INDIANA DEPARTMENT OF NATURAL RESOURCES

TOWN OF BROOKSBURG

BOAT RAMP

PROJECT NO. ENG2002871394

PROJECT LOCATION LATITUDE/LONGITUDE:

INDIANA DEPARTMENT OF TRANSPORTATION

NOTE: ANY QUANTITIES INCLUDED IN THIS PLAN SET ARE FOR INFORMATIONAL PURPOSES ONLY.

THE CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE QUANTITIES REQUIRED TO COMPLETE THE JOB. THE CONTRACT SHALL BE BID AS LUMP SUM.

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PROFILE GRADE
EXISTING GROUND

STA. 100+31.42 TO STA. 101+55.18
TYPICAL SECTION LINE "A"

OUTSIDE OF PAVEMENT LIMITS
SEE CROSS SECTIONS FOR SLOPES

SHOULDER
6" COMPACTED AGG

PLANVIEW FOR PAVEMENT WIDTHS
SEE CROSS SECTIONS +

6" AGGREGATE SHOULDER

SEE CROSS SECTIONS FOR SLOPES
"SIDE OF PAVEMENT LIMIT"

SEE CROSS SECTIONS +
"PLANE FOR TAKEOFF WORKS"
CONCRETE CAST-IN-PLACE RAMP SECTIONS
Not to Scale

PRECAST CONCRETE RAMP SECTIONS
Not to Scale

NOTES
1. Contractor may decrease the length of precast concrete section and increase length of cast-in-place section in areas of low traffic volume.
2. Reinforcement in precast section to be designed by Contractor and submitted for approval.
3. Minimum reinforcement shall be 2% of area.
4. Detailed in cast-in-place section to be submitted by Contractor for approval.
5. See detail "A" for additional details.
6. For all construction, see sheet 4.
MOORING EYE

- Neenah R-3490 3/16" (#2) or equivalent. Mooring eye is placed on subgrade and filled with sand to exclude concrete during the pouring and finishing operations. Opening at bottom of eye is socket for wood or metal stake to bring eye to grade. Sand is washed out of eye when paving is complete. Alternative method is to push the eye in position in the wet concrete. Both methods are acceptable.

NOTES

1. Contractor may decrease the length of precast concrete section and increase length of cast-in-place concrete if river elevation allows.
2. Reinforcement in precast section to be designed by the Contractor and submitted for approval.
3. For underwater placement, place B-borrow to bottom of subgrade.
4. Skid and skid connection designs and details shall be submitted by Contractor for approval.
5. As an alternative to a precast push slab, the Contractor may use a precast sill, install it in shallow water, excavate the area, and install the lower portion with cast-in-place methods. Both methods are acceptable.
GENERAL NOTES:

CONTRACTOR SHALL COORDINATE MAINTENANCE OF TRAFFIC WITH ENGINEER.

THE CONTRACTOR WILL PLACE ADEQUATE WARNING SIGNS AND DRUMS IN ACCORDANCE WITH THE MUTCD AND INDOT STANDARD SPECIFICATIONS.

THE CONTRACTOR IS RESPONSIBLE FOR RESETTING AND MAINTAINING TRAFFIC CONTROL DEVICES FOR THE DURATION OF THE PROJECT.

THE CONTRACTOR SHALL NOTIFY LOCAL AUTHORITIES/ RESIDENTS/ BUSINESSES/ SCHOOLS/ FIRE DEPARTMENT/ POLICE DEPARTMENT/ POST OFFICE/ SANITATION DEPARTMENT OF 2 WEEKS PRIOR TO ANY WORK ACTIVITY.

THE CONTRACTOR IS TO BE AWARE OF THE NEAR CROSSINGS OR UNDERGROUND UTILITIES IN THE VICINITY THAT MAY INTERFERENCE WITH THE CONSTRUCTION PHASING AND MODIFY ACCORDINGLY TO NOT DISRUPT THE UTILITY SERVICE.

THE CONTRACTOR SHALL COVER OR FILL ALL OPEN EXCAVATION AREAS WHEN SITE IS LEFT UNATTENDED.

PHASING NOTES:

THROUGH THE ENTIRE DURATION OF THIS PROJECT, THE ROAD SHALL BE CLOSED TO THRU TRAFFIC. DURING THE ROAD CLOSURE, THE CONTRACTOR WILL PROVIDE LOCAL ACCESS TO ANY RESIDENTS OR BUSINESSES ALONG THE ROUTE.

