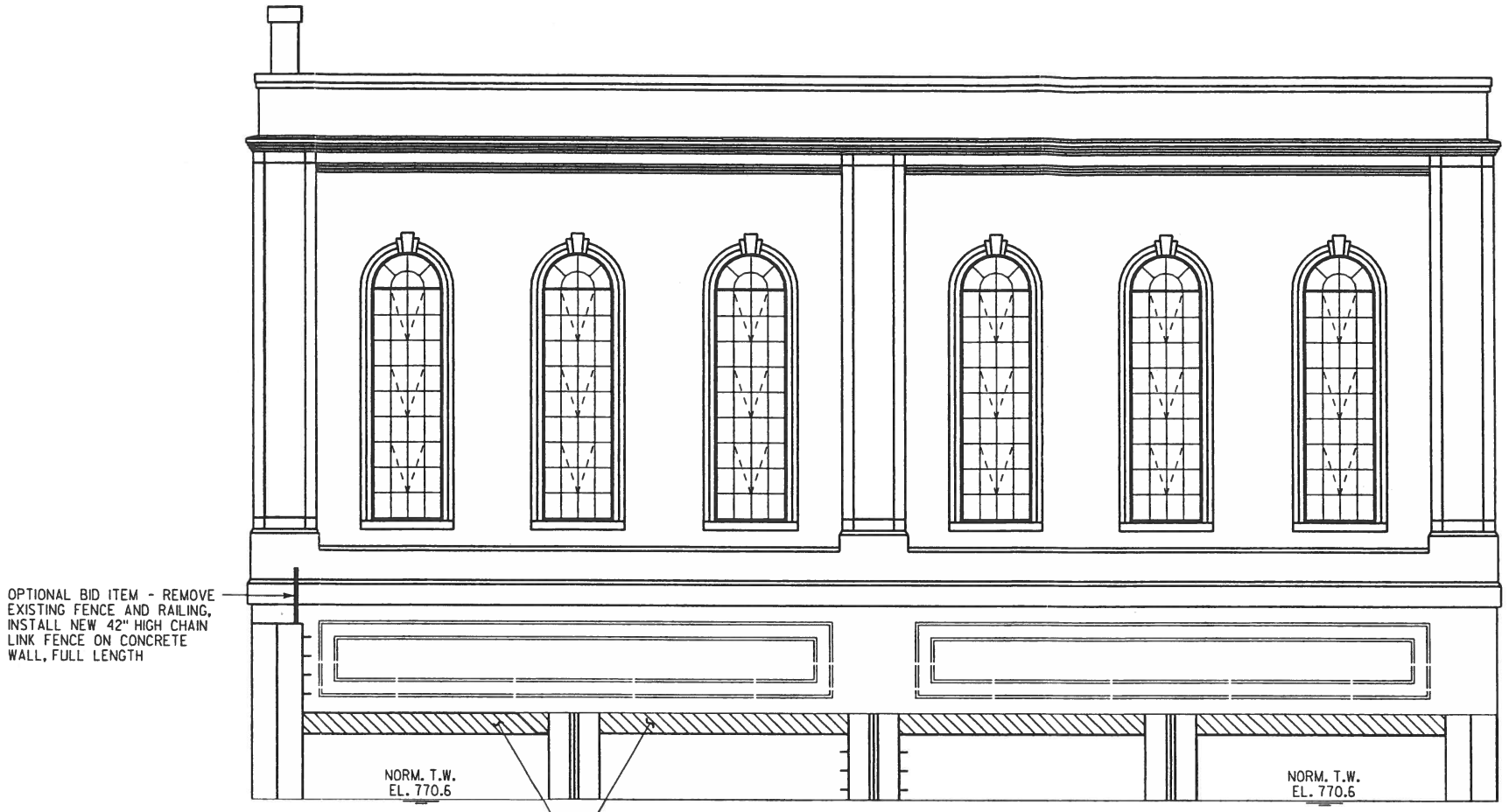
