

GENERAL STRUCTURAL NOTES

- ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS, FOR ROAD AND BRIDGE CONSTRUCTION, CONSTRUCTION PLANS AND SUBSEQUENT DETAILS ARE ALL TO BE CONSIDERED AS PART OF THE CONTRACT. INCIDENTAL ITEMS OR ACCESSORIES NECESSARY TO COMPLETE THIS WORK MAY NOT BE SPECIFICALLY NOTED BUT ARE CONSIDERED A PART OF THIS CONTRACT.
- THE ENGINEER WILL NOT ASSUME ANY OF THE RESPONSIBILITIES OF THE CONTRACTORS. ADDITIONALLY THE ENGINEER WILL NOT ADVISE, OR ISSUE DIRECTIONS CONCERNING ANY ASPECTS OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES OR SAFETY PRECAUTIONS AND/OR PROGRAMS IN CONNECTION WITH WORK.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK WITH THE ACTUAL CONDITIONS. IF THERE ARE DISCREPANCIES BETWEEN THE JOB SITE AND WHAT IS SHOWN ON THE CONSTRUCTION PLANS, HE MUST IMMEDIATELY REPORT TO ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE PLANS AND EXISTING CONDITIONS AND/OR DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTION FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. IN FAILING TO SECURE SUCH INSTRUCTION, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTIONS ARISING WITH RESPECT TO THE TRUE MEANING OF THE CONSTRUCTION PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- THE EXCAVATION AND WORK AREA SHALL BE PROPERLY DRAINED AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL VERIFY ALL TOPOGRAPHIC INFORMATION AND GRADE ELEVATIONS ADJACENT TO THE WALLS PRIOR TO PROCEEDING AND INFORM ENGINEER OF ANY VARIATION.

CONSTRUCTION

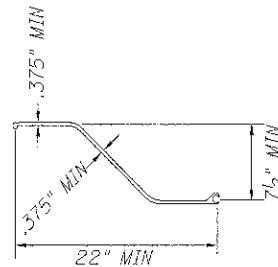
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2012, AND LATEST SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, UNLESS NOTED OTHERWISE.
- DO NOT SCALE DIMENSIONS FOR CONSTRUCTION. SCALE, IF SHOWN, APPLIES ONLY TO FULL SIZE DRAWINGS.
- ANY INFORMATION CONCERNING TYPE OR LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF THE UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR SHALL CALL J.U.L.I.E. AND THE CITY OF NAPERVILLE 2 WORKING DAYS PRIOR TO EXCAVATION.
- SHOP, WORKING OR LAYOUT DRAWINGS PERTAINING TO THE CONSTRUCTION OF THE WORK, AS MAY BE REQUIRED, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION.
- UPON COMPLETION, THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS AND EXCESS MATERIAL FROM THE SITE. DAMAGED TREES, SHRUBS, AND OTHER LANDSCAPE FEATURES RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE REPLACED OR REPAIRED.

FOUNDATION NOTES

- FOR BORING LOCATIONS, LOGS AND FOUNDATION REPORT, SEE SOIL REPORT PREPARED BY TESTING SERVICE CORPORATION (TSC) REPORT NO. L-78,238, DATED JULY 24, 2012.

**DESIGN STRESSES
FIELD UNITS**

Fy = 38,500 psi (Permanent Steel Sheet Piling)
Fy = 36,000 psi (Channel Cap, Angle Brace)
Fy = 46,000 psi (Tube Brace)

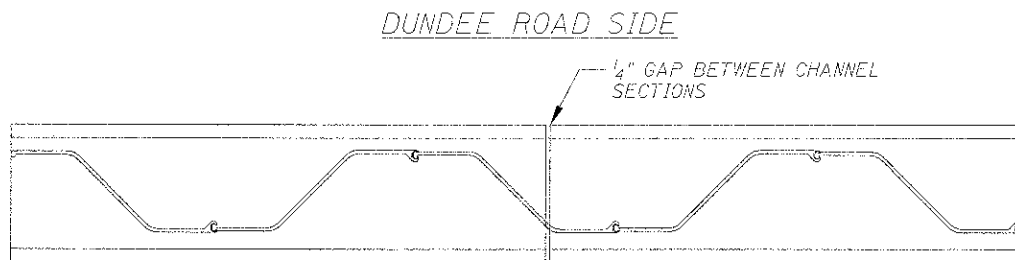


MINIMUM SZ 15 SECTION PROPERTIES

SECTIONAL AREA - 4.75 SQ. IN. / WALL FT
MOMENT OF INERTIA, I_{X-X} - 41.7 IN⁴ / WALL FT
ELASTIC SECTION MODULUS, S_{X-X} - 10.9 IN³ / WALL FT
EFFECTIVE SECTION MODULUS - 6.6 IN³ / WALL FT

NOTE:

1.) THE CONTRACTOR SHALL BE ALLOWED TO SUBSTITUTE A SHEET PILE SECTION THAT MEETS OR EXCEEDS THE "EFFECTIVE SECTION MODULUS" OF 6.6 CUBIC INCHES PER FOOT. SEE SPECIAL PROVISION "PERMANENT STEEL SHEET PILING".

