

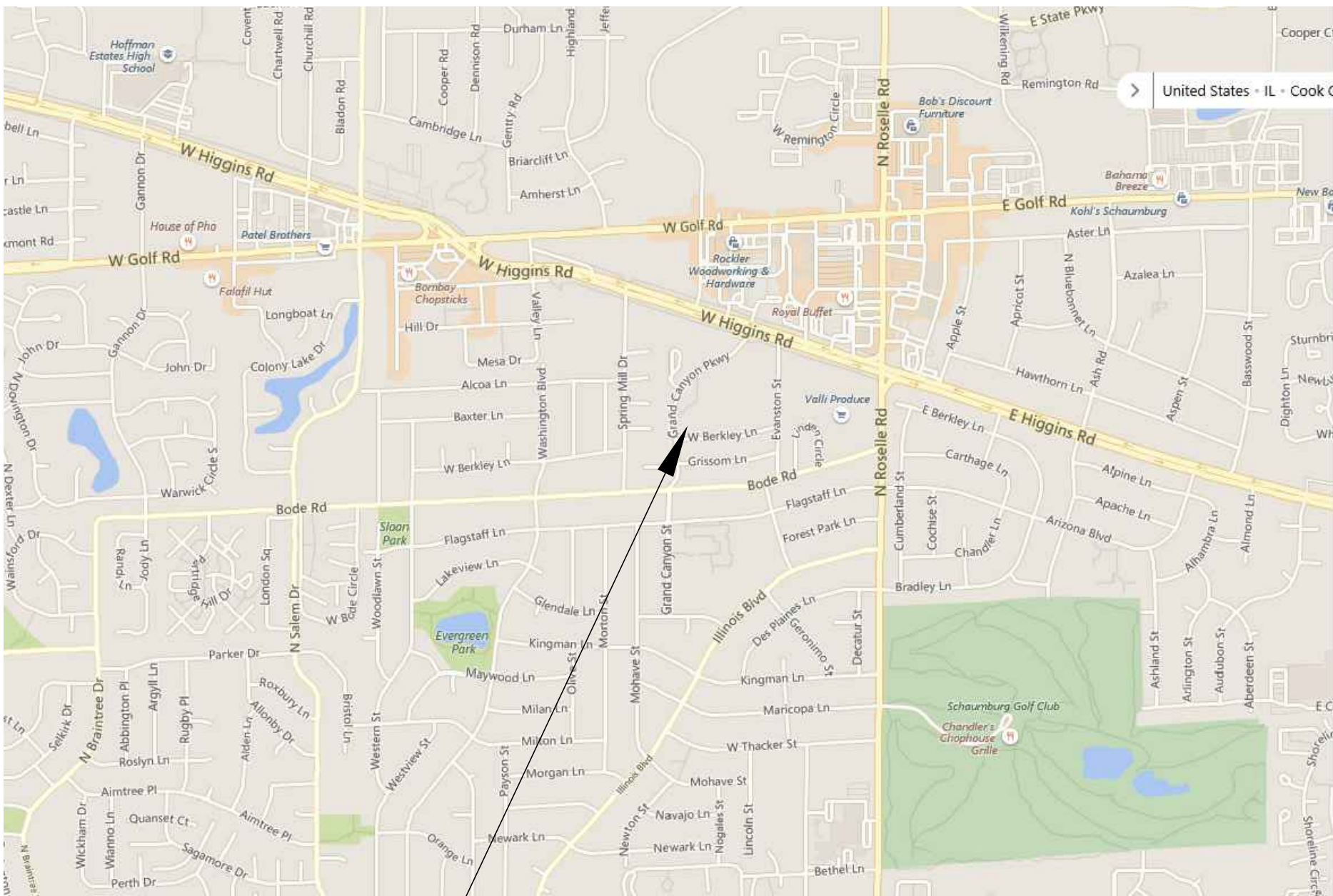
COMMUNITY PARK POND RESTORATION PROJECT

925 GRAND CANYON PARKWAY

VILLAGE OF HOFFMAN ESTATES, ILLINOIS

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PROJECT LOCATION

THE COMMUNITY PARK POND IS LOCATED ON THE EAST SIDE OF COMMUNITY PARK, NORTH OF BODE ROAD, WEST OF ROSELLE ROAD, SOUTH OF HIGGINS ROAD, EAST OF 925 GRAND CANYON DRIVE, NORTH OF W BERKELEY LANE, HOFFMAN ESTATES, COOK COUNTY, ILLINOIS.

SITE BENCHMARK

1. BENCHMARK = NATIONAL GEODETIC SURVEY #AJ2835, N 42 04 00.71065 (N); E 088 04 41.99311 (W), ELEV. (NAVD 88) 648.00 FT. STATION IS LOCATED WITHIN THE CITY LIMITS OF SCHAUMBURG, 2.8 MI SOUTHEAST OF ROLLING MEADOWS IN SECTION 33, T42N, R10E. TO REACH FROM THE JUNCTION OF IL RT 62 AND ROSELLE RD PROCEED SOUTH ON ROSELLE RD 0.80 MI TO THE STATION LOCATED IN THE SOUTHEAST CORNER OF INTERSECTION OF ROSELLE RD AND CENTRAL RD. STATION IS 150 FT EAST OF THE CENTERLINE OF ROSELLE RD. STATION IS 50 FT EAST OF PK NAIL IN POWER POLE, 45 FT SOUTH OF A CUT X IN THE MEDIAN (CL) OF THE ENTRANCE TO MEDIEVAL TIMES (CENTRAL RD EXTENDED), 25 FT SOUTHWEST OF A LIGHTPOLE, 21 FT SOUTHEAST OF A LIGHTPOLE, 15 FT EAST OF THE WEST END OF THE CONCRETE SIDEWALK, 2 FT SOUTH OF THE CONCRETE SIDEWALK, AND 29 FT NORTH OF AN ORANGE FIBERGLASS WITNESS POST. NOTE- ACCESS TO DATUM POINT THROUGH 6 INCH LOGO CAP. DATUM POINT IS 0.25 FT BELOW CAP. THE ROD WAS DRIVEN TO REFUSAL AND ANCHORED. PK NAILS WERE SET IN WOOD PHYSICAL TIES.

NOTE: THE EXISTING TOPOGRAPHIC CONTOURS (NAVD88 DATUM) AS DEPICTED HAVE BEEN PROVIDED THROUGH THE COOK COUNTY GIS SYSTEM, ILLINOIS.

OWNER

VILLAGE OF HOFFMAN ESTATES
1900 HASSELL ROAD
HOFFMAN ESTATES, IL 60169
PHONE: 847-882-9100
CONTACT: MELANIE CAROLLO, P.E.

ENGINEER

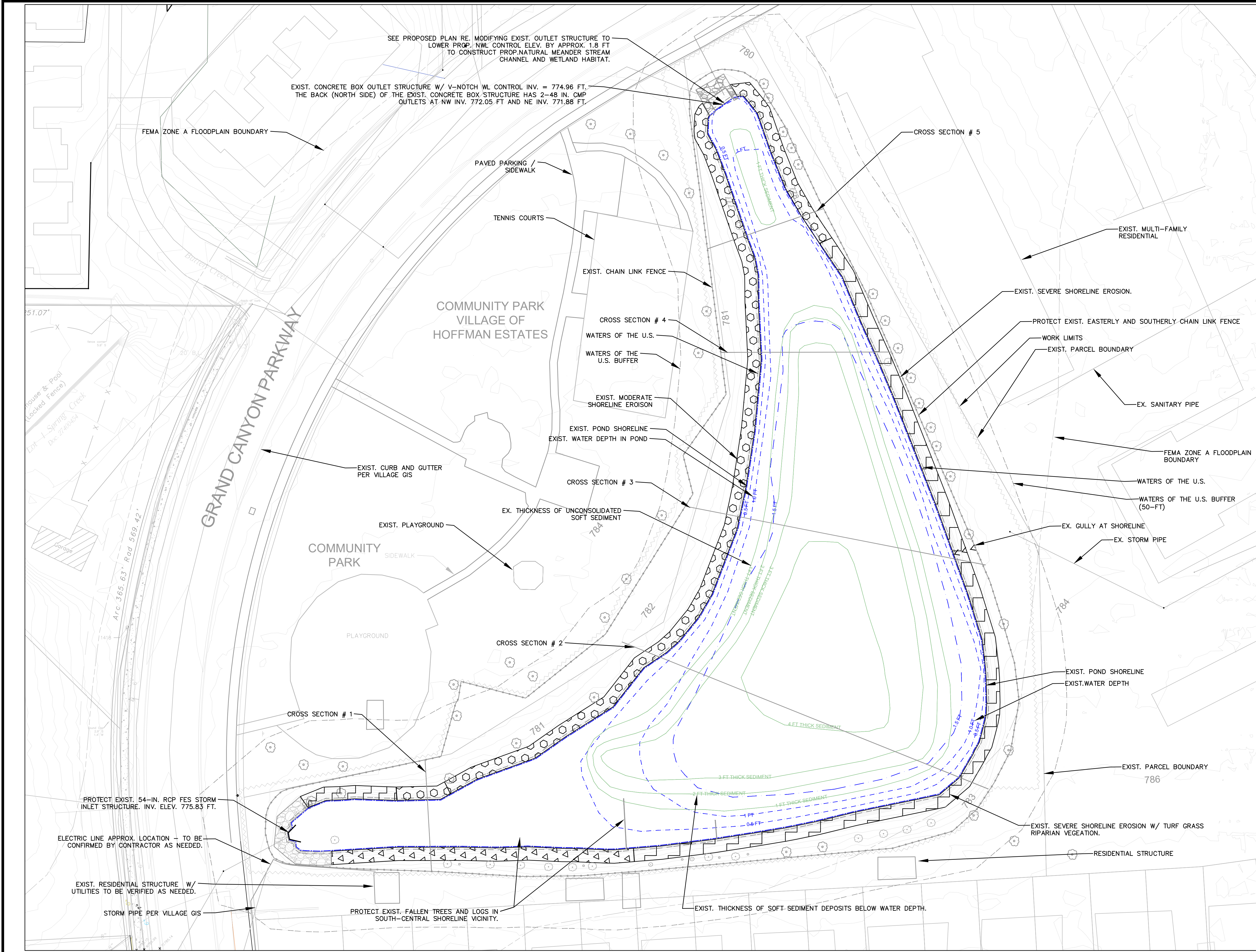
LIVING WATERS CONSULTANTS, INC.
16W455 S. FRONTAGE ROAD, SUITE 119
BURR RIDGE, ILLINOIS 60527
630-321-1133 OFFICE
CONTACT: TED GRAY, PE, CFM, CPESC

PROFESSIONAL ENGINEER'S CERTIFICATION:
THEODORE R. GRAY, A LICENSED PROFESSIONAL ENGINEER OF ILLINOIS, HEREBY CERTIFIES THAT THIS SUBMISSION WAS PREPARED ON BEHALF OF LIVING WATERS CONSULTANTS, INC. UNDER MY PERSONAL DIRECTION. THIS TECHNICAL SUBMISSION IS INTENDED TO BE USED AS AN INTEGRAL PART OF AND IN CONJUNCTION WITH THE PROJECT SPECIFICATIONS AND CONTRACT DOCUMENTS.



