

# CITY of LASALLE ILLINOIS

## CROSAT STREET

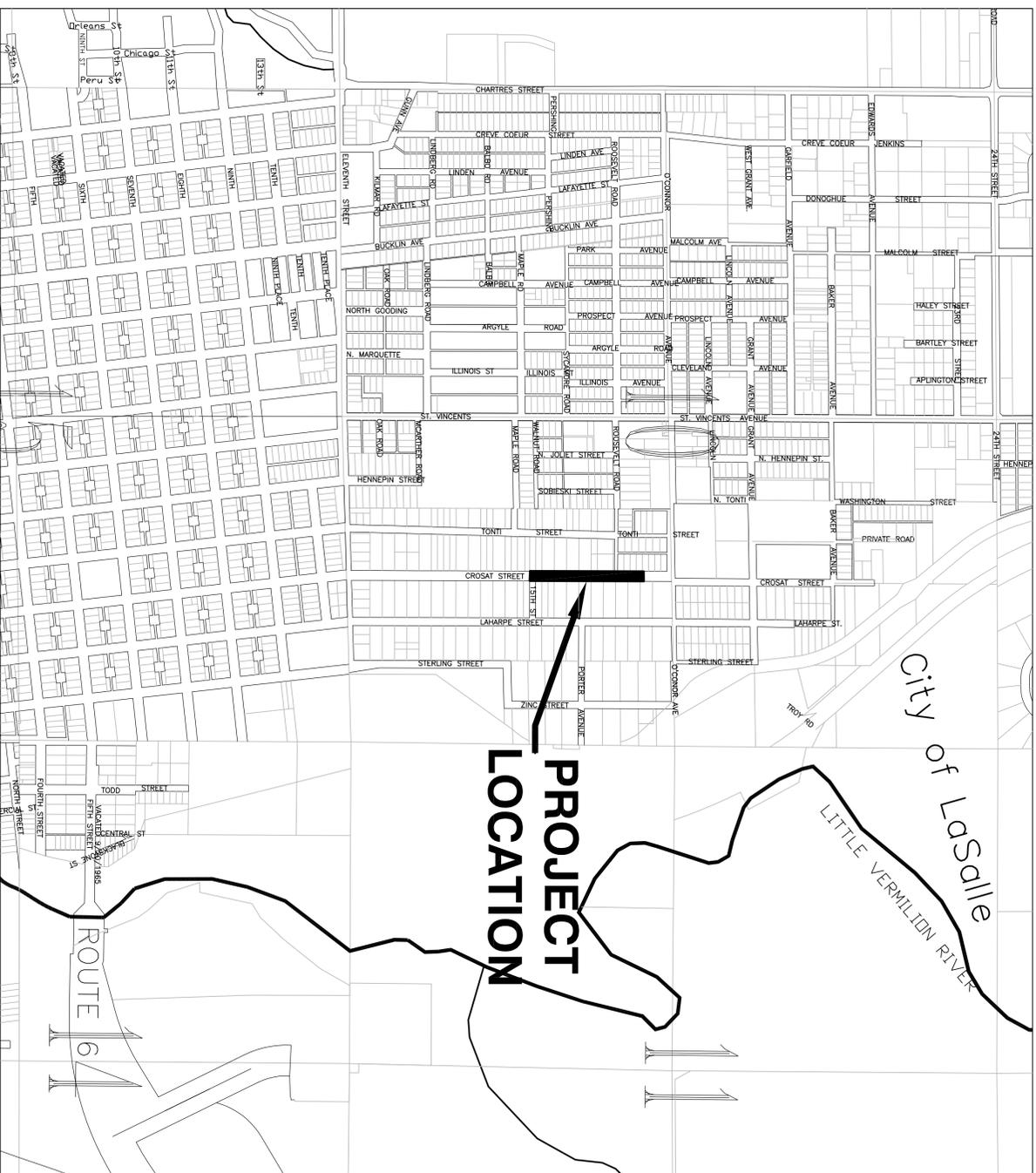
### STORM SEWER SEPARATION IMPROVEMENTS



#### INDEX OF SHEETS

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2. SUMMARY OF QUANTITIES & GENERAL NOTES
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LINE & SYMBOL LEGEND	
	<b>EXISTING</b>
	BUFFALO BOX
	FIRE HYDRANT
	VALVE
	VALVE BASIN
	SIGN
	CATCH BASIN
	INLET
	CATCH BASIN
	POWER POLE W/ LIGHT
	POWER POLE
	TREE
	BUSH / HEDGE
	CONTOUR MINOR
	CONTOUR MAJOR
	BUSH / HEDGE LINE
	CENTERLINE / BASELINE
	RIGHT OF WAY
	CHAIN LINK FENCE
	STORM SEWER
	SANITARY SEWER
	WATER MAIN
	OVERHEAD ELECTRIC
	BURIED TELEPHONE
	GAS MAIN
	<b>PROPOSED</b>
	BUFFALO BOX
	FIRE HYDRANT
	SIGN
	FLARED END SECTION
	INLET
	CATCH BASIN
	MANHOLE
	SPOT ELEVATION
	LOW POINT
	SUMMIT
	GRADE CHANGE
	STORM SEWER



**LOCATION MAP**  
SCALE: 1" = 600'

— INDICATES PROPOSED IMPROVEMENT

CITY of LASALLE ILLINOIS  
APPROVED \_\_\_\_\_  
20

PREPARED BY OR UNDER THE  
DIRECT SUPERVISION OF:

DATED THIS 30th DAY OF JANUARY, 2012



PREPARED BY:



ILLINOIS DESIGN FIRM REGISTRATION NO. 184001781  
PROJECT NO. 12-2228  
SHEET NO. 1 OF 6

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JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS  
(EXCLUDING NAT. SIGN & 100L)

Call: 811 OR 1-800-892-0123

**GENERAL NOTES**

NO.	ITEM DESCRIPTION	UNIT	TOTAL
1	TRENCH BACKFILL	CYD	302
2	TOPSOIL FURNISH AND PLACE, 4"	SOYD	731
3	SEEDING, CLASS 1A (SPECIAL)	SOYD	731
4	INLET FILTERS	EACH	6
5	STORM SEWERS, TYPE 1, REINFORCED CONCRETE, 12" WATERMAIN QUALITY	FOOT	1047
6	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	5
7	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	EACH	3
8	INLETS, TYPE B, TYPE 11 FRAME AND GRATE	EACH	3
9	REMOVING INLETS	EACH	6
10	CONNECT PROPOSED 12" PIPE TO EXISTING STRUCTURE	EACH	1
11	PAVEMENT REPLACEMENT	SOYD	71
12	COMBINATION CONCRETE CURB AND GUTTER REPLACEMENT	FOOT	80
13	PORTLAND CEMENT CONCRETE SIDEWALK REPLACEMENT	SOFT	3426
14	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT REPLACEMENT	SOYD	294
15	CONNECT EXISTING TILE TO PROPOSED STORM SEWER	EACH	1
16	WATER SERVICE REPAIR	EACH	2
17	PLUG EXISTING SEWER	EACH	6
18	REG-U-FLOW RESTRICTOR (FLOOR MOUNT)	EACH	3