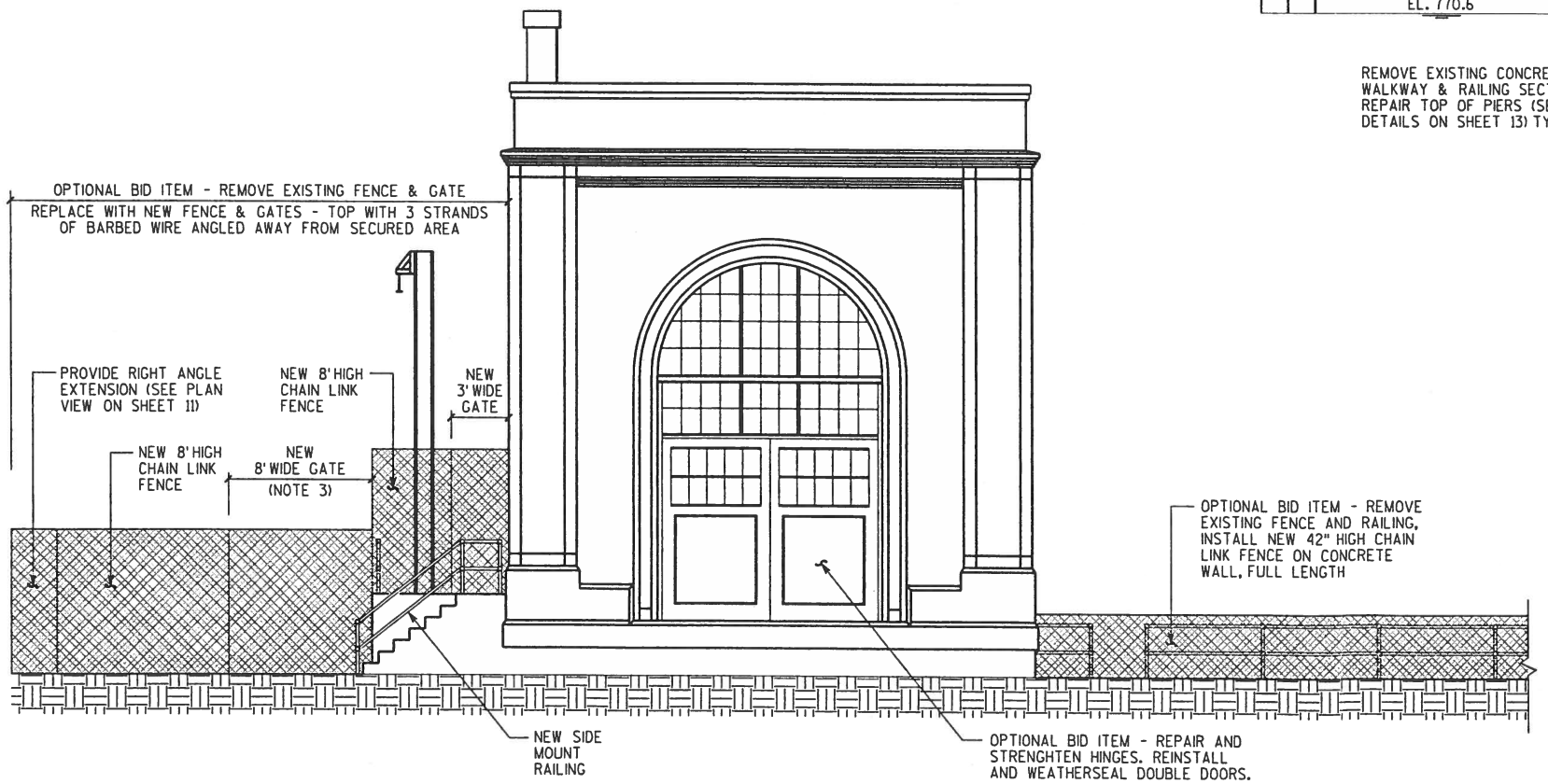