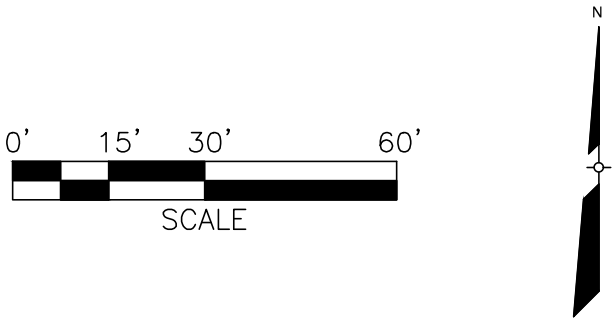
ILLINOIS LICENSED PROFESSIONAL ENGINEER 062-055335
EXPIRES 11/30/2027

 JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS Call 48 hours before you dig (Excluding Sat., Sun. & Holidays) 1-800-892-0123	Living Waters Consultants, Inc. Burr Ridge, Illinois								
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VILLAGE OF HOFFMAN ESTATES									
SHEET 1: COVER SHEET COMMUNITY PARK POND RESTORATION PROJECT 925 GRAND CANYON PARKWAY VILLAGE OF HOFFMAN ESTATES, ILLINOIS									



- NOTES:
- 1) SAVE TREES AND SHRUBS MARKED IN FIELD (REVIEW W/ ENGINEER) OR INDICATED IN PLAN TEXTBOX NOTES. TREE AND SHRUB REMOVAL WITHIN WORK LIMITS, W/ STUMP GRINDING (AND HERBICIDING IF APPROPRIATE), W/ OFFSITE DISPOSAL OF CUT MATERIALS SHALL OCCUR AS FOLLOWS:
 - REMOVE AND HERBICIDE CUT STUMPS FOR UNMARKED INVASIVE TREE SPECIES BELOW 12-IN. DIAM. (INCLUDING BUT NOT LIMITED TO MULBERRY, SILVER MAPLE, COTTONWOOD, BOX ELDER).
 - REMOVE AND HERBICIDE CUT STUMPS INVASIVE SHRUBS (TYP. BUCKTHORN, HONEYSUCKLE).
 - IF NEEDED, CONTRACTOR MAY REMOVE TREES MARKED TO BE SAVED (IF NEEDED FOR CONTRACTOR STABILIZATION OR ACCESS) BUT ONLY AFTER CONTRACTOR REVIEW AND APPROVAL W/ ENGINEER BEFORE TREE REMOVAL.
 - REMOVE TREES AND SHRUBS WITH OFFSITE DISPOSAL.
 - GRIND TREE STUMPS TO 1-FT BELOW PROP. GROUND SURFACE FOR ALL REMOVAL TREES.
 - TREES REMOVED THAT ARE LOCATED IN CRITICAL SLOPES THAT ARE NOT PROP. TO BE RE-GRADED SHALL BE CUT FLUSH W/ GROUND (STUMP LEFT INTACT) AND THE STUMP SHALL BE HERBICIDED.
 - INVASIVE SHRUBS (INCLUDING BUCKTHORN AND HONEYSUCKLE) SHALL BE CUT W/ STUMPS GROUND TO 6-IN. DEPTH BELOW THE PROP. GROUND SURFACE.
 - CONTRACTOR SHALL FIELD REVIEW AND CONFIRM ALL TREES PROP. FOR PROTECTION OR REMOVAL ON THE SOUTH (RESIDENTIAL) SHORELINE W/ OWNER AND ENGINEER, PRIOR TO TREE REMOVAL.

- CUT TREES WITHIN REQUIRED SIZE AND TYPE LIMITS, MAY BE USED FOR PROP. LOG HABITAT STRUCTURES. OTHERWISE, CUT MATERIALS SHALL BE DISPOSED OFFSITE.
- NOT ALL EXIST. TREES, SHRUBS, OR STUMPS MAY BE INDICATED ON PLANS.
- 2) ALL STABILIZATION STRUCTURE LOCATIONS AND ELEVATIONS SHALL BE STAKED IN FIELD BY CONTRACTOR AND REVIEWED WITH ENGINEER PRIOR TO INSTALLATION.
 - 3) CONSTRUCTED CROSS-SECTIONAL AREAS OF THE SHORELINE SHALL CONFORM TO THAT OF THE SHORELINE UPSTREAM AND DOWNSTREAM OF THE SITE.
 - 4) TOPOGRAPHIC CONTOURS ARE FROM COOK COUNTY GIS DEPARTMENT.
 - 5) APPROX. DEPICTED EXISTING POND DEPTHS AND BOTTOM OF SOFT SEDIMENT ARE BASED ON LIMITED SURVEY BY LIVING WATERS CONSULTANTS, INC. 10/16/2025 AND 08/10/2023 W/ RTK-GPS.
 - 7) CONTRACTOR SHALL BE RESPONSIBLE TO LOCATE, PROTECT, AND AVOID EXIST. INFRASTRUCTURE AND UTILITIES IN ALL AREAS. ANY DAMAGED UTILITIES OR INFRASTRUCTURE SHALL BE REPAIRED IMMEDIATELY PER SPECIFICATIONS TO SATISFACTION OF OWNER (VILLAGE OF HOFFMAN ESTATES) AND ENGINEER AT NO ADDITIONAL EXPENSE TO OWNER OR ENGINEER.
 - 8) THERE SHALL BE NO PLACEMENT OF FILL OR GRADING BELOW DRIP LINE OF EX. TREES (OAK OR OTHER SPECIES) SCHEDULED TO BE PROTECTED. REVIEW W/ OWNER AND ENGINEER.
 - 9) CONTRACTOR SHALL PROVIDE FIELD LAYOUT REVIEW OF PROPOSED PLAN AS APPLICABLE WITH OWNER AND ENGINEER WITH MIN. 3-DAY NOTIFICATION PRIOR TO CONSTRUCTION.
 - 10) CONTRACTOR SHALL FIELD-LOCATE AND MARK LOCATIONS OF ALL EXISTING STRUCTURES AND UTILITIES PRIOR TO INSTALLATION AND REVIEW W/ ENGINEER AND OWNER.



LEGEND

- EXIST. SEVERE SHORELINE EROSION
- EXIST. MODERATE SHORELINE EROSION.
- EXIST. LOW SHORELINE EROSION.
- EXISTING THICKNESS OF SOFT SEDIMENT WITHIN POND
- EXISTING POND SHORELINE (APPROX.)
- EXIST. TREE (SEE TREE REMOVAL NOTES FOR ALL TREES)
- PROP. TREE REMOVAL (SEE TREE REMOVAL NOTES)
- 3+50 STREAM STATION (APPROX.)
- PROP. TEMP. STOCKPILE
- TEMP. CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS
- ROCK RIFFLE
- PROP. SILT FENCE
- PROP. 6-FT TALL CONSTRUCTION FENCE
- WATERS OF THE U.S.
- WATERS OF THE U.S. 50-FT BUFFER
- 1-FOOT TOPOGRAPHY
- PARCEL BOUNDARIES
- WORK LIMITS
- APPROX. FLOODPLAIN BOUNDARY (FEMA ZONE A)
- EX. STORM INLET / FES

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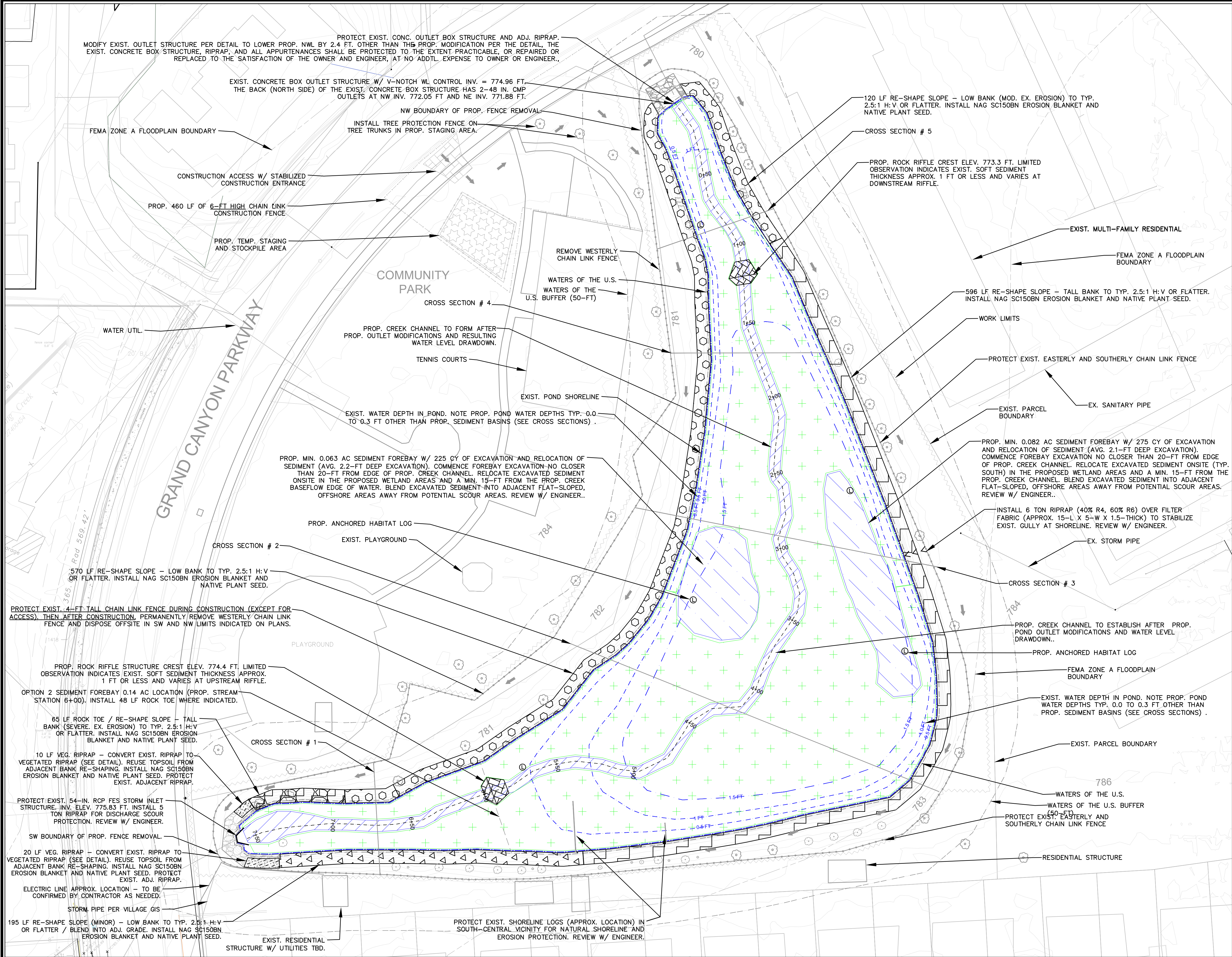
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OFFICE: 630- 321-1133



SHEET 2: EXISTING POND CONDITIONS
COMMUNITY PARK POND RESTORATION PROJECT
925 GRAND CANYON PARKWAY
VILLAGE OF HOFFMAN ESTATES, ILLINOIS



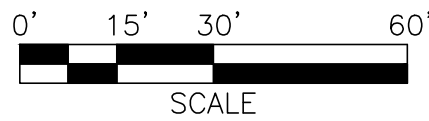
NOTES:
1) SAVE TREES AND SHRUBS MARKED IN FIELD (REVIEW W/ ENGINEER) OR INDICATED IN PLAN TEXTBOX NOTES. TREE AND SHRUB REMOVAL WITHIN WORK LIMITS. W/ STUMP GRINDING (AND HERBICIDING IF APPROPRIATE), W/ OFFSITE DISPOSAL OF CUT MATERIALS SHALL OCCUR AS FOLLOWS:

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NOT ALL EXIST. TREES, SHRUBS, OR STUMPS MAY BE INDICATED ON PLANS.