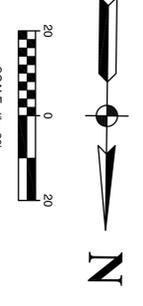
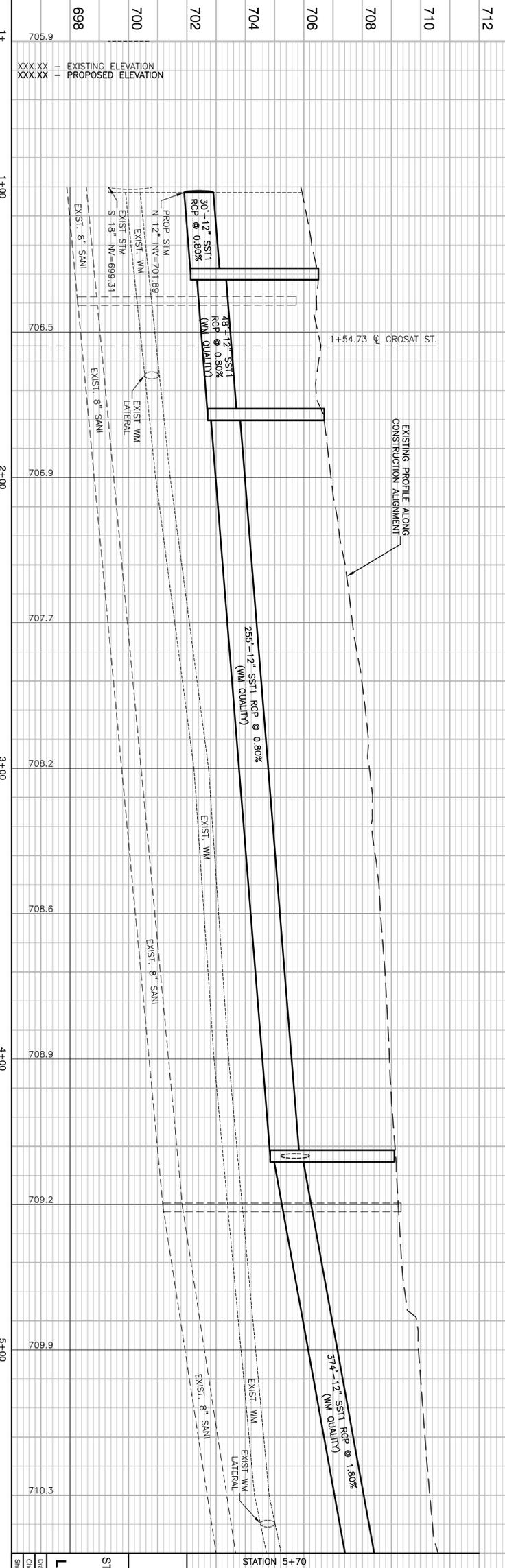
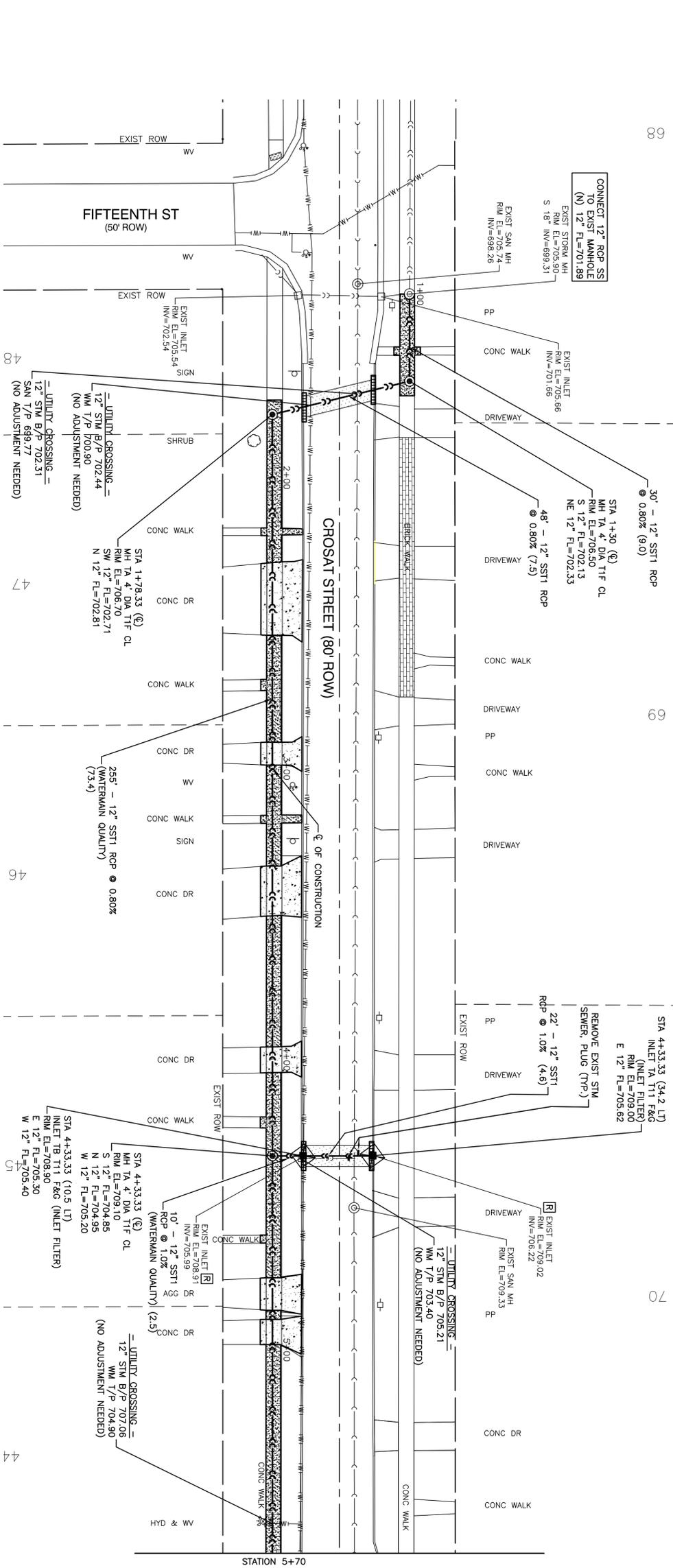
- ALL CONSTRUCTION SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED JANUARY 1, 2012 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND ALL AMENDMENTS THERETO, AND IN CONFORMANCE WITH THE "STANDARD SPECIFICATIONS FOR STRENGTHENING AND REPAIR OF BRIDGE STRUCTURES", PUBLISHED JULY 2009 AND IN ACCORDANCE WITH THE SPECIFICATIONS FOR CONSTRUCTION IN THE CITY OF LASALLE UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL STORM SEWER, SANITARY SEWER AND WATER MAIN CONSTRUCTION SHALL CONFORM TO THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", PUBLISHED JULY 2009, AND IN ACCORDANCE WITH THE SPECIFICATIONS FOR CONSTRUCTION IN THE CITY OF LASALLE UNLESS OTHERWISE NOTED ON THE PLANS.
- STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, 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 CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION AND SHALL ALSO BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. THE ENGINEER DOES NOT WARRANT THE LOCATION OF ANY EXISTING UTILITIES SHOWN ON THE PLAN. THE CONTRACTOR SHALL CALL UTILITY AT 800-892-0123 AND THE CITY OF LASALLE FOR UTILITY LOCATIONS.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE NATURE AND STATUS OF ALL UTILITY RELOCATION WORK PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS THAT CONSTRUCTION OPERATIONS DO NOT INTERFERE WITH UTILITY FACILITIES AND RELOCATION WORK SCHEDULE SHOULD REFLECT CONSTRUCTION SEQUENCING, WHICH COORDINATES WITH ALL UTILITY RELOCATION WORK. THE CONTRACTOR SHALL BE REQUIRED TO ADJUST THE ORDER OF ITS WORK FROM TIME TO TIME, TO COORDINATE SAME WITH UTILITY RELOCATION WORK, AND SHALL PREPARE REVISED SCHEDULE (S) IN COMPLIANCE THEREWITH AS DIRECTED BY THE OWNER. THE OWNER AND THE ENGINEER SHALL BE NOTIFIED IN WRITING BY THE CONTRACTOR AT LEAST 48 HOURS PRIOR TO THE START OF ANY OPERATION REQUIRED COOPERATION WITH OTHERS. ALL OTHER AGENCIES, UNLESS OTHERWISE NOTED, WILL BE NOTIFIED IN WRITING BY THE CONTRACTOR TEN (10) DAYS PRIOR TO THE START OF ANY SUCH OPERATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM OR ESTABLISH THE EXISTENCE OF ALL UTILITY FACILITIES AND THEIR EXACT LOCATIONS, WHETHER CONTRACTED OR UNCONTRACTED, AND TO PROTECT THEM FROM DAMAGE BY THE CONTRACTOR'S OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND EXPENSE IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE EXISTENCE OF UTILITY FACILITIES OR SPECIFICATIONS. THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- NOTIFICATION OF COMMENCING CONSTRUCTION
  - THE CONTRACTOR SHALL NOTIFY AFFECTED GOVERNMENTAL AGENCIES IN WRITING AT LEAST THREE FULL WORKING DAYS PRIOR TO COMMENCEMENT OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL NOTIFY AS NECESSARY ALL TESTING AGENCIES, THE CITY OF LASALLE, AND THE OWNER SUFFICIENTLY IN ADVANCE OF CONSTRUCTION.
  - FAILURE OF THE CONTRACTOR TO ALLOW PROPER NOTIFICATION TIME WHICH RESULTS IN THE TESTING COMPANIES TO BE UNABLE TO VISIT THE SITE AND PERFORM TESTING WILL CAUSE THE CONTRACTOR TO SUSPEND THE OPERATION TO BE TESTED UNTIL THE TESTING AGENCY CAN SCHEDULE TESTING OPERATIONS. COST OF SUSPENSION OF WORK SHALL BE BORNE BY CONTRACTOR.
  - ALL CONTRACTORS SHALL KEEP ACCESS AVAILABLE AT ALL TIMES FOR ALL TYPES OF TRAFFIC AS DIRECTED BY THE OWNER AND THE OWNER'S REPRESENTATIVE.
  - BEFORE COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL PHOTOGRAPH AND VIDEO DOCUMENT THE WORK AREA FOR THE PURPOSE OF DOCUMENTING EXISTING CONDITIONS. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
  - THE CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES UNTIL THEY ARE NO LONGER NEEDED. ANY STAKES DESTROYED OR DISTURBED BY THE CONTRACTOR PRIOR TO THEIR USE SHALL BE RESET BY THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
  - FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
  - REMOVAL OF SPECIFIED ITEMS, INCLUDING BUT NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB, CURB AND GUTTER, CULVERTS, ETC. SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. THE CONTRACTOR IS RESPONSIBLE FOR ANY PERMITS REQUIRED FOR SUCH DISPOSAL. THE REMOVAL SHALL BE ACCOMPLISHED BY MEANS OF A SAW CUT JOINT, AT THE DIRECTION OF THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE VARIOUS ITEMS.
  - ANY FIELD TILES ENCOUNTERED SHALL BE INSPECTED BY THE ENGINEER. THE GRAIN TILE SHALL BE CONNECTED TO THE STORM SEWER SYSTEM AND A RECORD KEPT BY THE CONTRACTOR OF THE LOCATIONS AND TURNED OVER TO THE ENGINEER UPON COMPLETION OF THE PROJECT.
  - ALL WORK PERFORMED UNDER THIS CONTRACT SHALL BE GUARANTEED BY THE CONTRACTOR AND HIS SURETY FOR 12 MONTHS FROM THE DATE OF FINAL ACCEPTANCE OF THIS PROJECT. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ALL DEFECTS IN MATERIALS AND WORKMANSHIP OF WHATEVER NATURE DURING THAT PERIOD.
  - OWNER SHALL OBTAIN EASEMENTS AND PERMITS NECESSARY TO FACILITATE CONSTRUCTION OF THE PROPOSED UTILITIES. THE CONTRACTOR, HOWEVER, SHALL FURNISH ALL REQUIRED BONDS AND EVIDENCE OF INSURANCE NECESSARY TO SECURE THESE PERMITS AND EASEMENTS.
  - THE CONTRACTORS SHALL PLAN THEIR WORK BASED ON THEIR OWN BORINGS, EXPLOERATIONS AND OBSERVATIONS TO DETERMINE SOIL CONDITIONS AT THE LOCATION OF THE PROPOSED WORK.
  - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR SAFETY ON THE JOB PER OSHA REGULATIONS.
  - IT SHALL BE THE CONTRACTORS SOLE RESPONSIBILITY TO PROVIDE PROPER BARRICADING, WARNING DEVICES AND INSTALLATION OF TRAFFIC WITHIN THE AREA OF CONSTRUCTION. ALL SUCH DEVICES AND THEIR INSTALLATION SHALL CONFORM TO THE "ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREET AND HIGHWAYS", LATEST EDITION, THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND IN ACCORDANCE WITH THE CITY OF LASALLE ORDINANCES.
  - THE CONTRACTOR SHALL COLLECT AND REMOVE ALL CONSTRUCTION DEBRIS, EXCESS MATERIALS, TRASH, OIL AND GREASE RESIDUE, MACHINERY TOOLS AND OTHER MISCELLANEOUS ITEMS WHICH WERE NOT PRESENT PRIOR TO PROJECT COMMENCEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE HAULING AND DISPOSAL FOR CLEAN-UP AS DIRECTED BY THE ENGINEER OR OWNER. BURNING ON THE SITE IS NOT PERMITTED.
  - NO UNDERGROUND WORK SHALL BE COVERED UNTIL IT HAS BEEN APPROVED BY THE ENGINEER AND THE CITY OF LASALLE. APPROVAL TO PROCEED MUST BE OBTAINED FROM THE CITY OF LASALLE PRIOR TO INSTALLING PAVEMENT BASE, BINDER, SURFACE AND PRIOR TO POURING ANY CONCRETE AFTER FORMS HAVE BEEN SET.
  - AT THE CLOSE OF EACH WORKING DAY AND AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES AND FLOW LINES SHALL BE FREE FROM DIRT AND DEBRIS.
  - IF SOFT, SPONGY OR OTHER UNSUITABLE SOILS WITH UNCONFINED COMPRESSIVE STRENGTH LESS THAN 0.5 TSF ARE ENCOUNTERED AT THE BOTTOM OF THE TRENCH, ALL SUCH MATERIAL SHALL BE REMOVED AND REPLACED WITH WELL COMPACTED CRUSHED LIMESTONE BEDDING MATERIAL. IF ROCK IS ENCOUNTERED, IT SHALL BE REMOVED TO AT LEAST SIX (6) INCHES BELOW THE BOTTOM OF THE PIPE TO ALLOW PROPER THICKNESS OF BEDDING ANY UNDERCUTS OF TWO (2) FEET OR LESS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. DEPTHS GREATER THAN TWO (2) FEET SHALL BE PAID FOR ON A UNIT PRICE.

- EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH "ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL" AND SHALL BE MAINTAINED BY THE CONTRACTOR AND REMAIN IN PLACE UNTIL A SUITABLE GROWTH OF GRASS, ACCEPTABLE TO THE ENGINEER, HAS DEVELOPED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL ITEMS REQUIRED FOR CONSTRUCTION OF THE PROJECT, AS SHOWN ON THE PLANS ARE INCLUDED IN THE CONTRACT. ANY ITEM NOT SPECIFICALLY INCLUDED IN THE CONTRACT, BUT SHOWN ON THE PLANS, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN THE EVENT OF A DISCREPANCY WITH THE PLANS AND QUANTITIES.
- CONSTRUCTION MATERIALS AND/OR EQUIPMENT MAY NOT BE STORED IN THE RIGHT-OF-WAY WITHOUT THE APPROVAL OF THE CITY OF LASALLE.

**STORM SEWER NOTES**

- STORM SEWER PIPE: ALL STORM SEWER PIPE SHALL BE RCP, UNLESS OTHERWISE NOTED ON THE PLANS, IN ACCORDANCE WITH THE FOLLOWING:  
RCP: REINFORCED CONCRETE PIPE (ASTM C-76) W/ GASKETED JOINTS  
TYPE 1, CLASS IV PER SBRM SECTION 505.
- "BAND SEAL" OR SIMILAR COUPLINGS SHALL BE USED WHEN JOINING SEWER PIPES OF DISSIMILAR MATERIALS.
- BEDDING: ALL STORM SEWERS SHALL BE INSTALLED ON A TYPE A GRANULAR BEDDING, ¼" TO 1" IN SIZE (CA-7) WITH A MINIMUM THICKNESS EQUAL TO ¾ THE OUTSIDE DIAMETER OF THE SEWER PIPE BUT NOT LESS THAN 4". BLOCKING OF ANY KIND FOR GRADE IS NOT PERMITTED. THE BEDDING MATERIALS SHALL BE COMPACTED TO 90% OF MODIFIED PROCTOR DENSITY. BEDDING SHALL EXTEND TO THE SPRINGLINE OF THE PIPE.
- CONSTRUCTION: ALL STORM SEWERS ARE TO BE CONSTRUCTED USING A USER INSTRUMENT TO MAINTAIN LINE AND GRADE.
- COVER: THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE (1) FOOT OF COVER OVER THE TOP OF SHALLOW PIPES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL MOUND OVER ANY PIPES WHICH HAVE LESS THAN ONE (1) FOOT OF COVER DURING CONSTRUCTION UNTIL THE AREA IS FINAL GRADED OR PAVED.
- ALL TRENCHES BENEATH PROPOSED OR EXISTING UTILITIES, PAVEMENTS, ROADWAYS, SIDEWALKS AND FOR A DISTANCE OF TWO (2) FEET ON EITHER SIDE OF SAME, AND/OR WHERE SHOWN ON THE PLANS, SHALL BE BACKFILLED WITH SELECT GRANULAR BACKFILL, CA-7 OR CA-6 AND THOROUGHLY MECHANICALLY COMPACTED IN 9" THICK (LOOSE MEASUREMENT) LAYERS. JETTING WITH WATER IS NOT PERMITTED. TRENCH BACKFILL SHALL BE MEASURED ACCORDING TO SECTION 208.03 OF THE STANDARD SPECIFICATIONS.
- STRUCTURES: MANHOLE, CATCH BASIN AND INLET BOTTOMS SHALL BE PRECAST CONCRETE SECTIONAL UNITS OR MONOLITHIC CONCRETE. STRUCTURE JOINTS SHALL BE SEALED WITH O-RING OR BUTY ROPE. A MAXIMUM OF TWELVE (12) INCHES OF ADJUSTING RINGS SHALL BE USED, UNLESS OTHERWISE STATED ON THE PLANS.
- A CONCRETE BENCH TO DIRECT FLOWS SHALL BE CONSTRUCTED IN THE BOTTOM OF ALL INLETS AND MANHOLES. BENCHES SHALL HAVE GENTLE BENDS TO ALLOW THE CITY SEWER CAMERA ENTER THE STORM SEWER SYSTEM.
- THE FRAME, GRADE, AND/OR CLOSED LID SHALL BE CAST IRON OF THE STYLE SHOWN ON THE PLANS.
- MANHOLE LIDS SHALL BE MACHINE SURFACED, NON-ROCKING DESIGN. THE CLOSED LIDS SHALL HAVE THE WORD "STORM" CAST ON THE LID. THE JOINTS BETWEEN CONCRETE SECTION ADJUSTING RINGS, AND FRAME SHALL BE SEALED WITH A MASTIC COMPOUND.
- CLEANING: THE STORM SEWER SYSTEM SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL INSPECTION AND TESTING.
- ON ALL IMPROVEMENTS THE FRAMES AND LIDS OF EXISTING CATCH BASINS, INLETS, MANHOLES AND VALVE VAULTS WHICH ARE TO BE ABANDONED DUE TO CONSTRUCTION OF THIS IMPROVEMENT ARE TO REMAIN THE PROPERTY OF THE CITY OF LASALLE AND BE SALVAGED. THE OWNER SHALL BE NOTIFIED AS TO AVAILABILITY FOR PICK-UP.
- THE VERTICAL AND HORIZONTAL CLEARANCES BETWEEN RELOCATED WATER MAINS AND PROPOSED OR EXISTING STORM SEWERS SHALL CONFORM TO THE REQUIREMENTS OF THE I.E.P.A. MANUAL OF STANDARD PRACTICES FOR CONSTRUCTION OF UNDERGROUND UTILITIES. THE FOLLOWING METHODS RECOMMENDED BY THE I.E.P.A. WILL BE ACCEPTABLE TO THE ENGINEER:
  - BOTH THE WATERMAIN AND THE SEWER SHALL BE CONSTRUCTED OF SLIP ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, ASBESTOS-CEMENT PRESSURE PIPE OR PRESTRESS CONCRETE PIPE MELTING WATER MAIN STANDARDS, OR;
  - THE WATER MAIN SHALL BE INSTALLED INSIDE OF A STEEL OR PVC (SDR-26 OR LESS) CASING PIPE; OR;
  - THE STORM SEWER CROSSING THE WATER MAIN SHALL BE REINFORCED CONCRETE PIPE MEETING ASTM C76 WITH ASTM C361 JOINTS AND PREFORMED FLEXIBLE GASKET MATERIAL CONFORMING TO ASTM C443 PROVIDED THE GASKET IS PROPERLY SEALED TO INSURE WATER TIGHTNESS.
 THIS TREATMENT IS REQUIRED FOR A DISTANCE OF AT LEAST 10 FEET HORIZONTALLY ON EACH SIDE OF THE CROSSING, ANY ADDITIONAL COST INCURRED IN COMPLYING WITH THE STANDARD SPECIFICATIONS AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- THE TOP OF ALL STRUCTURES SHALL BE FLUSH WITH THE ADJACENT SURFACE OR AT THE INDICATED ELEVATIONS SHOWN ON THE PLANS.
- FRAME ELEVATIONS ARE GIVEN ONLY TO ASSIST IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE COST.
- CARE SHOULD BE TAKEN DURING CONSTRUCTION TO INSURE THAT ALL DRAIN SYSTEMS ARE RE-ESTABLISHED. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY WHEN DRAIN TILE SYSTEMS ARE ENCOUNTERED OTHER THAN THOSE SHOWN IN THE PLANS FOR PROPER INSTRUCTION AND DISPOSITION.
- CHERT AGGREGATE SHALL NOT BE ALLOWED IN THE MANUFACTURING OF STORM SEWERS, END SECTIONS OR PRECAST DRAINAGE STRUCTURES.