A 12 **POWERHOUSE DOWNSTREAM ELEVATION**

0 5 10FT



B 12 **POWERHOUSE WEST ELEVATION**

0 5 10FT

NOTES:

1. ALL NEW FENCE (OPTIONAL BID ITEM) TO BE NON-CLIMBABLE CHAIN LINK GALVANIZED.
2. PATCH REPAIR BROKEN AND SPALLED CONCRETE. (LOCATIONS TO BE DETERMINED BY CONSTRUCTION REPRESENTATIVE). FOR BID PURPOSES ASSUME 40 S.F. (SEE DETAILS ON SHEET 13).
3. PROVIDE LOCKING DEVICE FOR ALL (OPTIONAL BID ITEM) GATES.
4. REPLACE ALL CRACKED OR MISSING WINDOW PANES. FOR BID PURPOSES ASSUME __ PANES REQUIRE REPLACEMENT AND NO OTHER GLAZING REPAIRS ARE REQUIRED.

INDIANFORD DAM & POWERHOUSE REPAIRS

ROCK COUNTY, WISCONSIN

ROCK RIVER

POWERHOUSE ELEVATIONS

NO.	REVISION	DATE
-	-	-
-	-	-
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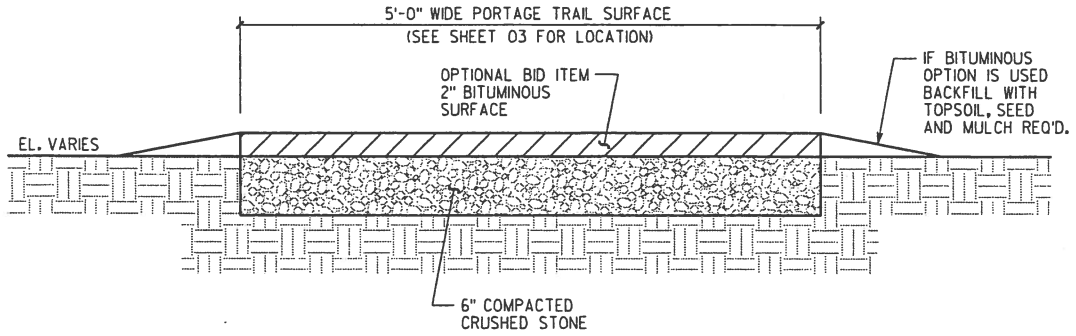
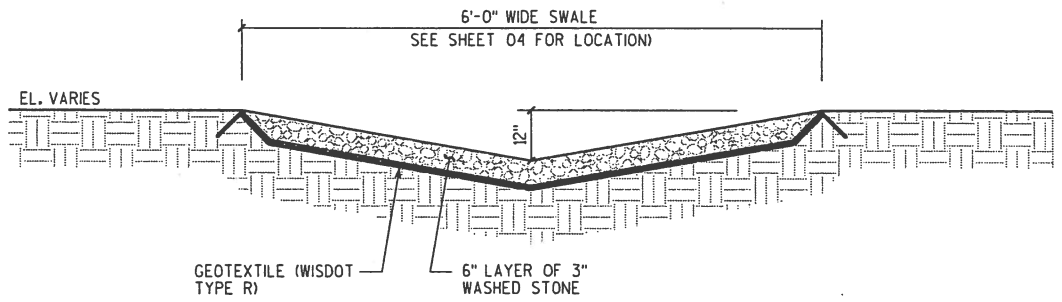


E 13 PORTAGE TRAIL DETAIL
NOT TO SCALE



F 13 LINED SWALE DETAIL
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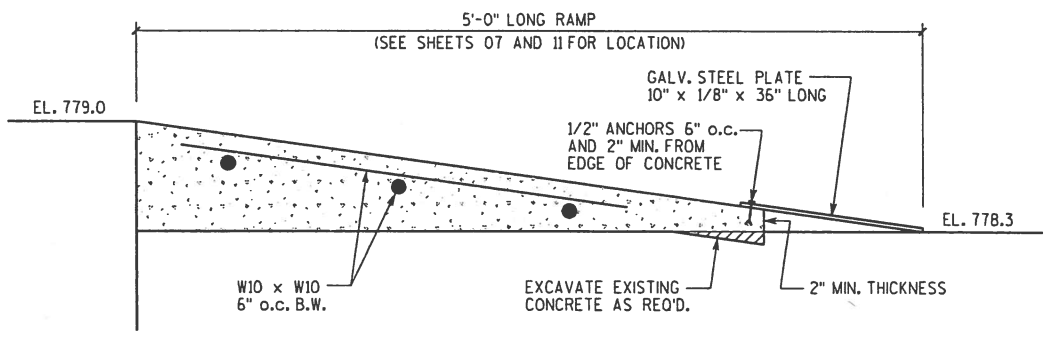
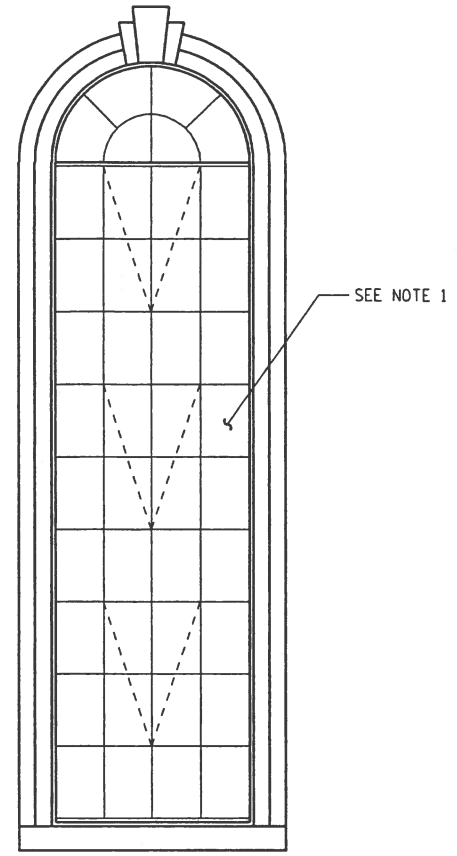
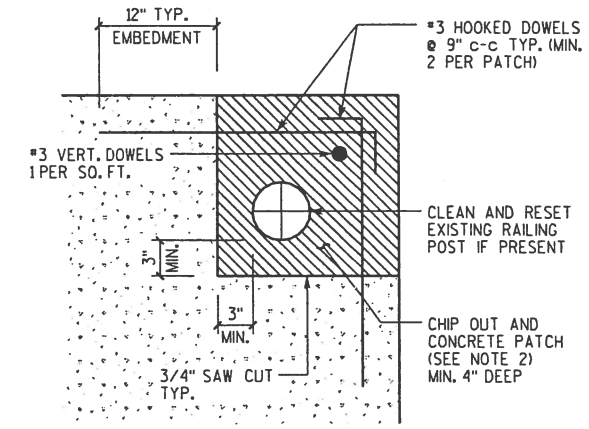