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LEGEND

- PROP. STREAM CHANNEL RESTORATION
- TALL BANK - ROCK TOE & RESHAPE SLOPE (SEVERE)
- TALL BANK - RESHAPE SLOPE (SEVERE EROSION)
- LOW BANK - RESHAPE SLOPE (MODERATE EROSION)
- LOW BANK - RESHAPE SLOPE (LOW EROSION)
- PROP. WETLAND HABITAT
- PROP. DEEP POOL HABITAT
- CONVERT EXIST. RIPRAP BANK TO VEG. RIPRAP (SEE DETAIL)
- PROP. HABITAT LOG (REVIEW W/ ENGINEER)
- EXIST. TREE (SEE TREE REMOVAL NOTES)
- PROP. TREE REMOVAL (SEE ALSO TREE REMOVAL NOTES)
- 3+50 STREAM STATION (APPROX.)
- PROP. TEMP. STOCKPILE
- TEMP. CONSTRUCTION ENTRANCE
- CONSTRUCTION ACCESS
- ROCK RIFFLE
- PROP. SILT FENCE
- PROP. 6-FT TALL CONSTRUCTION FENCE
- WATERS OF THE U.S.
- WATERS OF THE U.S. 50-FT BUFFER
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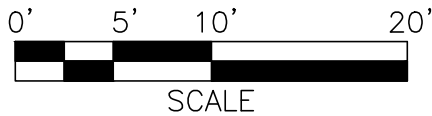
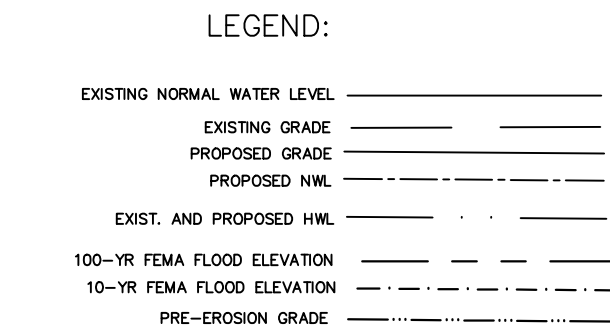
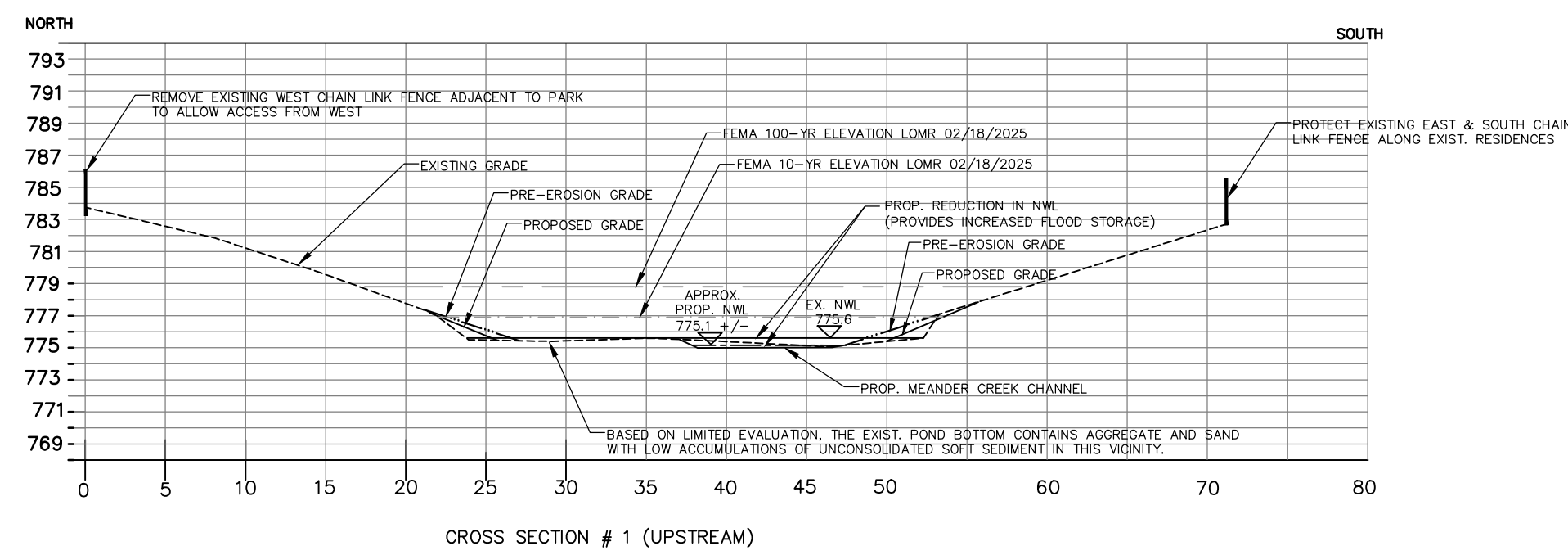


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BURR RIDGE, ILLINOIS 60527
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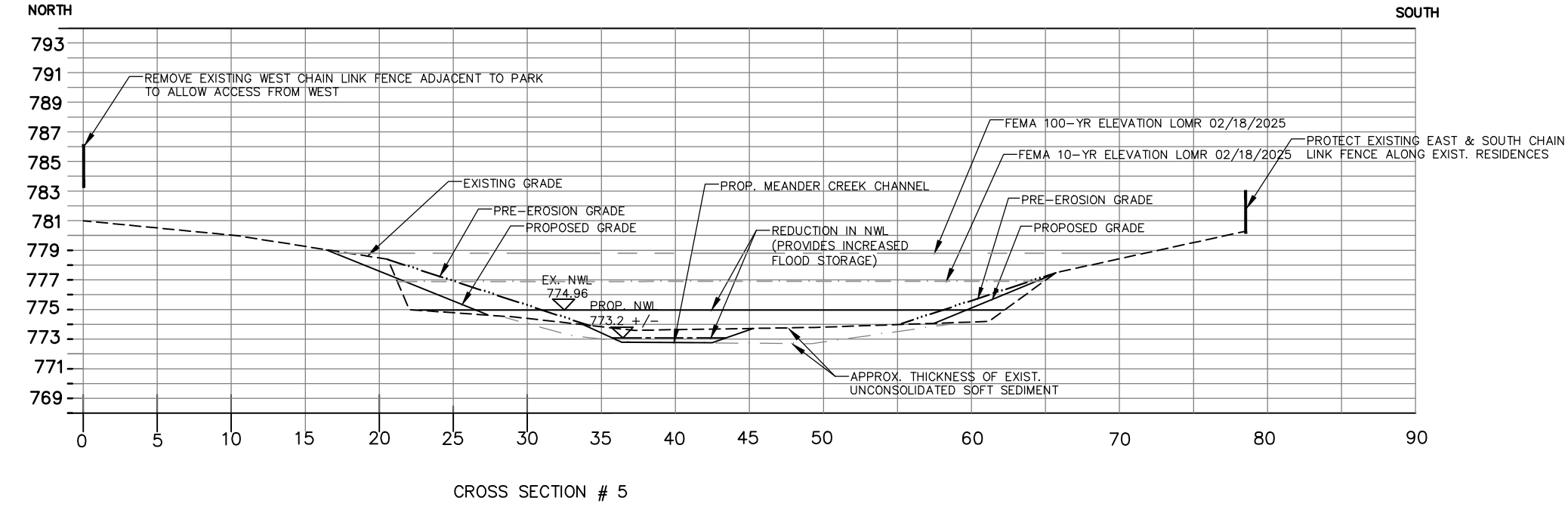
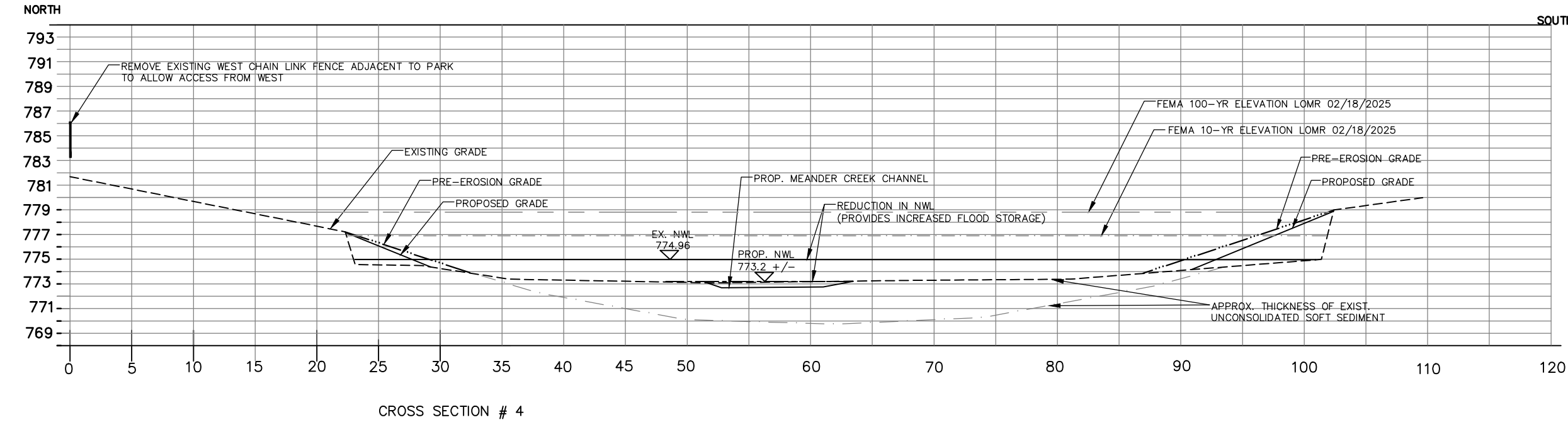
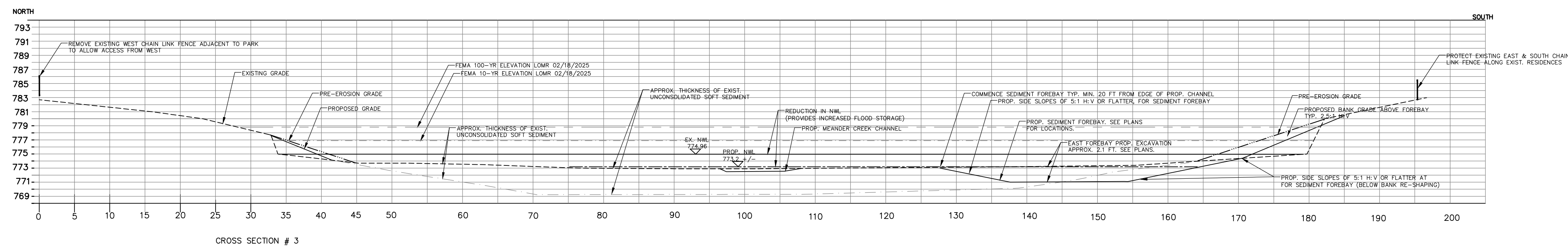
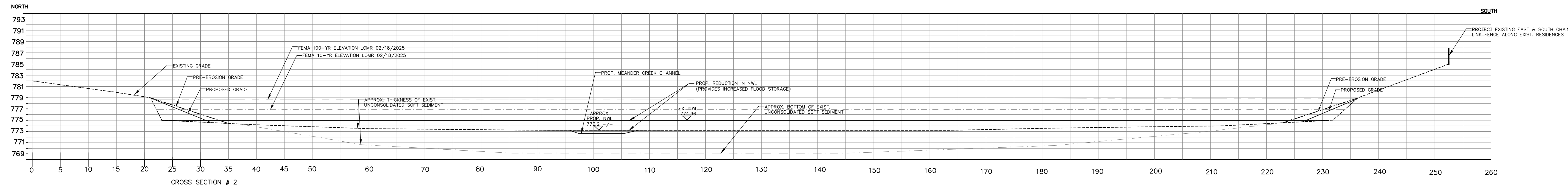
SHEET 3: PROPOSED RESTORATION PLAN
COMMUNITY PARK POND RESTORATION PROJECT
925 GRAND CANYON PARKWAY
VILLAGE OF HOFFMAN ESTATES, ILLINOIS

CROSS SECTIONS
COMMUNITY PARK POND RESTORATION PROJECT
925 GRAND CANYON PARKWAY
VILLAGE OF HOFFMAN ESTATES, ILLINOIS



NOTES:

A) ALL UTILITIES SHALL BE LOCATED BY JULIE, AT THE DIRECTION OF THE CONTRACTOR PRIOR TO COMMENCEMENT OF WORK.