<b>ROBINSON REGISTERED PROFESSIONAL ENGINEERS</b>		<b>REVISIONS</b>	
CONSULTING ENGINEERING, LTD.		No.	Revisions
1700 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60473		Date	
(708) 331-6700		Checked by:	
© COPYRIGHT 2012		Scale:	NONE
ILLINOIS RESIDENT LICENSE NO. 194001128		Sheet	2 of 6
Project No. 12-228			
<b>LASALLE CHOSAT STREET ILLINOIS</b>			
<b>STORM SEWER SEPARATION IMPROVEMENTS SUMMARY OF QUANTITIES &amp; GENERAL NOTES</b>			
Drawn by:	JFA	Date:	1-30-2012
Checked by:	BDB	Scale:	NONE



- REMOVE & REPLACE LEGEND**
- (S1) HMA PAVEMENT REMOVE & REPLACE
  - (S2) PCC DRIVEWAY REMOVE & REPLACE
  - (S3) PCC SIDEWALK REMOVE & REPLACE
  - (S4) COMB. CONC. CURB & GUTTER REMOVE & REPLACE TYPE B-6.12
  - (R) REMOVE

- UTILITY NOTES:**
- 1.) ALL RIM ELEVATIONS OF STRUCTURES IN THE PROPOSED CURB LINE ARE GIVEN TO THE EDGE OF PAVEMENT. ALL OTHER RIM ELEVATIONS ARE GIVEN TO THE CENTER OF THE STRUCTURE.
  - 2.) OFFSETS ARE FROM  $\phi$  OF CONSTRUCTION.
  - 3.) (X.X) - DENOTES CUBIC YARDS OF TRENCH BACKFILL.
  - 4.) CONNECTIONS TO EXISTING OR PROPOSED STRUCTURES CONSIDERED INCIDENTAL TO THE CONTRACT.

**EROSION CONTROL LEGEND**

- (B) INLET FILTER

**BENCH MARK:**  
 BM#3: TOP NUT ON FIRE HYDRANT @ SOUTHEAST QUADRANT OF O'CONNOR AVENUE AND NORTH CROSAT STREET  
 ELEVATION = 724.44

**ROBINSON ENGINEERING, LTD.**  
 CONSULTING ENGINEERS  
 1700 SOUTH PARK AVENUE, SOUTH HOLLAND, ILLINOIS 60472  
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**CROSAT STREET STORM SEWER SEPARATION IMPROVEMENTS PLAN & PROFILE**

**LASALLE ILLINOIS**

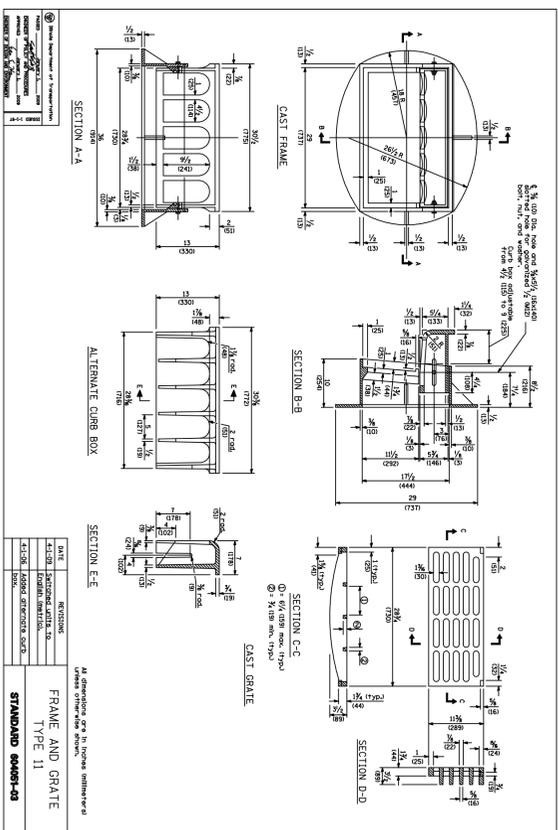
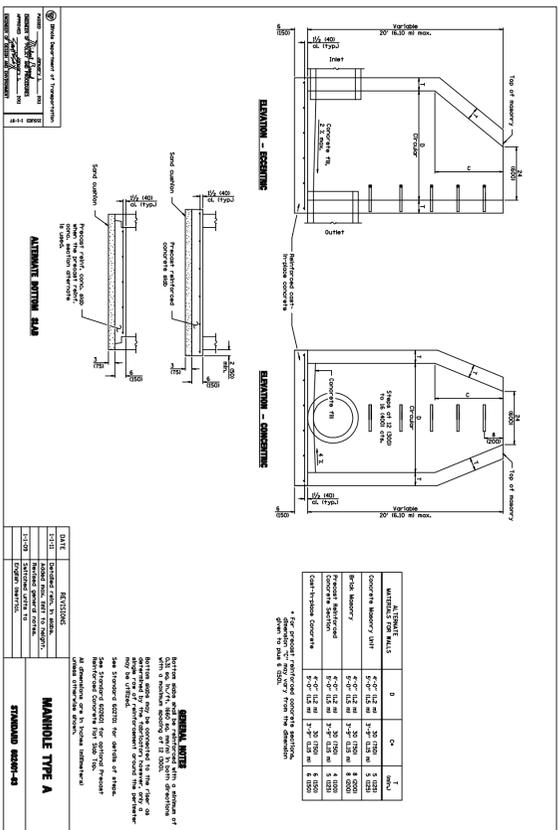
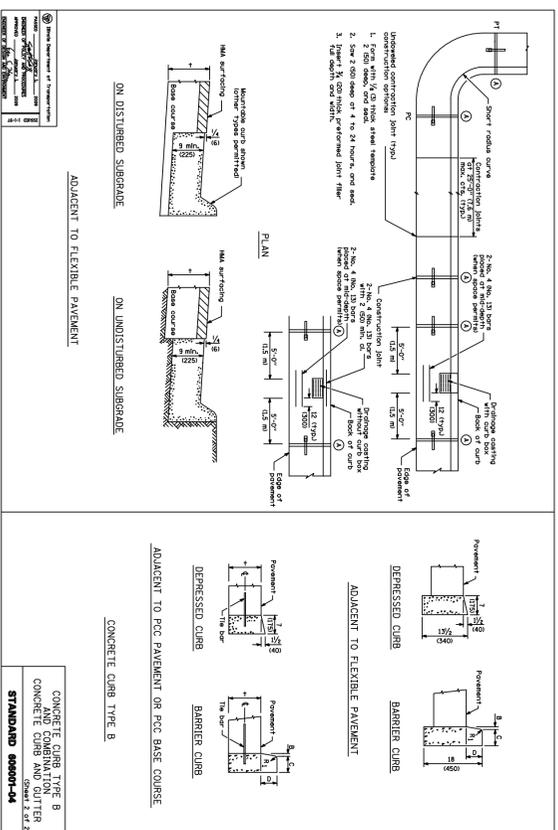
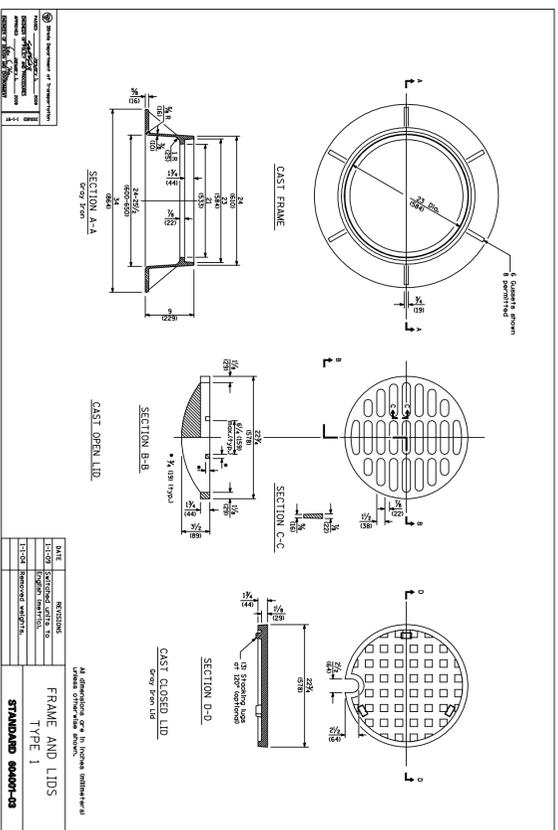
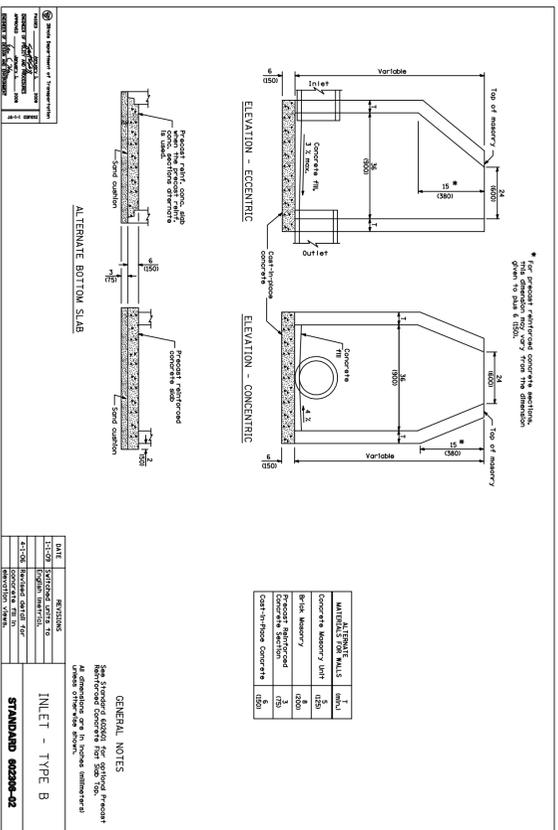
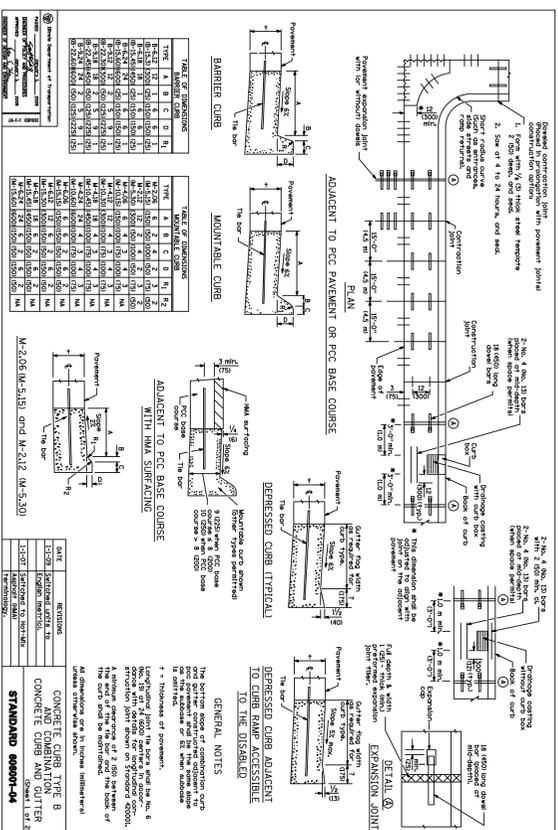
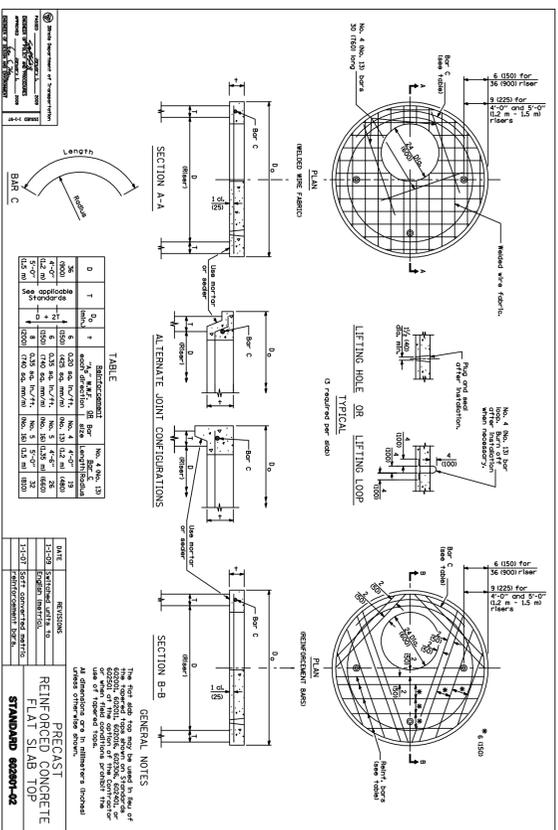
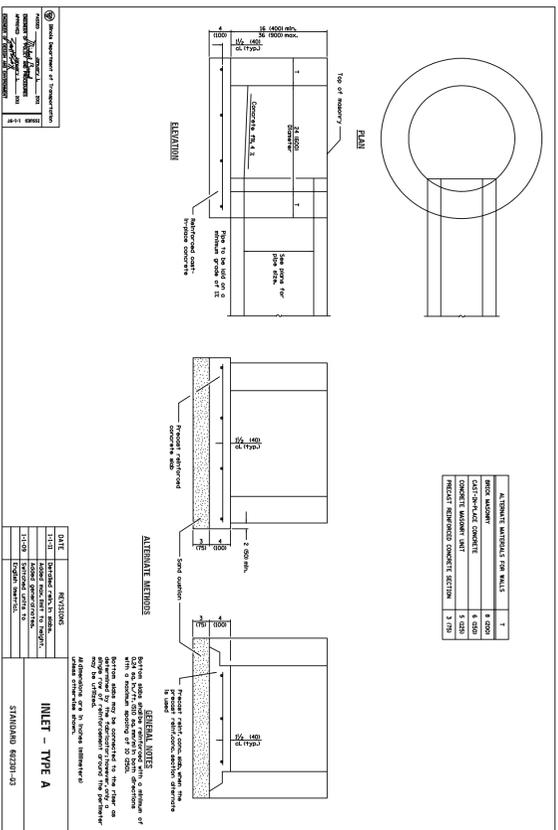
Drawn by: JUB/JRA Date: 1-30-2012  
 Checked by: BDB Scale: H=1"=20' V=1"=2'  
 Sheet: 3 of 6 Project No.: 12-228