ROAD CLOSURE SIGN ASSEMBLY - 1 REQUIRED
TYPE III-B BARRICADES - 16 LF REQUIRED

HORIZONTAL SCALE
SURVEY BOOK
MAINTENANCE OF TRAFFIC
INDIANA DEPARTMENT OF NATURAL RESOURCES
PERSON
DATE
REVISION
DRAWN
DESIGNATED
DESIGN ENGINEER
DW
KM
DW
15
5
15
15
15
ELEV. 451.82

STA. 100+31.42 LINE "A"
BEGIN CONSTRUCTION

ELEV. = 455.43

STA. 101+55.18 LINE "A"
END CONSTRUCTION

NOTE: SEE GRADING SHEET FOR AREA PRIOR TO 100+31.42
ELEV. 445.84
STA. 2+16.01 LINE "R"
END CONSTRUCTION
ALTERNATE BID LIMITS

ASPHALT PARKING

AREA TO REMAIN

6" COMPACTED AGGREGATE

AREA TO REMAIN
6" COMPACTED AGGREGATE

SUBGRADE TREATMENT TYP 1B

10" COMPACTED AGGREGATE NO. 53, ON
275#/SY HMA INTERMEDIATE TYPE 'B', ON
165#/SY HMA SURFACE TYPE 'B', ON

ALTERNATE BID LIMITS FOR
ASPHALT SECTION

ELEVATIONS WERE DERIVED FROM DOW METHODS AND
ADJUSTED TO THE NAVD88 VERTICAL DATUM
COORDINATE SYSTEM
COORDINATES ARE BASED ON THE STATE PLANE
COORDINATE SYSTEM: INDIANA EAST AND ARE IN
US SURVEY FEET.

CONTRACT
DESIGN ENGINEER
DATE
CHECKED:
CHECKED:
DRAWN:

HORIZONTAL SCALE
VERTICAL SCALE

INDIANA DEPARTMENT
OF NATURAL RESOURCES

ENGINEERING NO. 2002871394

STATE OF
11800364

DESIGNED:
CHECKED:
DRAWN:

UTION DATE

REVISIONS
OF SHEETS

OF NATURAL RESOURCES

OF NATURAL RESOURCES
EROSION CONTROL

**EROSION CONTROL NOTES:**

1. **Erosion Control:** The design was created with the intent to prevent sediment from leaving the project area during construction. Erosion control is essential to protect the environment.

2. **Construction:** The erosion control blankets should be protected with temporary measures to prevent erosion.

3. **Plantings:** Trees, shrubs, and vines should be planted to stabilize the soil.

4. **Filtering:** Filter strips and other erosion control measures should be installed to trap sediment.

5. **Temporary Measures:** After construction is completed, temporary erosion control measures should be removed, and permanent vegetation should be established.

**CONSTRUCTION ACTIVITIES:**

1. **Utilities:** Utilities should be notified two working days before construction to avoid conflicts.

2. **Temporary Seedings:** Temporary seedings should be placed at this time on disturbed areas.

3. **Permits:** Necessary permits must be obtained before starting construction.

4. **Improvements:** Improvements can be constructed if necessary.

5. **Corrective Measures:** Corrective measures should be taken as needed to prevent erosion.

**EROSION CONTROL BLANKETS:**

Blankets should be placed at a slope of 3:1 or steeper, if applicable. Permanent plantings should be placed on all disturbed areas.

**SPOILS AREAS:**

A spoil area should be established by the contractor in an approved location. The spoil area should be surrounded by a silt fence.

**SILT FENCE:**

A silt fence should be installed around the project site to prevent sediment from leaving.

**EROSION CONTROL MEASURES:**

- **Filter Strips:** Filter strips should be installed to trap sediment.
- **Swale:** Swales should be constructed to channel water away from the project.
- **Silt Fences:** Silt fences should be installed around the project site.

**RECOMMENDED EROSION CONTROL:**

Refer to the INDANA STORM WATER QUALITY MANUAL AND THE INDIANA STORM WATER QUALITY MANUAL FOR APPROVAL.
CROSS SECTIONS

1" = 5'

100+31.42 "A"

BEGIN CONSTRUCTION

STA. 101+55.18 "A"

END CONSTRUCTION

STA. 100+00 TO STA. 102+00 "A"