CALL JULIE TOLL FREE
800-892-0123

JOINT
UTILITY
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INFORMATION FOR
EXCAVATORS

Call 48 hours before you dig
(Excluding Sat. Sun. & Holidays)

1-800-892-0123

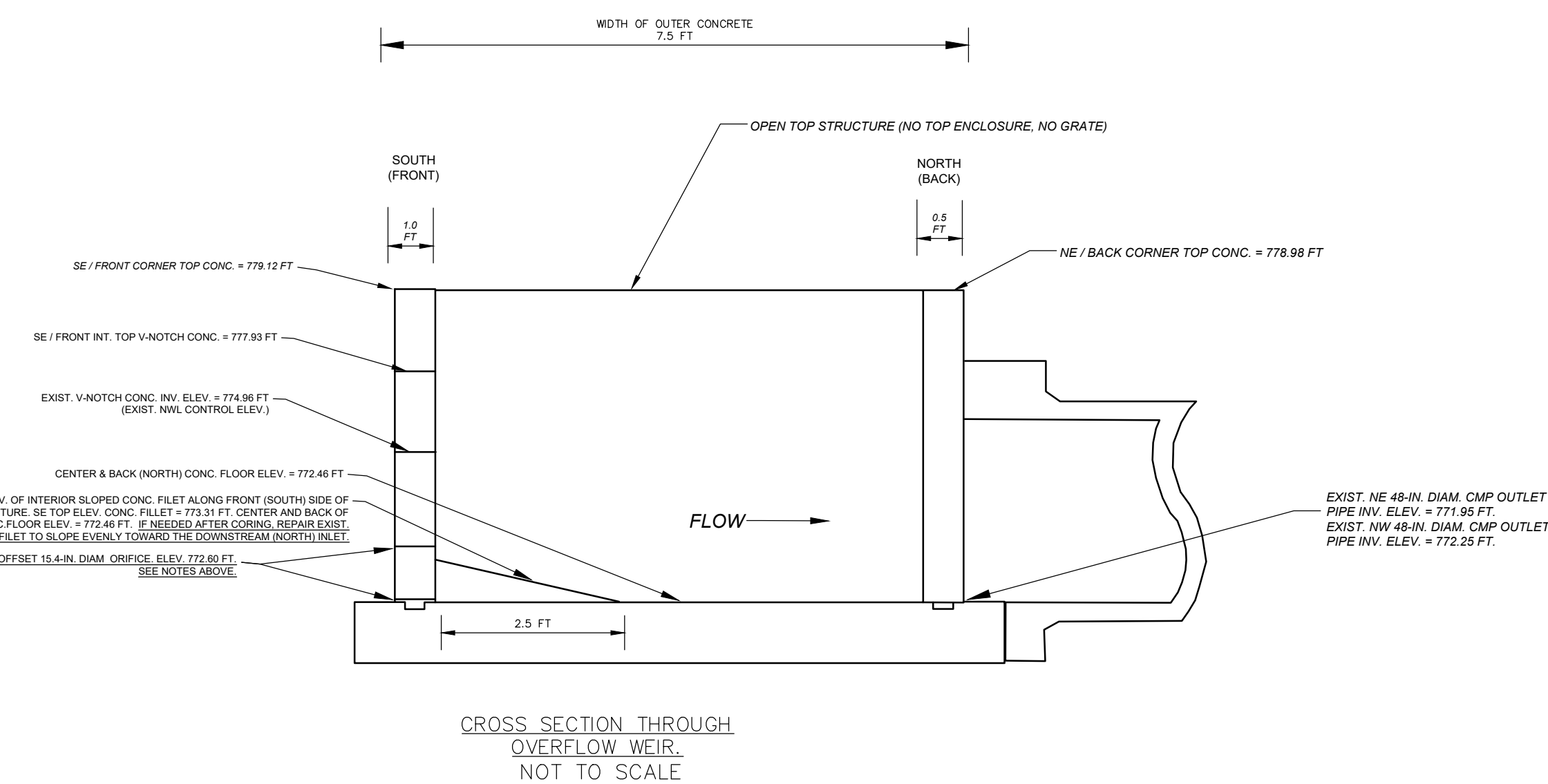
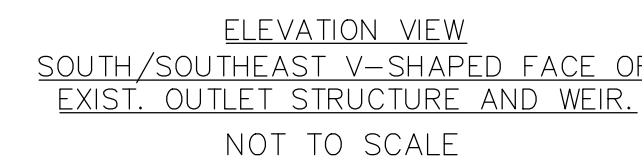
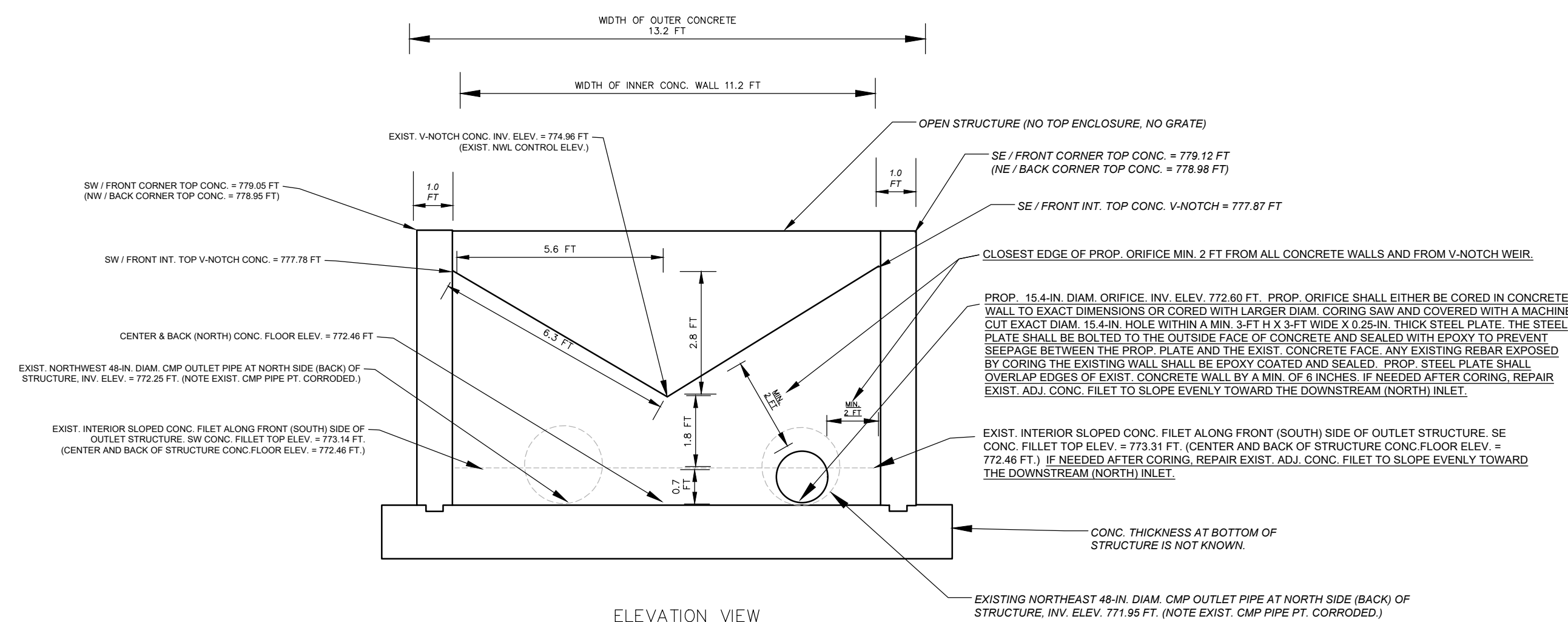
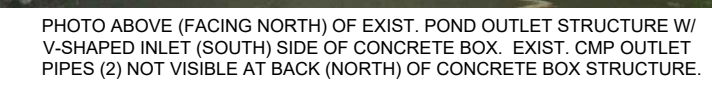
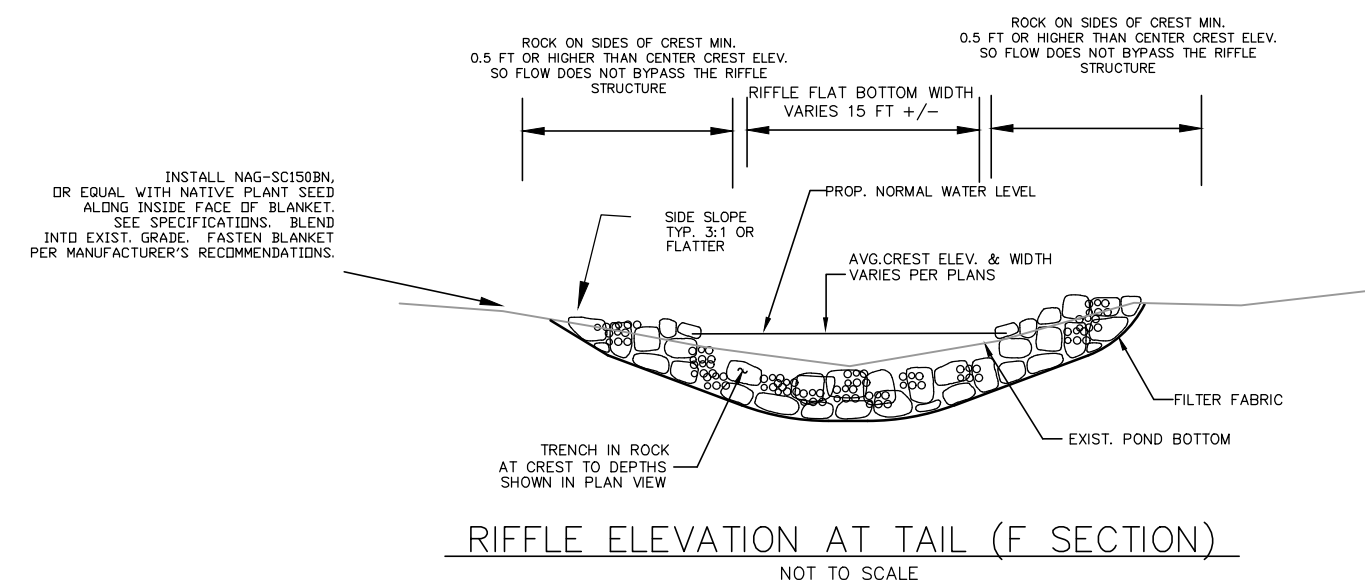
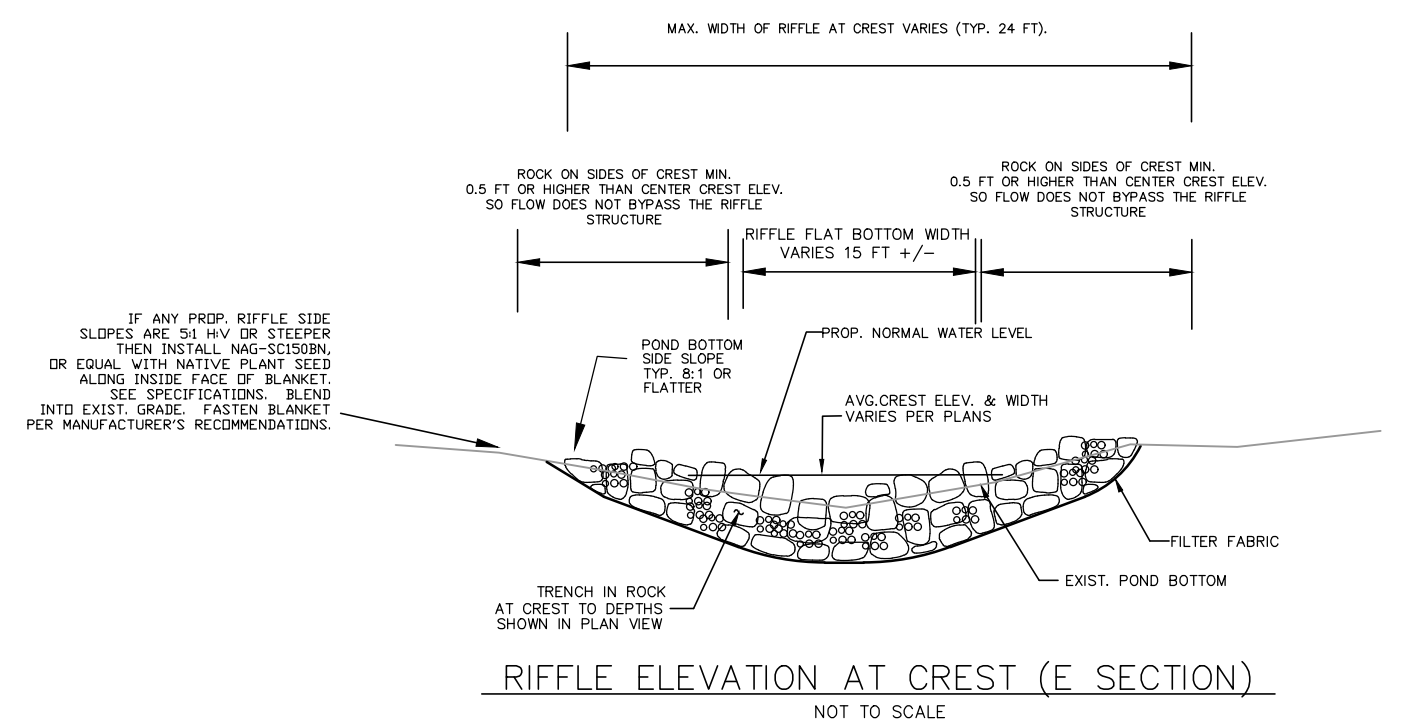
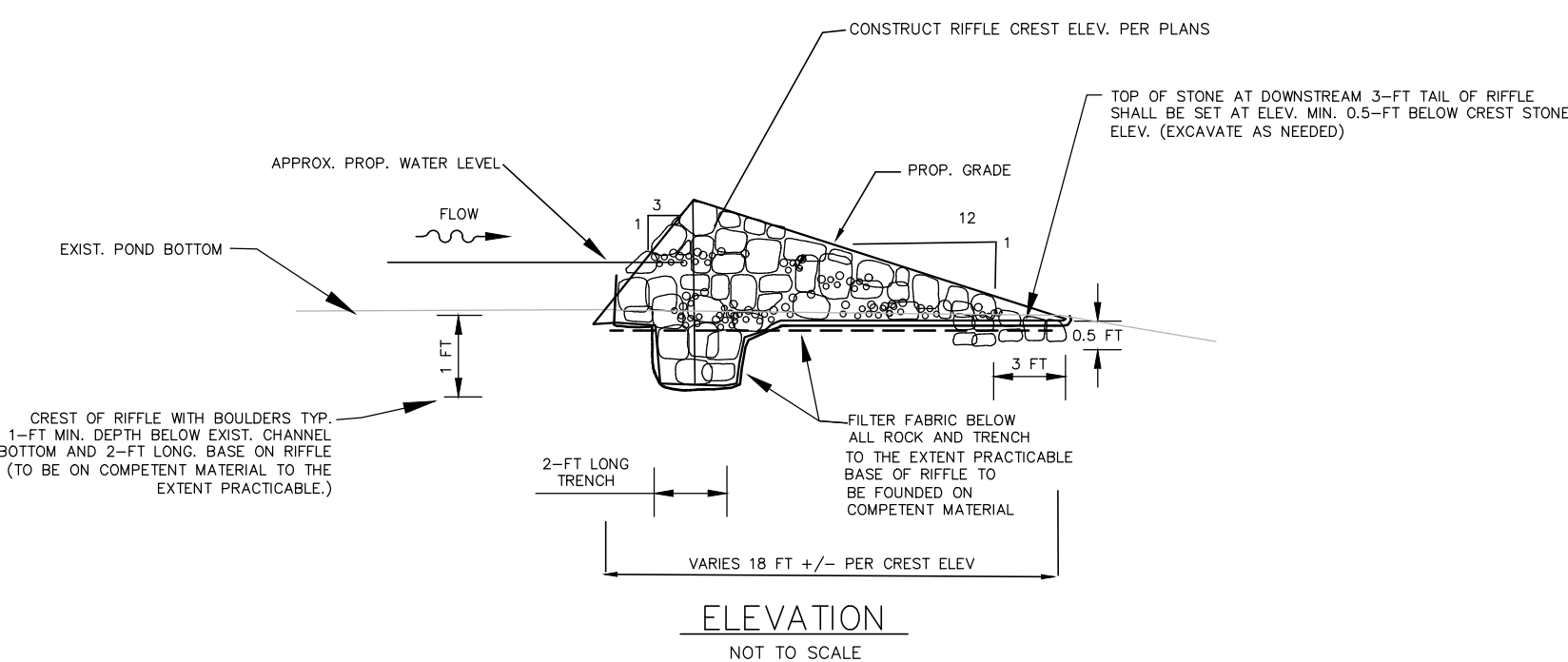
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BURR RIDGE, IL 60527
OFFICE: 630-321-1133