REVISIONS	
No.	Remarks
702	
700	
698	

XXX.XX - - EXISTING ELEVATION  
 XXX.XX - - PROPOSED ELEVATION







**ROBINSON ENGINEERING, LTD.**  
 CONSULTING PROFESSIONAL ENGINEERS  
 1700 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473  
 (708) 331-6700  
 ILLINOIS DESIGN LICENSE NO. 184001128

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 CHOSAT STREET  
 STORM SEWER SEPARATION IMPROVEMENTS  
 CONSTRUCTION DETAILS

**LASALLE ILLINOIS**

Drawn by: JUB/JRA Date: 1-30-2012  
 Checked by: BDB Scale: NONE  
 Sheet 6 of 6 Project No. 12-228

NO.	DATE	REVISIONS

# CITY of LASALLE ILLINOIS

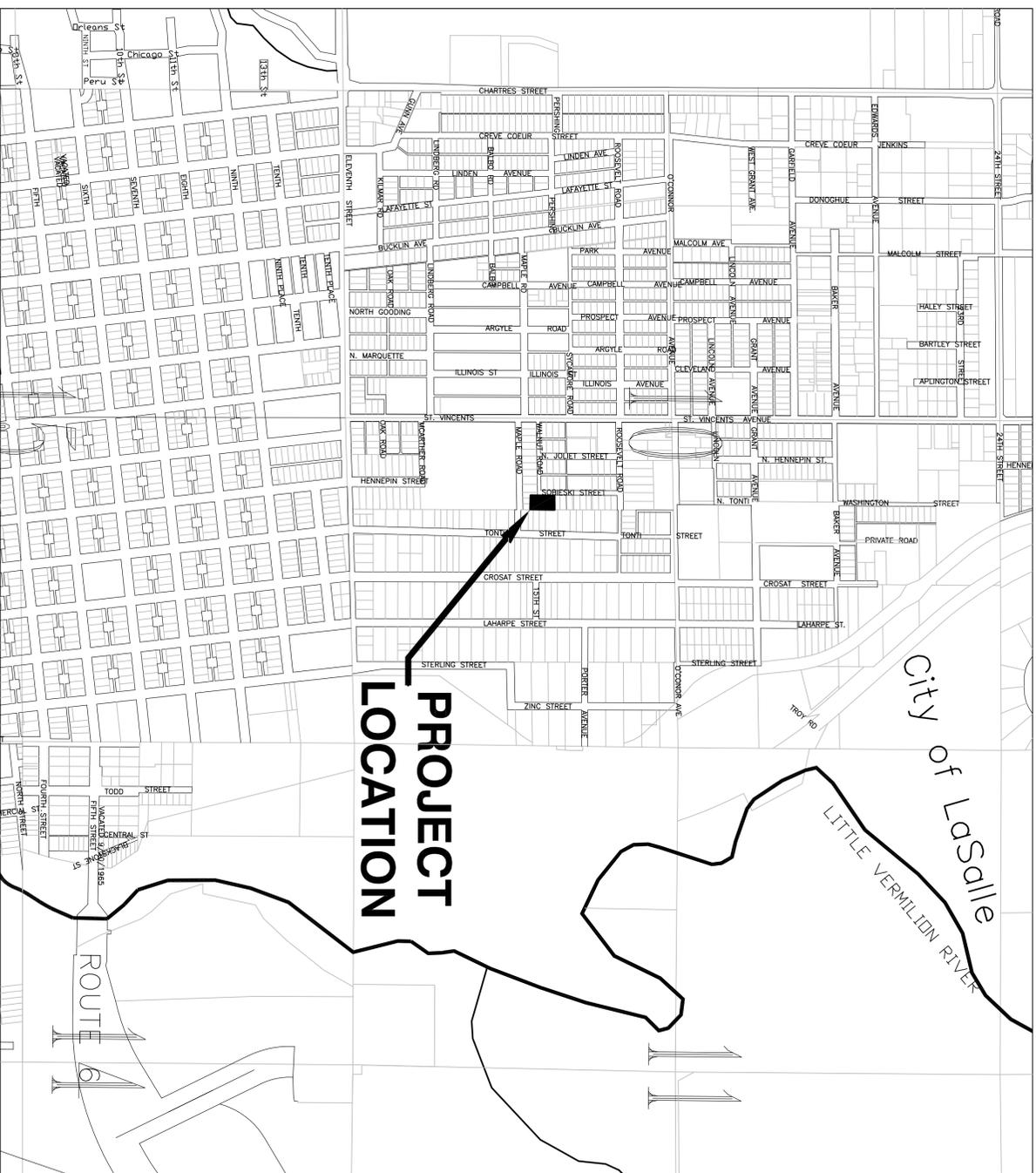
## WALNUT RD/ SOBIESKI ST STORM DETENTION



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JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS  
(EXCLUDING NAT. SIGN & HOUS.)