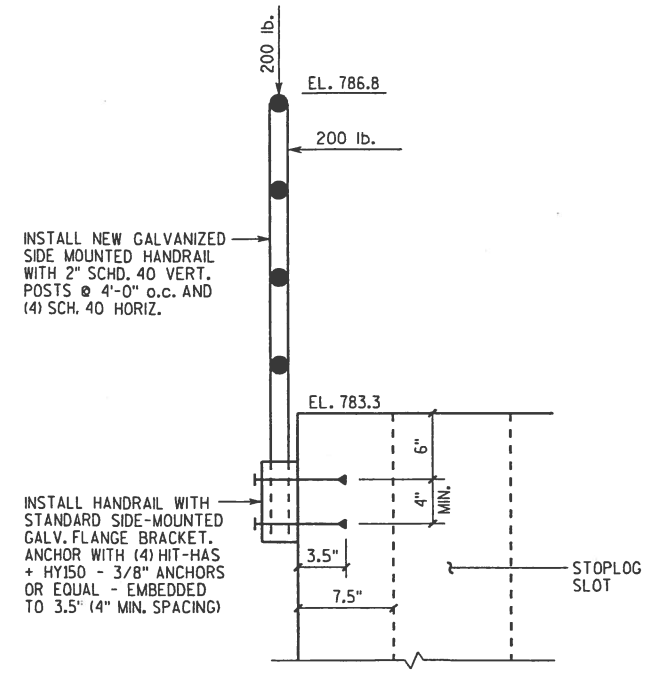
G 13 CONCRETE RAMP DETAIL
NOT TO SCALE



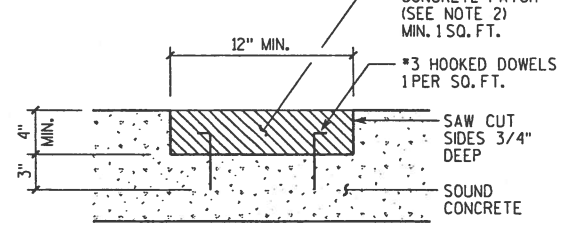
C 13 POWERHOUSE WINDOW DETAIL
NOT TO SCALE



D 13 TYP. CORNER CONCRETE REPAIR DETAIL
NOT TO SCALE



A 13 TYP. SIDE MOUNT RAILING DETAIL
NOT TO SCALE



B 13 TYP. CONCRETE REPAIR DETAIL
NOT TO SCALE

NOTES:

1. REPLACE CRACKED OR MISSING WINDOW PANES. FOR BID PURPOSES ASSUME __ PANES REQUIRE REPLACEMENT AND NO OTHER GLAZING REPAIRS ARE REQUIRED.
2. CONCRETE PATCH REPAIR AGGREGATE 1-1/2" MAX. APPLY THORO "ACRYLIC 60" BONDING AGENT TO CONCRETE SURFACE PRIOR TO PLACING PATCH. REPLACE MIX WATER WITH "ACRYLIC 60".