SHEET 4: CROSS SECTIONS
COMMUNITY PARK POND RESTORATION PROJECT
925 GRAND CANYON PARKWAY
VILLAGE OF HOFFMAN ESTATES, ILLINOIS



- NOTES:
- 1) THE EXISTING OUTLET STRUCTURE DIMENSIONS ARE BASED ON SURVEY BY LIVING WATERS CONSULTANTS, INC 10/16/2025 AND 08/10/2023.
 - 2) THE UNDERLINED NOTES INDICATE PROPOSED WORK TO BE PERFORMED ON THE EXISTING BOX STRUCTURE.
 - 3) EXISTING CONCRETE BOX STRUCTURE SHALL BE PROTECTED BY THE CONTRACTOR AT ALL TIMES AND ANY DAMAGE TO THE EXISTING STRUCTURE BY THE CONTRACTOR SHALL BE REMEDIED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AND ENGINEER AT NO EXPENSE TO THE OWNER OR ENGINEER.
 - 4) PROP. STEEL PLATES NOTED ABOVE SHALL BE 1/4-INCH THICK AND SHALL OVERLAP EDGES OF CORED CONCRETE OR EXISTING HOLES IN EXISTING CONCRETE BY A MIN. OF SIX (6) INCHES.

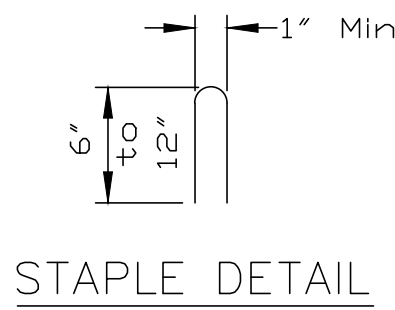
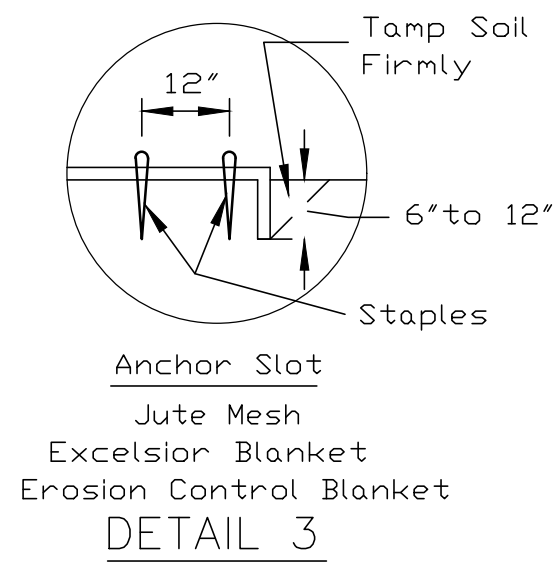


Living Waters
CONSULTANTS

SHEET 5: DETAILS
COMMUNITY PARK POND RESTORATION PROJECT
925 GRAND CANYON PARKWAY
VILLAGE OF HOFFMAN ESTATES, ILLINOIS

THIS SPACE LEFT BLANK

Each edge of blanket shall be secured using anchor slot.
Do not use lap joints between sections of erosion control blanket.

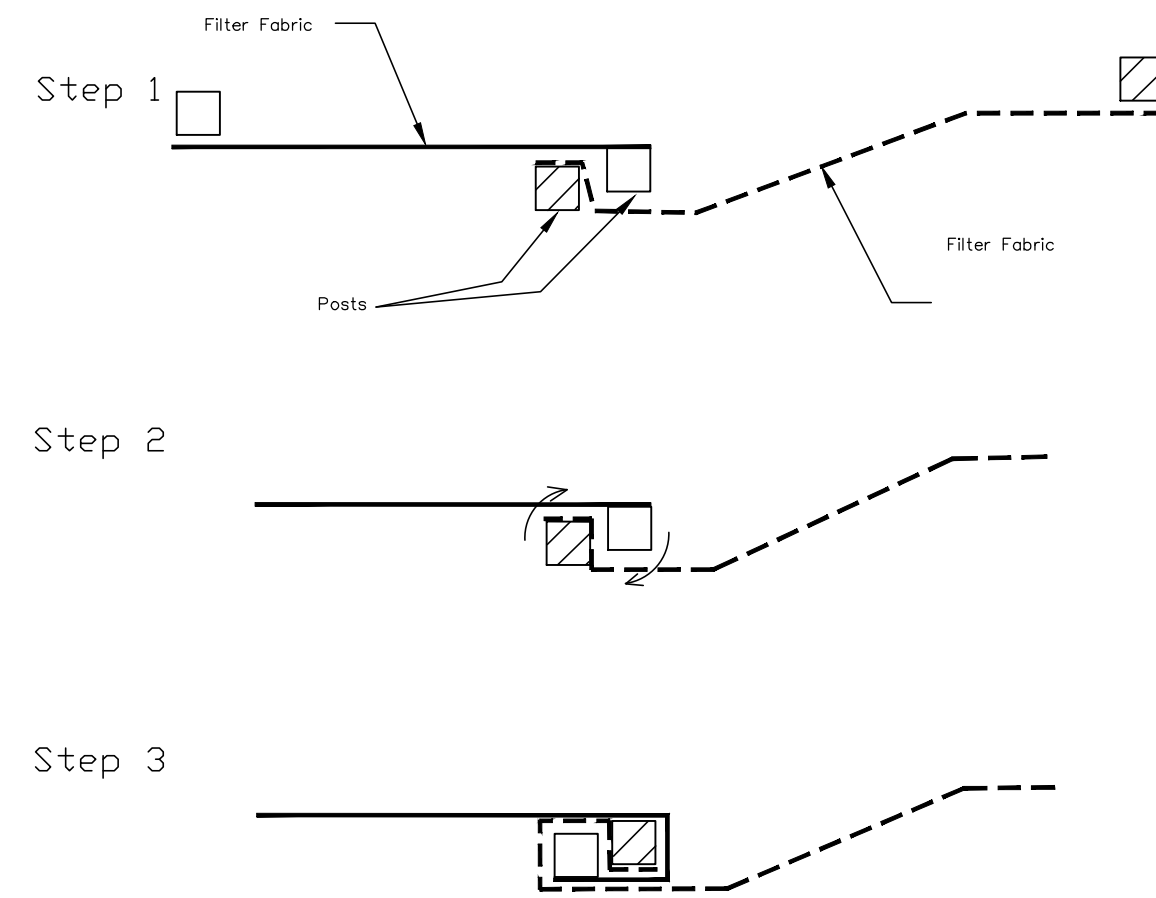


NOTES:

1. Staples are to be placed alternately, in columns approximately 2' apart and in rows approximately 3' apart. Approximately 175 staples are required per 4'x 225' roll of material and 125 staples are required per 4'x 150' roll of material.
2. Erosion control material shall be placed firmly in contact with soil.
3. All terminal ends and transverse laps shall be stapled at approximately 12' intervals.