Call: 811 OR 1-800-892-0123

CITY of LASALLE ILLINOIS

APPROVED \_\_\_\_\_

20

PREPARED BY OR UNDER THE DIRECT SUPERVISION OF:

*[Signature]*

DATED THIS 30th DAY OF JANUARY, 2012

**Robynson ENGINEERING**

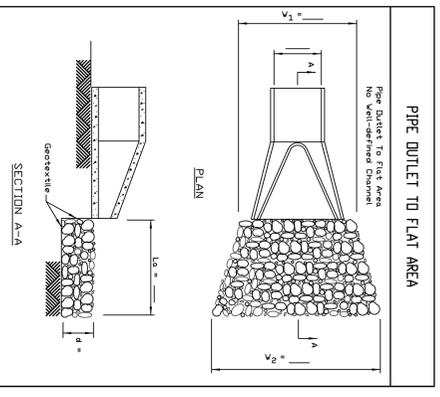
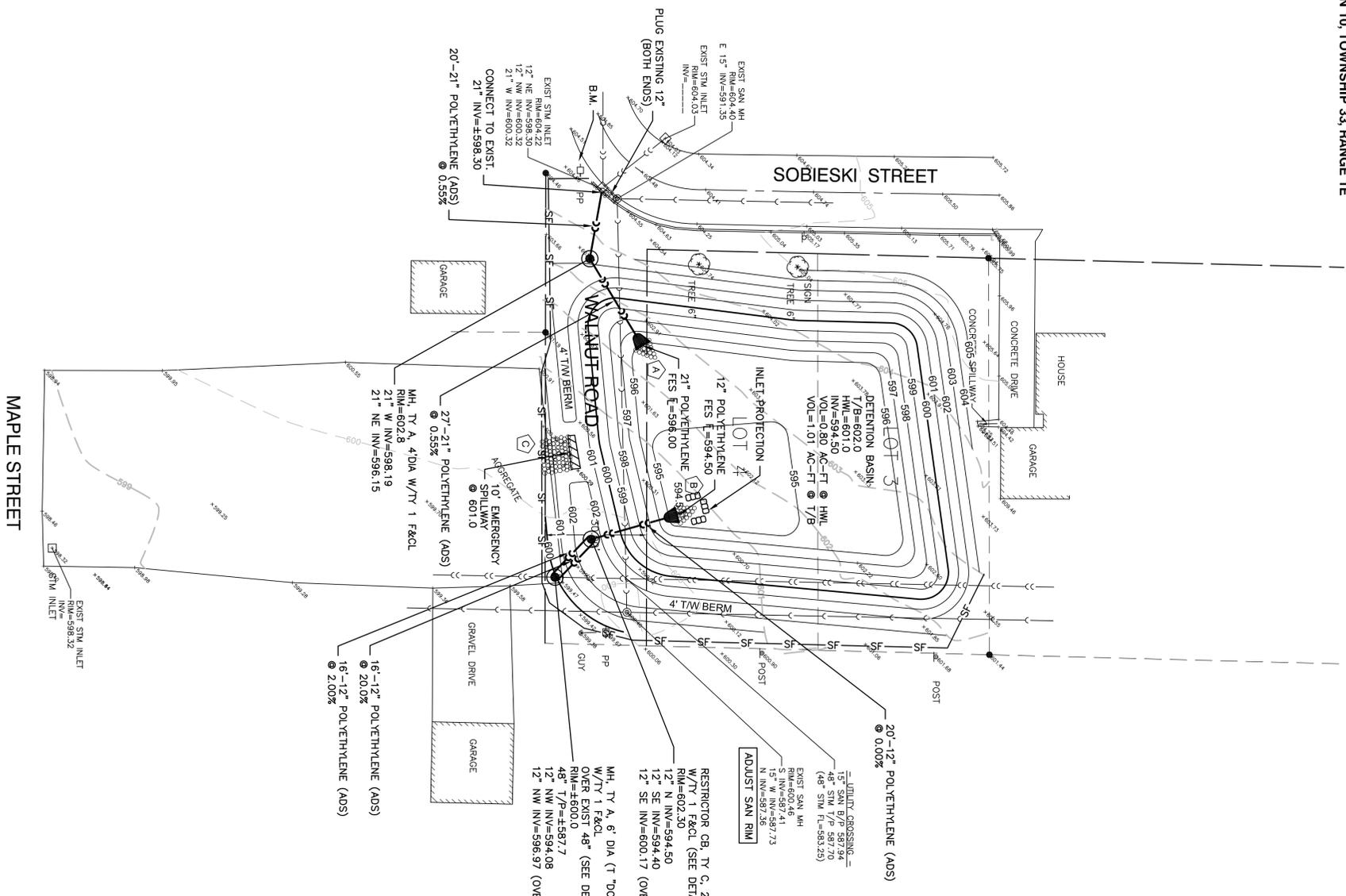
PREPARED BY:

PROJECT NO. 12-229

SHEET NO. 1 OF 4

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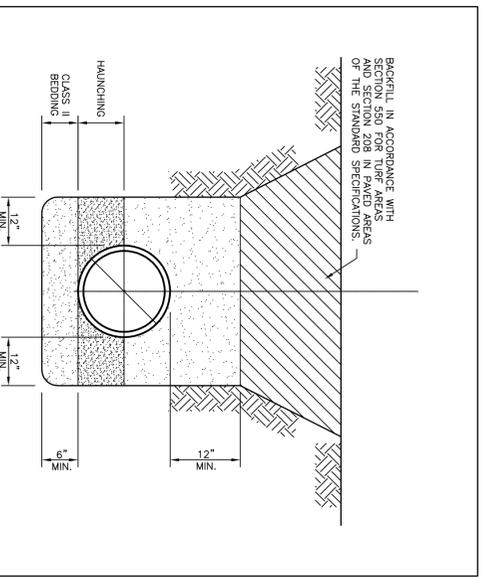
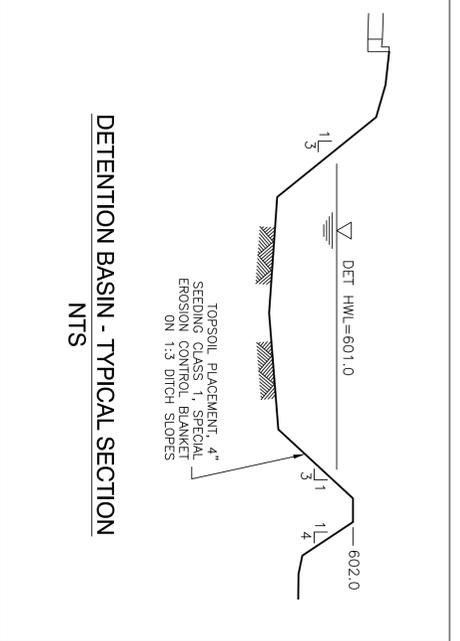
NOTES:  
 1. The filter fabric shall meet the requirements in material 117.  
 2. The rock riprap shall meet the IDOT requirements for the following gradation RR3 and RR4. Quality A.  
 3. Following gradation RR3 and RR4, the rock may be equipment placed.  
 4. If UNDER RIDE RIPRAP, the rock may be equipment placed.  
 DETAIL REVISED BY ROBINSON ENGINEERING, LTD.

ROBINSON ENGINEERING, LTD.  
 1700 SOUTH PARK AVENUE, SUITE 200  
 LILIAN, ILLINOIS 62439  
 (708) 331-9700  
 FAX (708) 331-9888  
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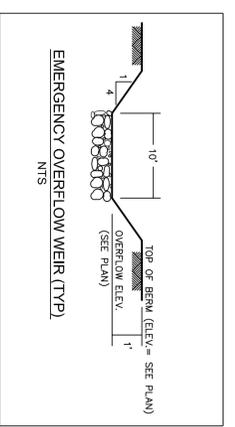
TABLE 1  
**ROCK RIPRAP SIZES AND THICKNESS**

IDOT Gradation Number	450 dia (in.)	450 dia (mm)	Minimum Thickness (in.)	Minimum Thickness (mm)
RR-3 1/2	5	10	15	
RR-4	9	14	20	
RR-5	12	19	28	
RR-6	15	22	32	
RR-7	18	27	32	

A = RR3, L<sub>0</sub>=16', W<sub>1</sub>=4.5', W<sub>2</sub>=7.5' = 11.0 SQYD  
 B = RR3, L<sub>0</sub>=8', W<sub>1</sub>=3', W<sub>2</sub>=5' = 4.0 SQYD  
 C = RR4, L<sub>0</sub>=15', W<sub>1</sub>=14', W<sub>2</sub>=14' = 23.0 SQYD  
 TOTAL=38.0 SQYD



NOTES:  
 1. TRENCH SHALL BE IN ACCORDANCE WITH OSHA SAFETY STANDARDS.  
 ADS STORM SEWER INSTALLATION DETAIL  
 NOT TO SCALE