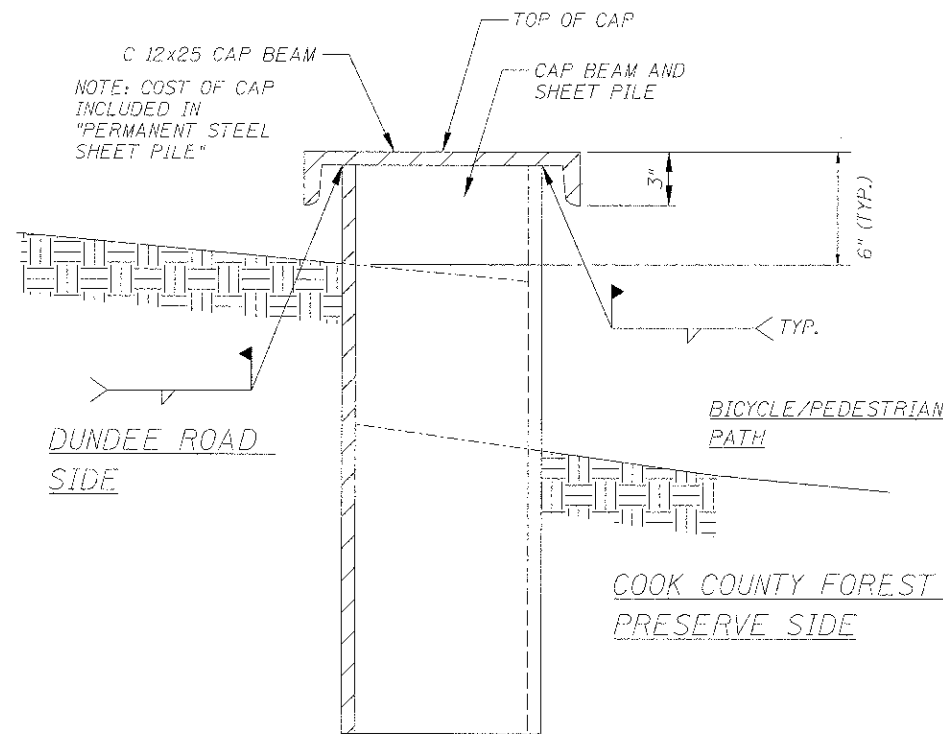


CAP BEAM - PLAN VIEW

SCALE: NOT TO SCALE

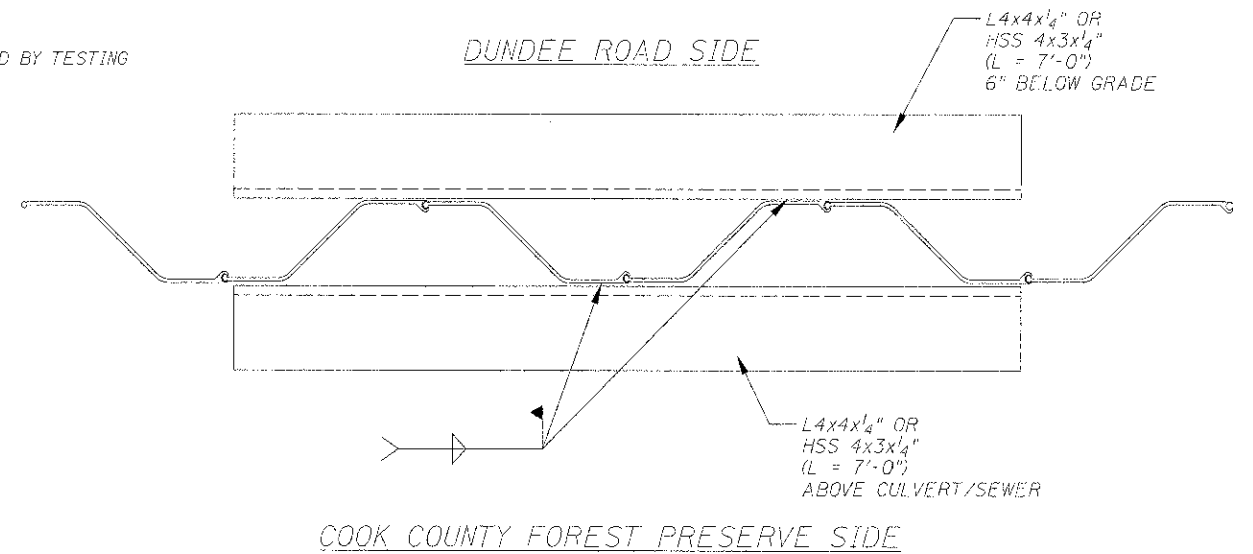
NOTES:

- CAP BEAM TO BE INSTALLED IN 20' LENGTHS.
- LEAVE 1/4" GAP BETWEEN ADJACENT LENGTHS OF CAP BEAM.
- SEE WALL ELEVATION FOR TOP AND BOTTOM OF WALL ELEVATIONS.

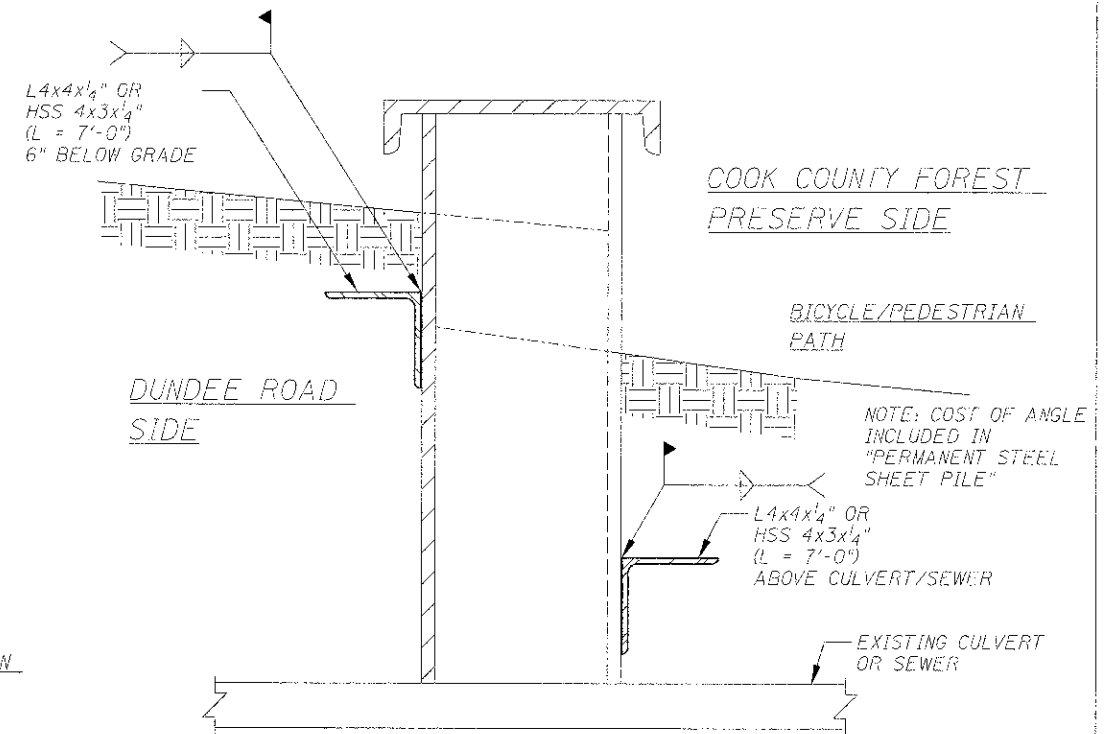


TYPICAL WALL SECTION

SCALE: NOT TO SCALE



**PLAN AT 36" BOX CULVERT
AND 10" RCP SEWER**



**SECTION AT 36" BOX CULVERT
AND 10" RCP SEWER**

NOTES:

- THE LOCATIONS OF THE 36" BOX CULVERT AND THE 10" RCP SEWER ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF THE UTILITIES PRIOR TO DRIVING SHEET PILING.
- ANY DAMAGE CAUSED TO THESE UTILITIES DURING CONSTRUCTION SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.



DATE:	DESIGNED: MM	REVISED:
	DRAWN: JMB	REVISED:
PLOT SCALE:	CHECKED: WJS	REVISED:
PLOT DATE:	DATE: 1/30/13	REVISED:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RETAINING WALL DETAILS

SCALE: AS SHOWN SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
343	10-00072-00-BT	COOK	39	21

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT FAP 343