IL URBAN MANUAL IL-530B

9 EROSION BLANKET KEY-IN
NOT TO SCALE

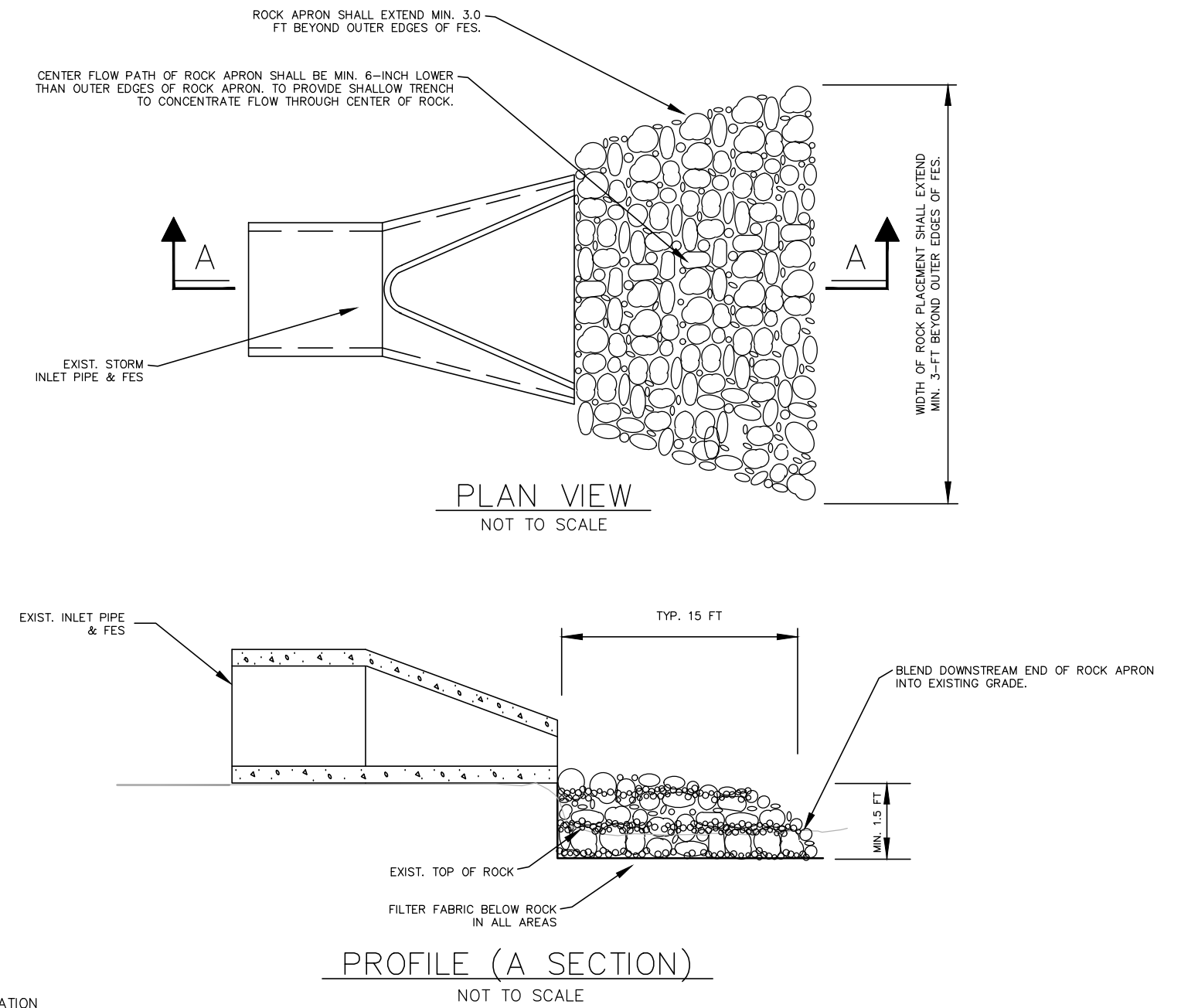


ATTACHING TWO SILT FENCES

- NOTES:
1. PLACE THE END POST OF THE SECOND FENCE INSIDE THE END POST OF THE FIRST FENCE.
 2. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
 3. DRIVE BOTH POSTS A MINIMUM OF 18 INCHES INTO THE GROUND AND BURY THE FLAG.

IL URBAN MANUAL IL-620B

11 SILT FENCE FASTENING
NOT TO SCALE

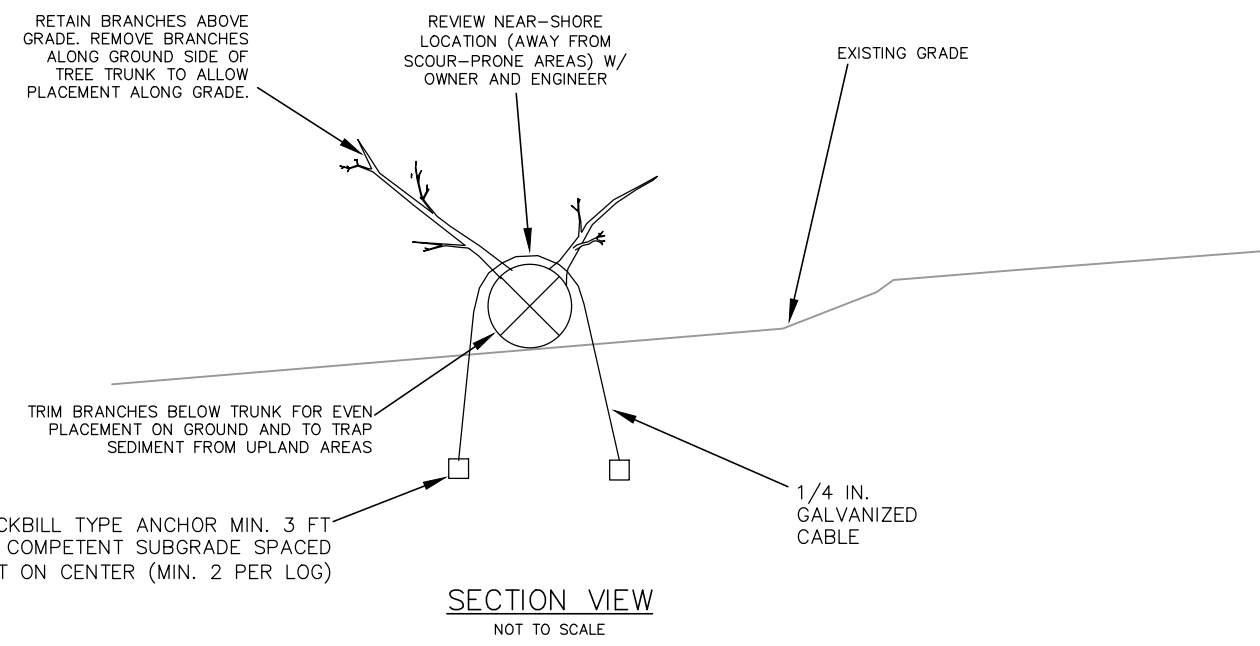


INSTALLATION

1. PROTECT EXIST. INLET PIPE AND FES.
2. INSTALL FILTER FABRIC BELOW ROCK IN ALL AREAS. FIRMLY TAMP SOILS ALONG TOP OF FOUNDATION.
3. INSTALL IMPORTED ROCK AS INDICATED (THICKNESS MIN. 1.5 FT IN ALL AREAS) BELOW TOP OF APRON.
4. DEPRESS CENTRAL FLOW PATH OF APRON TYP. 6-IN. TO CONCENTRATE FLOW IN CENTER OF ROCK APRON.
5. RESTORE DISTURBED AREAS PER PLANS AND SPECIFICATIONS.

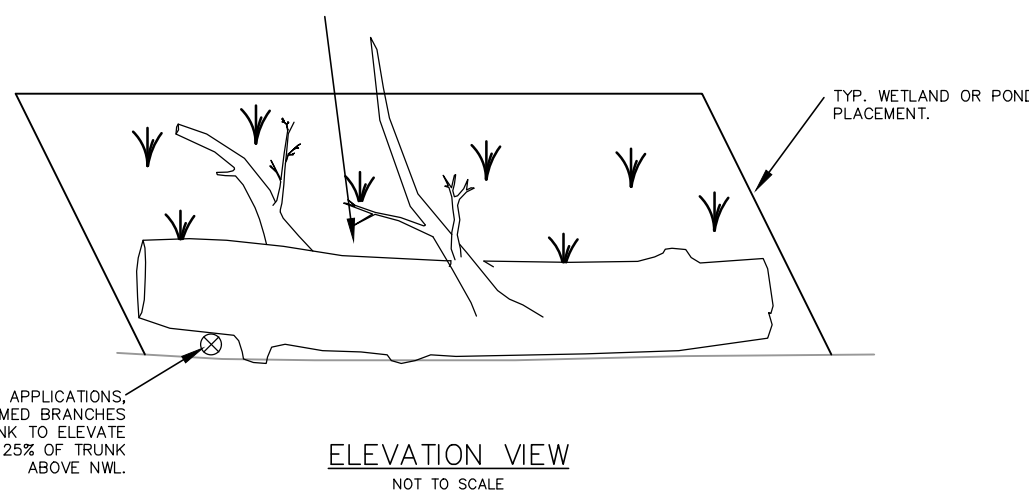
ROCK TYPES:
DOT SIZE GRADATIONS:
SEE BID LIST DESCRIPTION PER
LOCATION(S) OF STORM PIPE INLETS.

13 ROCK APRON PROTECTION AT STORM PIPE INLET
NOT TO SCALE

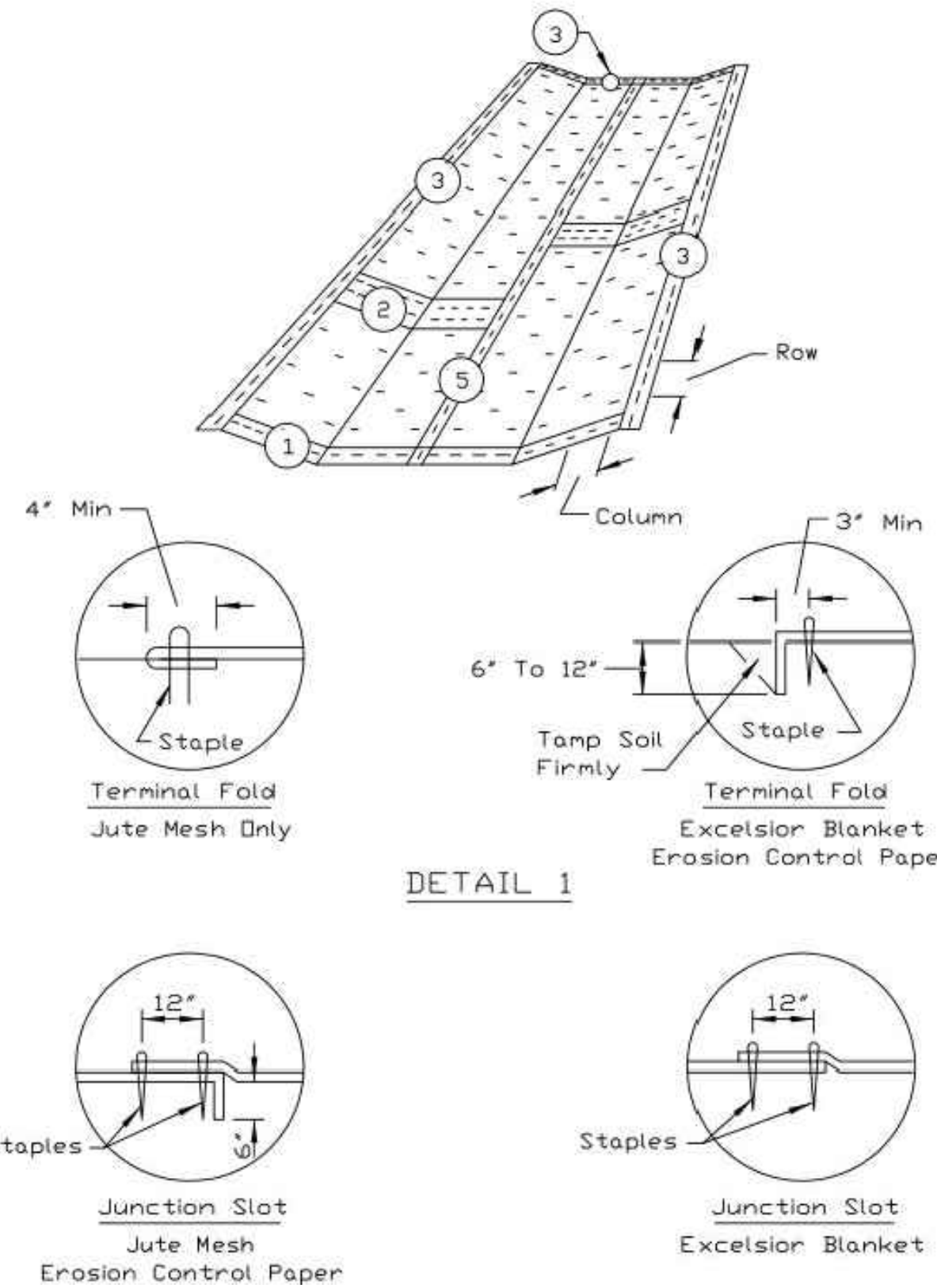


1. LOG CONTACT WITH GROUND SHALL OCCUR TO THE EXTENT PRACTICABLE (SEE NOTES ON TRIMMING BRANCHES ALONG GROUND SIDE OF TRUNK).
2. REVIEW PROPOSED LOG LOCATION W/ OWNER AND ENGINEER. LOCATE NEAR SHORELINE AND AWAY FROM SCOUR-PRONE AREAS, SUCH AS WETLAND OR POND LOCATIONS AWAY FROM SCOUR-PRONE AREAS. LOG SHALL HAVE MIN. 10 IN. DIAMETER TRUNKS AND MIN. 18 FT LENGTH. LOGS SHALL BE SOUND AND FREE OF ADVANCED DECAY. KEEP TRUNK LENGTH AS LONG AS PRACTICABLE FOR NATURAL APPEARANCE.
3. PLACE 1/4 IN. GALVANIZED CABLE FASTENED TO TWO DUCKBILL ANCHORS (OR EQUAL) SPACED APPROX. 12 FT. ON CENTER TO FASTEN TREE TRUNKS IN LOCATIONS SHOWN ON PLANS. EACH TREE TRUNK SHALL HAVE A MIN. 2 FASTENER CABLES EACH ANCHORED 3 FT. INTO THE SUBGRADE.