**BENCH MARK:**  
 SPIKE IN POWER POLE AT THE S.E. CORNER OF WALNUT ROAD AND SOBIESKI STREET.  
 ELEVATION = 603.68

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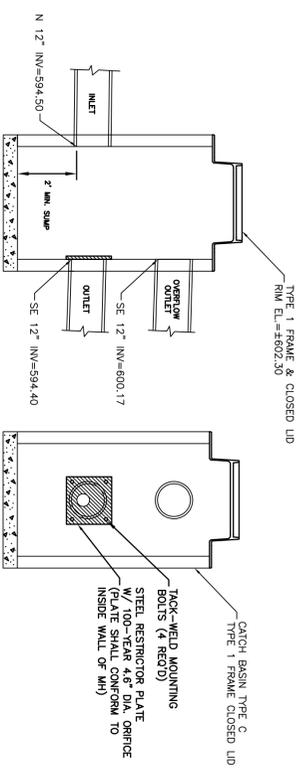
WALNUT RD/ SOBIESKI ST  
 STORM DETENTION  
 GRADING PLAN

**LASALLE ILLINOIS**

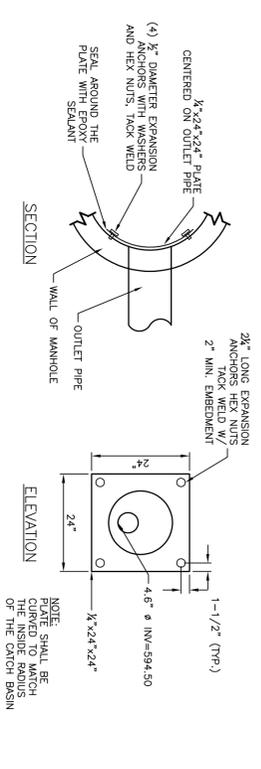
Drawn by:	JFA/LJD	Date:	1-30-2012
Checked by:	BDB	Scale:	NONE
Sheet:	3	of:	4
Project No.:	12-229		

**REVISIONS**

No.	Date	Revisions



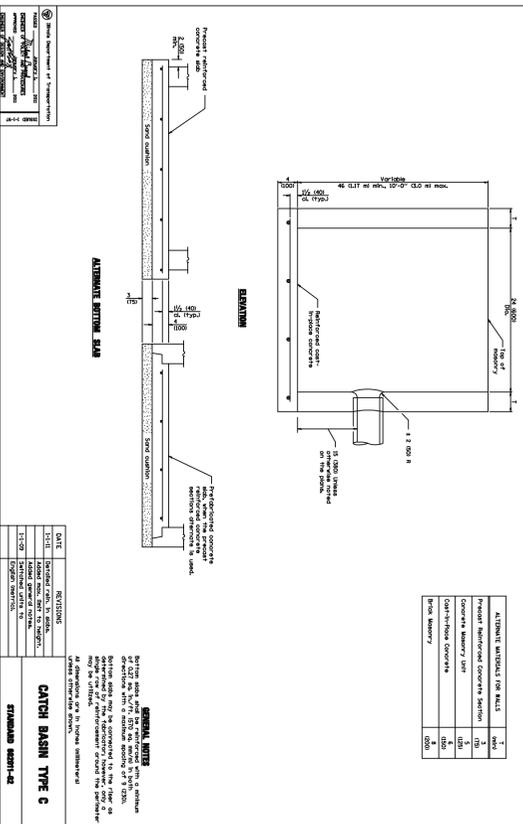
**RESTRICTOR DETAIL**



**RESTRICTOR PLATE DETAIL**

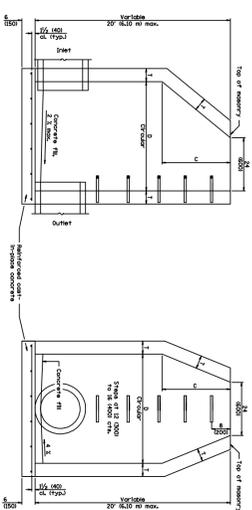
NOTE: THE RESTRICTOR PLATE AND FASTENERS SHALL BE FABRICATED IN STAINLESS STEEL OR DUCTILE IRON

DEPTH OF BOLTS INTO STRUCTURE WALL SHALL BE A MINIMUM OF 2 INCHES

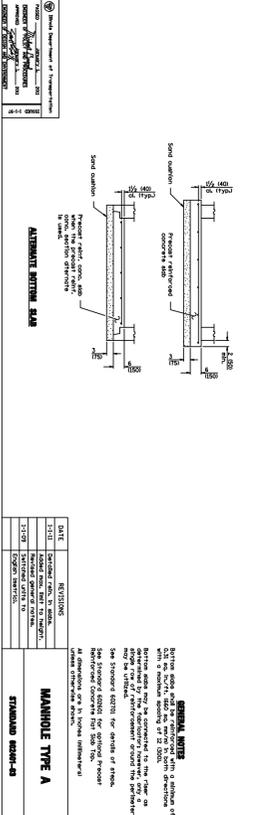


**CATCH BASIN TYPE C**

DATE	REVISIONS
11-20	ISSUE FOR PERMIT
11-20	ISSUE FOR CONSTRUCTION



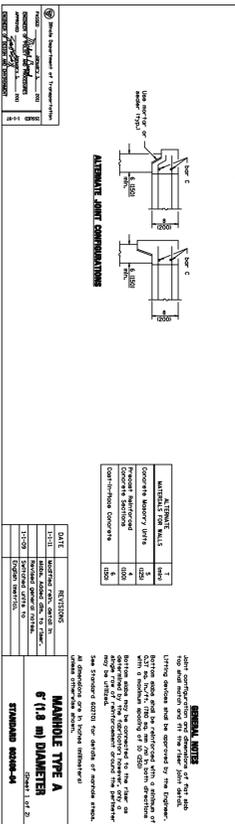
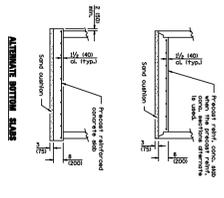
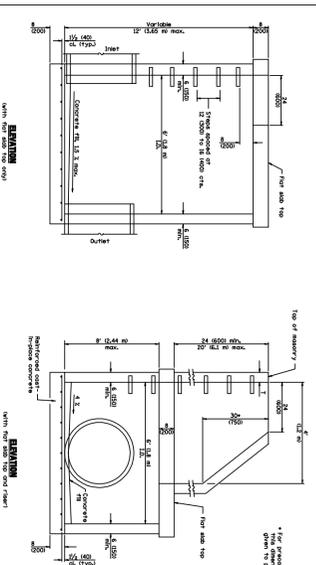
ALTERNATE MATERIALS	NO.	DESCRIPTION
CONCRETE	1	CONCRETE
PRECAST CONCRETE	2	PRECAST CONCRETE
CAST-IN-PLACE CONCRETE	3	CAST-IN-PLACE CONCRETE
CAST-IN-PLACE CONCRETE	4	CAST-IN-PLACE CONCRETE
CAST-IN-PLACE CONCRETE	5	CAST-IN-PLACE CONCRETE
CAST-IN-PLACE CONCRETE	6	CAST-IN-PLACE CONCRETE
CAST-IN-PLACE CONCRETE	7	CAST-IN-PLACE CONCRETE
CAST-IN-PLACE CONCRETE	8	CAST-IN-PLACE CONCRETE
CAST-IN-PLACE CONCRETE	9	CAST-IN-PLACE CONCRETE
CAST-IN-PLACE CONCRETE	10	CAST-IN-PLACE CONCRETE



DATE	REVISIONS
11-20	ISSUE FOR PERMIT
11-20	ISSUE FOR CONSTRUCTION

**MANHOLE TYPE A**

STANDARD 60240-03



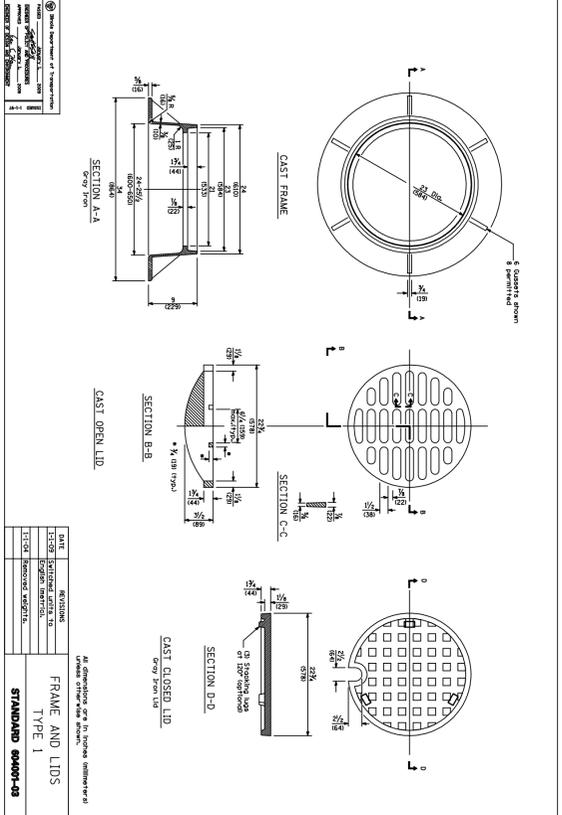
DATE	REVISIONS
11-20	ISSUE FOR PERMIT
11-20	ISSUE FOR CONSTRUCTION