INDIANFORD DAM & POWERHOUSE REPAIRS

ROCK COUNTY, WISCONSIN

ROCK RIVER

MISCELLANEOUS DETAILS

NO.	REVISION	DATE
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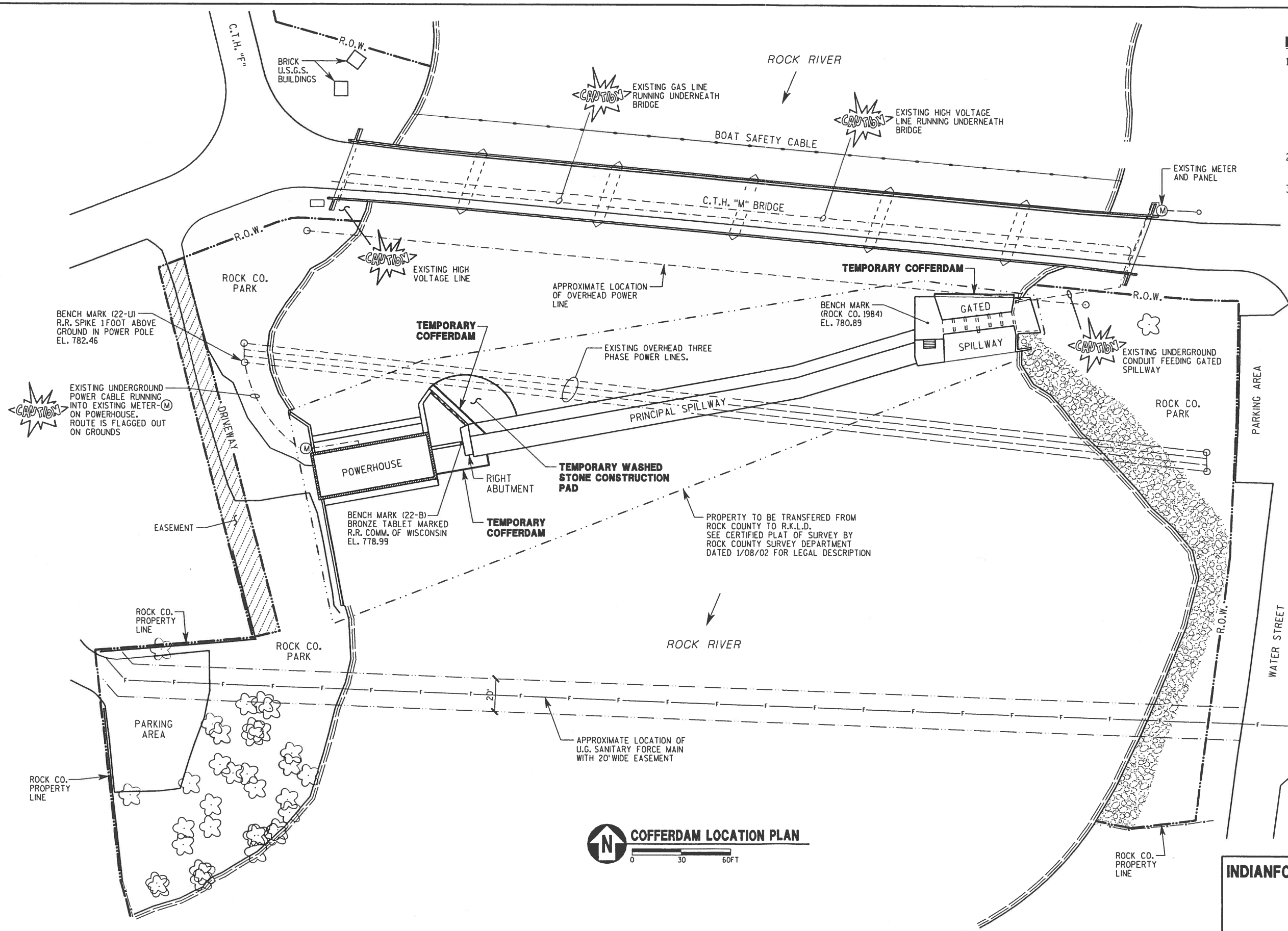

NOTES:

1. STEEL SHEET PILE OPTION SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR DESIGN OF COFFERDAM SYSTEMS AND SHALL SUBMIT SHOP DRAWINGS, WITH CALCULATIONS, TO THE OWNER. WISCONSIN DNR APPROVAL MUST BE OBTAINED PRIOR TO INSTALLING COFFERDAMS.
2. CONTRACTOR TO OBTAIN DEWATERING GENERAL PERMIT FROM WISCONSIN DNR.
3. THE 1983 F.I.S. DETERMINED THE FOLLOWING HEADWATER ELEVATIONS:

FLOOD FREQUENCY	ELEVATION
10 YEAR	779.0
50 YEAR	781.0
100 YEAR	781.3

INDIANFORD DAM & POWERHOUSE REPAIRS

ROCK COUNTY, WISCONSIN

ROCK RIVER

COFFERDAM LOCATION PLAN

NO.	REVISION	DATE
-	-	-
-	-	-
-	-	-
-	-	-

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