REVIEW LOCATIONS AND ORIENTATION W/ ENGINEER AND OWNER PRIOR TO PLACEMENT

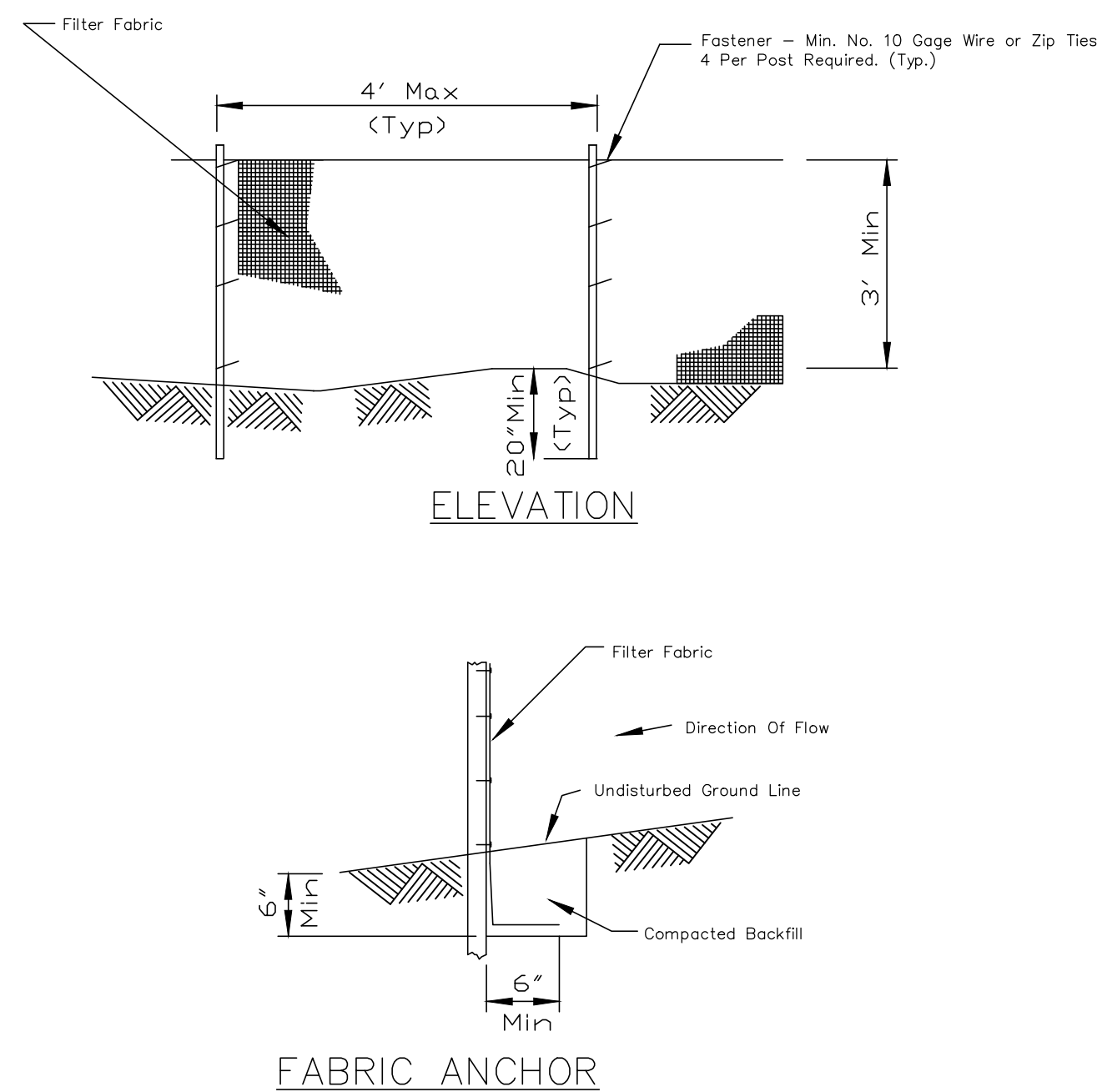


8 CABLED LOG HABITAT STRUCTURE
NOT TO SCALE



IL URBAN MANUAL IL-530

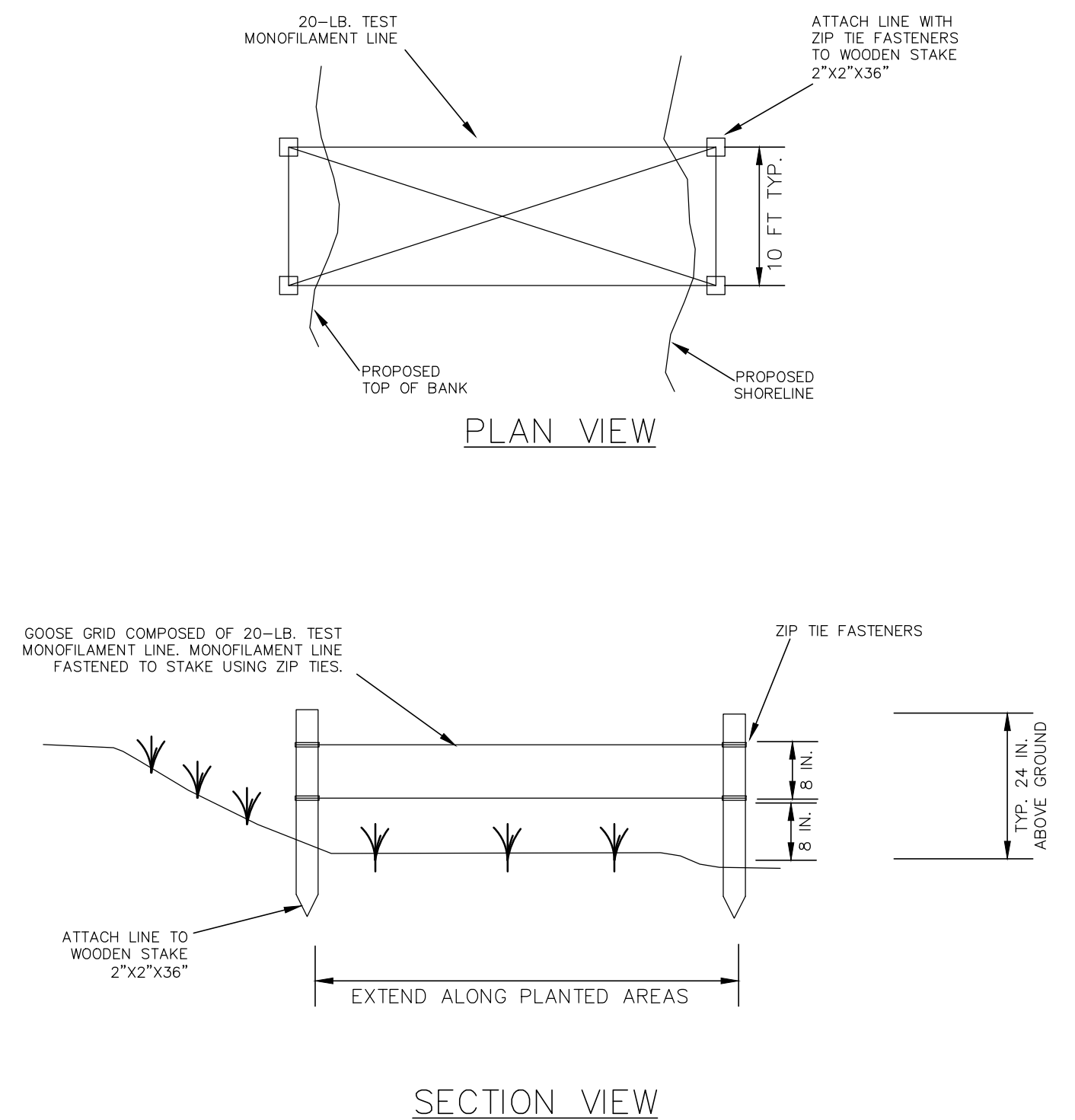
10 EROSION BLANKET
NOT TO SCALE



- NOTES:
1. TEMPORARY SEDIMENT FENCE SHALL BE INSTALLED PRIOR TO ANY GRADING WORK IN THE AREA TO BE PROTECTED. THEY SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
 2. FILTER FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION AASHTO M288 WITH MIN. AVG. ROLL VALUES (MARV) OF EITHER 90 LB. FORCE BEFORE THE FABRIC TEARS FOR WIRE-BACKED SILT FENCE, OR 124-LB. FORCE WITH MACHINE DIRECTION, OR 101-LB. FORCE PERPENDICULAR TO THE MACHINE DIRECTION. MARV PERMITTIVITY SHALL MEET ASTM D4919 0.05 / SEC. APPARENT OPENING SIZE SHALL MEET ASTM D4751 MARV 0.024 INCHES. UV STABILITY SHALL MEET ASTM D4355 70% RETAINED STRENGTH AFTER 500 HOURS OF EXPOSURE.
 3. POST SPACING SHALL BE MAX. 4-FT WITH WIRE-BACKED SILT FENCE OR WITH UNSUPPORTED ELONGATION >= 50%.
 4. FENCE POSTS SHALL BE EITHER HARDWOOD MIN. 1.2-IN. X 1.2-IN. SQUARE OR STEEL WITH MIN. 20-IN. DEPTH BELOW GRADE AND 3-FT ABOVE GRADE.

SILT FENCE SHALL MEET AASHTO M288 STANDARDS AND
IL URBAN MANUAL IL-620A, WHICHEVER IS MORE RESTRICTIVE

12 SILT FENCE
NOT TO SCALE



- NOTES:
1. PER THE SPECIAL PROVISIONS, THE COST OF GOOSE GRID, IF REQUIRED, SHALL BE INCIDENTAL TO THE COST OF NATIVE PLANT PLUGS.

14 GOOSE GRID
NOT TO SCALE

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SHEET 6: DETAILS
COMMUNITY PARK POND RESTORATION PROJECT
925 GRAND CANYON PARKWAY
VILLAGE OF HOFFMAN ESTATES, ILLINOIS



COMMUNITY PARK POND
RESTORATION PROJECT



NONPOINT SOURCE WATER POLLUTION CONTROL PROGRAM
Best management practices are being installed to improve the water quality of the Community Park Pond and Salt Creek watersheds.

Funded in part under Section 319
of the Federal Clean Water Act
Grant Number: 532-60-0376
FAA Number: 3192404

For more information contact:
Illinois EPA at (217) 782-3362, or
Engineering Division, Village of
Hoffman Estates at (847) 252-5800

- NOTES:
- 1. PRIOR TO FABRICATION, CONTRACTOR SHALL CONTACT ENGINEER TO OBTAIN IMAGE FILES.
 - 2. PROJECT SIGN DIMENSIONS 2-FT X 4-FT.
 - 3. MATERIAL = ALUMINUM BACKING.
 - 4. INSTALLATION = POSTS INSTALLED IN GROUND.
 - 5. LOCATION = COORDINATE WITH ENGINEER.
 - 6. COLORS:
 - PMS 109 Yellow
 - PMS 347 Green
 - PMS 361 Green
 - PMS 297 Blue
 - PMS 300 Blue
 - Reflex Blue
 - Black

16 PROJECT SIGN
NOT TO SCALE

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SHEET 6-B: DETAILS
COMMUNITY PARK POND RESTORATION PROJECT
925 GRAND CANYON PARKWAY
VILLAGE OF HOFFMAN ESTATES, ILLINOIS

SPECIFICATIONS

EXCEPT AS SPECIFICALLY DESCRIBED BELOW, THE FOLLOWING "STANDARD SPECIFICATIONS," LATEST EDITIONS, SHALL GOVERN THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS:

1. THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S (IDOT) "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ALONG WITH "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS"
2. STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS; AND
3. WATERSHED MANAGEMENT ORDINANCE OF THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO, CURRENT EDITION.
4. ILLINOIS URBAN MANUAL.

IN CASE OF CONFLICT WITH ANY PART OF PARTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS DESCRIBED BELOW SHALL TAKE PRECEDENCE AND SHALL GOVERN.

DESCRIPTION OF WORK

THE WORK SHALL CONSIST OF POND SHORELINE STABILIZATION, GRADING OF SHORELINE SLOPES, STUMP REMOVAL, OUTLET MODIFICATION FOR PURPOSE OF CONVERTING DEGRADED DETENTION BASIN INTO RESTORED STREAM CHANNEL WITH WETLAND HABITAT, NATIVE PLANT SEEDING, FURNISHING AND INSTALLING LIVE PLANT MATERIALS, AND OTHER ITEMS AS LISTED ON PROJECT PLANS. THE FOLLOWING ARE THE SPECIFICATIONS. CONTRACTOR SHALL INCLUDE ALL EXCAVATION AND BACKFILL HANDLING, HAULING, STOCKPILING, TOPSOIL RE-SPREAD, TREE REMOVAL, DISPOSAL OF CUT TREES, SHRUBS OR DEBRIS, AND/OR OTHER ACTIVITIES REQUIRED TO COMPLETE THE PROJECT IN THE RESPECTIVE BID ITEMS REQUIRING SAID WORK. ANY IMPORTED TOPSOIL SHALL BE FREE FROM LARGE ROOTS, STICKS, WEEDS, BRUSH, STONES LARGER THAN ONE INCH DIAM. OR OTHER LITTER OR WASTE. FAILURE TO EXERCISE PROPER STOCKPILING OR EARTHWORK OPERATIONS SHALL NOT CONSTITUTE CLAIM FOR ADDITIONAL COMPENSATION. NO MATERIAL SHALL BE STOCKPILED IN DRAINAGE SWALES, UTILITY AREAS, OR IN THE RIGHT-OF-WAY. SURFACE VEGETATION, TOPSOIL, AND UNSUITABLE SOFT SOILS SHALL BE STRIPPED FROM AREAS TO RECEIVE FILL. CONTRACTOR IS RESPONSIBLE FOR RESTORATION OF ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. THERE

5. SHORELINE NATIVE PLANT PLUG SPECIES LIST:

TYPICAL INSTALLATION OF SHORELINE NATIVE PLANT PLUGS SHALL OCCUR ALONG SHORELINES OR STREAMBANKS FROM -0.25 TO +0.75 FT VERTICAL DISTANCE FROM NORMAL WATER LEVEL. THE TYPICAL DENSITY SHALL INCLUDE MIN. ONE (1) NATIVE PLANT PLUG PER 1 LINEAR FOOT OF SHORELINE. SEE PLANS FOR DENSITIES.

SHORELINE NATIVE PLANT PLUG SPECIES LIST (#)

SCIENTIFIC NAME	COMMON NAME	PERCENT OF TOTAL
ACORUS CALAMUS	SWEET FLAG	4%
ASCLEPIAS INCARNATA	SWAMP MILKWEED	10%
CAREX COMOSA	CRISTLY SEDGE	23%
CAREX EMORYII	RIVERBANK TUSsock SEDGE	4%
CAREX GRANULARIS	MEADOW SEDGE	3%
CAREX HETEROPHILLOIDES	PORCUPINE SEDGE	1%
CAREX SPARGANOIDES	BURRED SEDGE	1%
CAREX STIPATA	COMMON FOX SEDGE	6%
CAREX TRIBULOIDES	POINTED OVAL SEDGE	1%
CAREX VULPINOIDEA	FOX SEDGE	23%
IRIS VIRGINICA SHREVEI	BLUE FLAG IRIS	26%
JUNCUS TORREYI	TORREY'S RUSH	4%
SCIRPUS PUNGENS	WOOL GRASS	5%
		100%

6. MIDDLE / UPPER BANK NATIVE PLANT PLUGS: SHALL INSTALLED ALONG STREAMBANKS ABOVE THE SHORELINE SEDD FROM 0.75 FT ABOVE NWL EXTENDING BEYOND THE TOP OF BANK. SEE PLANS FOR DENSITIES.

MIDDLE / UPPER BANK PLANT PLUG SPECIES LIST (#)

IT IS THE INTENT OF THESE SPECIFICATIONS THAT CLEAN-UP AND FINAL RESTORATION SHALL BE PERFORMED IMMEDIATELY UPON COMPLETION OF EACH PHASE OF THE WORK OR WHEN SO DIRECTED BY THE ENGINEER SO THAT THESE AREAS WILL BE RESTORED AS NEARLY AS POSSIBLE TO THEIR ORIGINAL CONDITIONS OR BETTER, AND SHALL INCLUDE BUT NOT LIMITED TO RESTORATION OF MAINTAINED LAWNS AND RIGHTS-OF-WAY, ROADWAYS, DRIVEWAYS, SIDEWALKS, DITCHES, BUSHES, HEDGES, TREES, SHRUBS, FENCES, MAILBOXES, SEWERS, DRAINS, TILES, WATER MAINS, B-BOXES, ETC.

EXCAVATION SPECIFICATIONS

I. EXCAVATION AND GRADING

A. STANDARDS

ALL SITE CLEARING, TOPSOIL, EXCAVATION, EMBANKMENT, GRADING, COMPACTION, SUBGRADE / SUBBASE PREPARATION, AND ALL OTHER WORK HEREIN CONTEMPLATED SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS, LATEST EDITION, AND THE CURRENT VILLAGE DEVELOPMENT REGULATIONS, EXCEPT THAT PAYMENT WILL BE DEFINED AS DETAILED IN THE CONTRACT DOCUMENTS. ACCORDINGLY, THE FOLLOWING SPECIFICATIONS ARE CITED WITH EXCEPTIONS AS NOTED:

- 1. CLEARING, TREE REMOVAL, & HEDGE REMOVAL SECTION 201
- 2. EARTH AND ROCK EXCAVATION SECTION 202
- 3. EMBANKMENT SECTION 205
- 4. POROUS GRANULAR EMBANKMENT SECTION 206
- 5. SUBGRADE SECTION 301
- 6. TOPSOIL AND COMPOST SECTION 211
- 7. FINAL SHAPING, TRIMMING AND FINISHING SECTION 212
- 8. SEEDING SECTION 250
- 9. SOD SECTION 252

B. GENERAL

1. EARTHWORK CALCULATIONS AND CROSS SECTIONS

THE CONTRACTOR UNDERSTANDS THAT ANY EARTHWORK CALCULATIONS, QUANTITIES OR CROSS SECTIONS THAT HAVE BEEN FURNISHED BY THE ENGINEER ARE FOR INFORMATION ONLY AND ARE PROVIDED WITHOUT ANY GUARANTEE BY THE ENGINEER WHATSOEVER AS TO THEIR SUFFICIENCY OR ACCURACY. CONTRACTOR WARRANTS THAT HE HAS PREPARED HIS OWN CALCULATIONS AND CROSS SECTIONS TO DETERMINE EARTHWORK VOLUMES NEEDED TO PREPARE HIS PROPOSAL AND PRICES HEREIN ARE REPRESENTED BY THE CONTRACTOR AS COVERING ALL COSTS TO THE ENGINEER FOR THE WORK.

2. WORK LIMITS

THE CONTRACTOR, HIS AGENTS AND EMPLOYEES AND THEIR EMPLOYEES AND THEIR EQUIPMENT, MACHINERY AND VEHICLES SHALL CONFINED THEIR WORK WITHIN THE BOUNDARIES OF THE PROJECT AND SHALL BE SOLELY LIABLE FOR DAMAGE CAUSED BY THEIR EQUIPMENT, MACHINERY AND VEHICLES ON ADJACENT PROPERTY.

C EXCAVATION AND EMBANKMENT

1. TOPSOIL RESPREAD

UPON COMPLETION OF IMPROVEMENTS AND INSTALLATION, A MINIMUM SIX INCHES (6") OF TOPSOIL SHALL RESPREAD FOR ALL LANDSCAPED AREAS WHICH ARE DISTURBED BY EARTHWORK CONSTRUCTION. THE CONTRACTOR THEREFORE MAY PLACE TEMPORARY STOCKPILES OF TOPSOIL IN LOCATIONS APPROVED BY THE ENGINEER THAT WILL FACILITATE THE RESPREAD OF TOPSOIL IN NO CASE SHALL TEMPORARY SOIL STOCKPILES REMAIN FOR LONGER THAN 7 DAYS. ONLY THE BEST QUALITY TOPSOIL SHALL BE USED FOR TOPSOIL RESPREAD.

2. EXCAVATION AND EMBANKMENT

ALL EXCAVATION AND EMBANKMENTS SHALL BE COMPLETED IN ACCORDANCE WITH SECTIONS 202, 203, 204, 205, AND 206 AND AS SHOWN ON THE PLANS. ALL SUITABLE EXCAVATED MATERIALS SHALL BE HAULED, PLACED, AND COMPACTED IN THE EMBANKMENT AREAS IN ACCORDANCE WITH THE PLANS AND SECTION 206. THE CONTRACTOR SHALL INCLUDE ALL DEWATERING, TEMPORARY DITCHING AND CULVERTS NECESSARY TO COMPLETE THE EXCAVATION AND EMBANKMENTS.

SPECIFICALLY INCLUDED IN THE COST OF EXCAVATION AND EMBANKMENTS IS GRADING AND SHAPING OF ALL CUT OR FILL AREAS SUCH AS CROWNING ROADWAY SUBGRADE AND ALL WORK REQUIRED TO PROVIDE POSITIVE DRAINAGE AT THE END OF EACH WORKING DAY AND UPON COMPLETION OF A SECTION.

THE EXCAVATION CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF UTILITY AND FOUNDATION SPOIL. ALL UNSUITABLE MATERIALS ENCOUNTERED ABOVE THE PROPOSED SUBGRADE ELEVATIONS SHALL BE EXCAVATED AND REMOVED FROM THE PROJECT AREA TO AN OFFSITE LOCATION OF THE CONTRACTOR'S CHOICE.

A SOILS TESTING FIRM EMPLOYED BY THE ENGINEER SHALL DETERMINE WHICH SOILS ARE UNSUITABLE.

GOOD EROSION CONTROL PRACTICES SHALL BE MAINTAINED IN ACCORDANCE WITH THE ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL, AND THE VILLAGE OF WOODRIDGE BY THE EXCAVATION AND ROADWAY CONTRACTORS. THIS CONTRACTOR SHALL:

- (A) STOCKPILE TOPSOIL OUTSIDE OF ANY WATER COURSE.
- (B) CONSTRUCT DITCHES AND TOPSOIL AND SEED IMMEDIATELY IF NECESSARY.
- (C) INSTALL BARRIER FILTERS AT ALL ENTRANCES TO DETENTION AREAS, CULVERTS, AND STORM SEWER INLETS. THESE FILTERS SHALL BE MAINTAINED AND SILT ACCUMULATIONS REGULARLY REMOVED TO THE SATISFACTION OF THE ENGINEER.
- (D) MAINTAIN NEW AND EXISTING GRASS COVER WHERE POSSIBLE.
- (E) HEAVY EQUIPMENT SHALL BE CONFINED TO SPECIFIC WORK AREAS DURING EACH PHASE OF CONSTRUCTION.
- (F) REMOVE ANY MUD OR DEBRIS TRACKED ONTO ROADWAYS ADJACENT TO THE SITE DUE TO CONSTRUCTION OPERATIONS.
- (G) PROVIDE DUST CONTROL TO THE SATISFACTION OF THE ENGINEER.

II. UNDERGROUND IMPROVEMENTS

A. GENERAL

1. STANDARDS

ALL UNDERGROUND IMPROVEMENTS SHALL BE CONSTRUCTED WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION, VILLAGE DEVELOPMENT REGULATIONS, CURRENT EDITION, STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS, LATEST EDITION.

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