**MANHOLE TYPE A**

STANDARD 60240-04

**T-DOG HOUSE DETAIL**

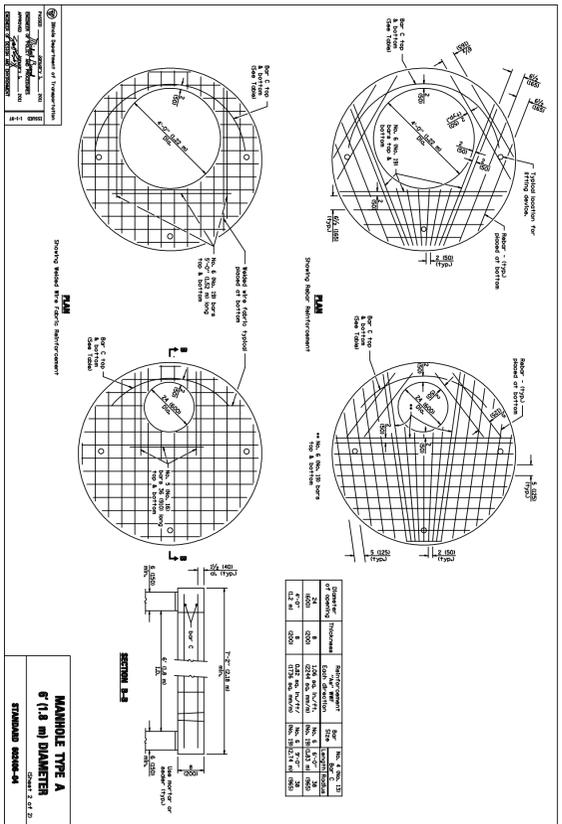
NOTE: FOR T-DOG HOUSE DETAIL, ADAPT STANDARD 60240-04 TO BE PLACED OVER EXISTING 48" STORM



DATE	REVISIONS
11-20	ISSUE FOR PERMIT
11-20	ISSUE FOR CONSTRUCTION

**FRAME AND LIDS**

STANDARD 60401-03



DATE	REVISIONS
11-20	ISSUE FOR PERMIT
11-20	ISSUE FOR CONSTRUCTION

**MANHOLE TYPE A**

STANDARD 60240-01

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**WALNUT RD / SOBIESKI ST**  
**STORM DETENTION**  
**CONSTRUCTION DETAILS**

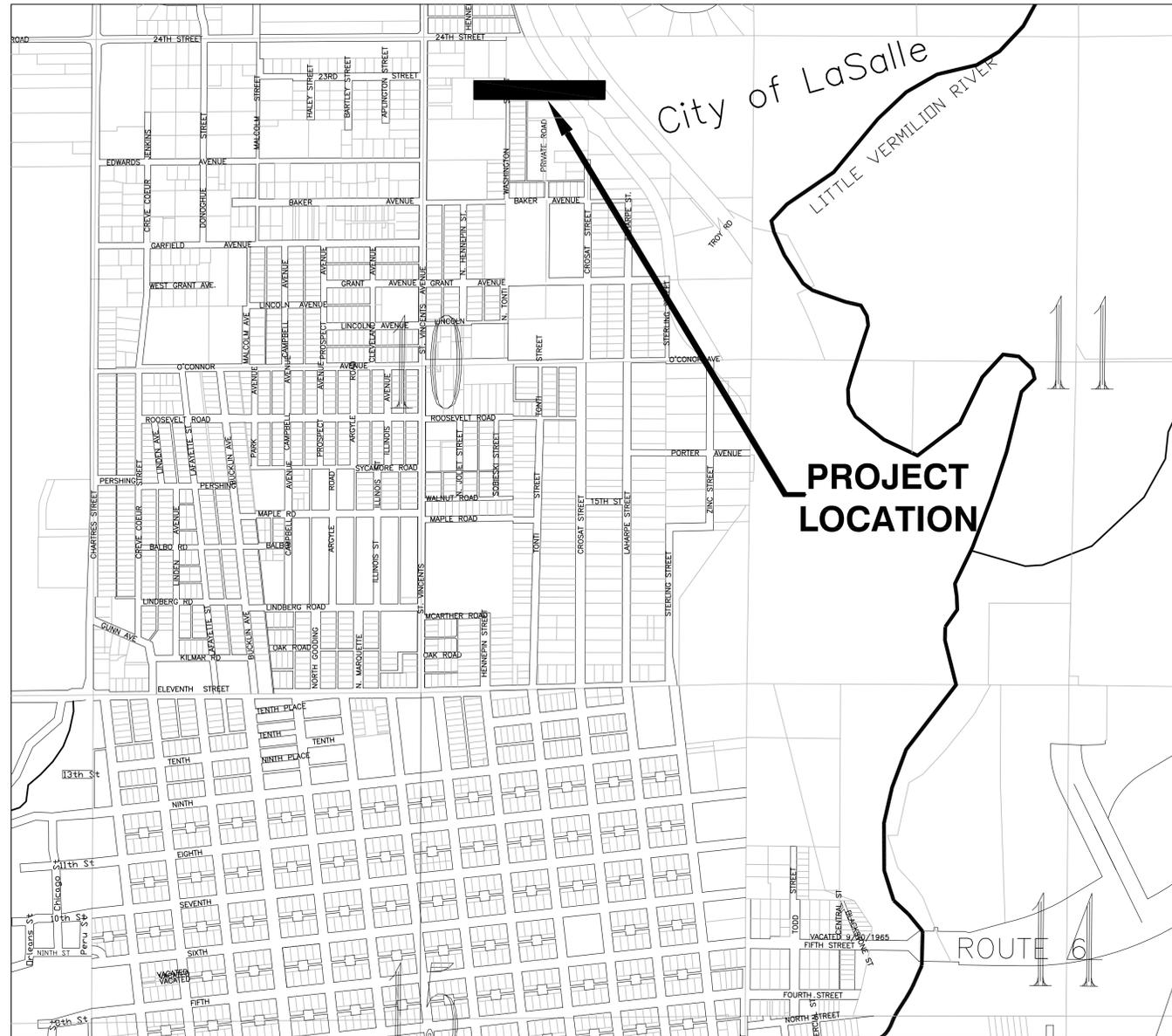
**LASALLE ILLINOIS**

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Checked by:	BDB	Scale:	NONE
Sheet:	4	of:	4
Project No.:	12-229		

NO.	DATE	REVISIONS

# CITY of LASALLE ILLINOIS

## WASHINGTON STREET / 23rd STREET DETENTION POND IMPROVEMENTS



**LOCATION MAP**

SCALE: 1" = 600'

— - INDICATES PROPOSED IMPROVEMENT

### INDEX OF SHEETS

1. COVER SHEET
2. GENERAL NOTES & SUMMARY OF QUANTITIES
3. PLAN & PROFILE - WEST
4. PLAN & PROFILE - EAST
5. DETAILS - CONSTRUCTION
6. DETAILS - DRAINAGE STRUCTURE (SPECIAL)
7. DETAILS - EROSION CONTROL

### IDOT HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311-03	GRATING FOR CONCRETE FLARED END SECTION
602411-03	MANHOLE - TYPE A, 7' DIAMETER
602701-02	MANHOLE STEPS
604001-03	FRAME AND LIDS TYPE 1
701901-02	TRAFFIC CONTROL DEVICES

CITY of LASALLE ILLINOIS

APPROVED \_\_\_\_\_ 20\_\_

PREPARED BY OR UNDER THE  
DIRECT SUPERVISION OF:

*[Signature]*

DATED THIS 9th DAY OF FEBRUARY, 2012



PREPARED BY:



**Robinson**  
ENGINEERING

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**PROJECT NO. 12-251**

SHEET NO. 1 OF 7

Call Before You Dig

**JULIE**  
ILLINOIS ONE-CALL SYSTEM

JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS

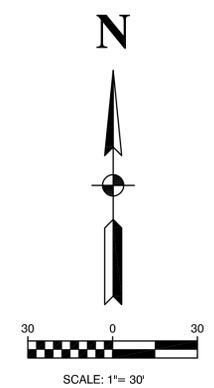
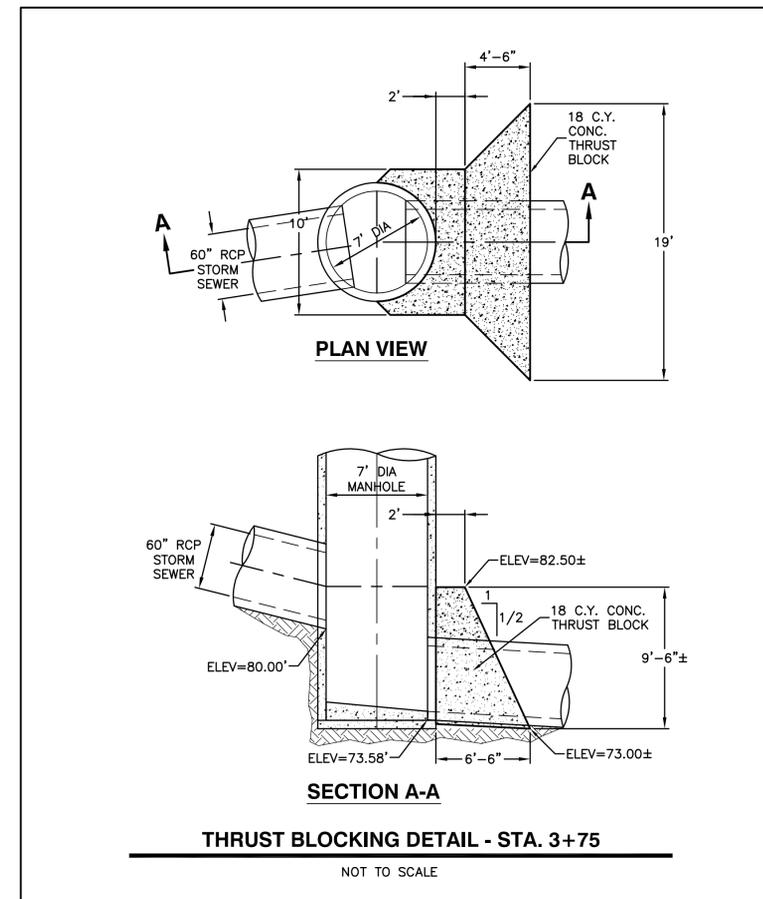
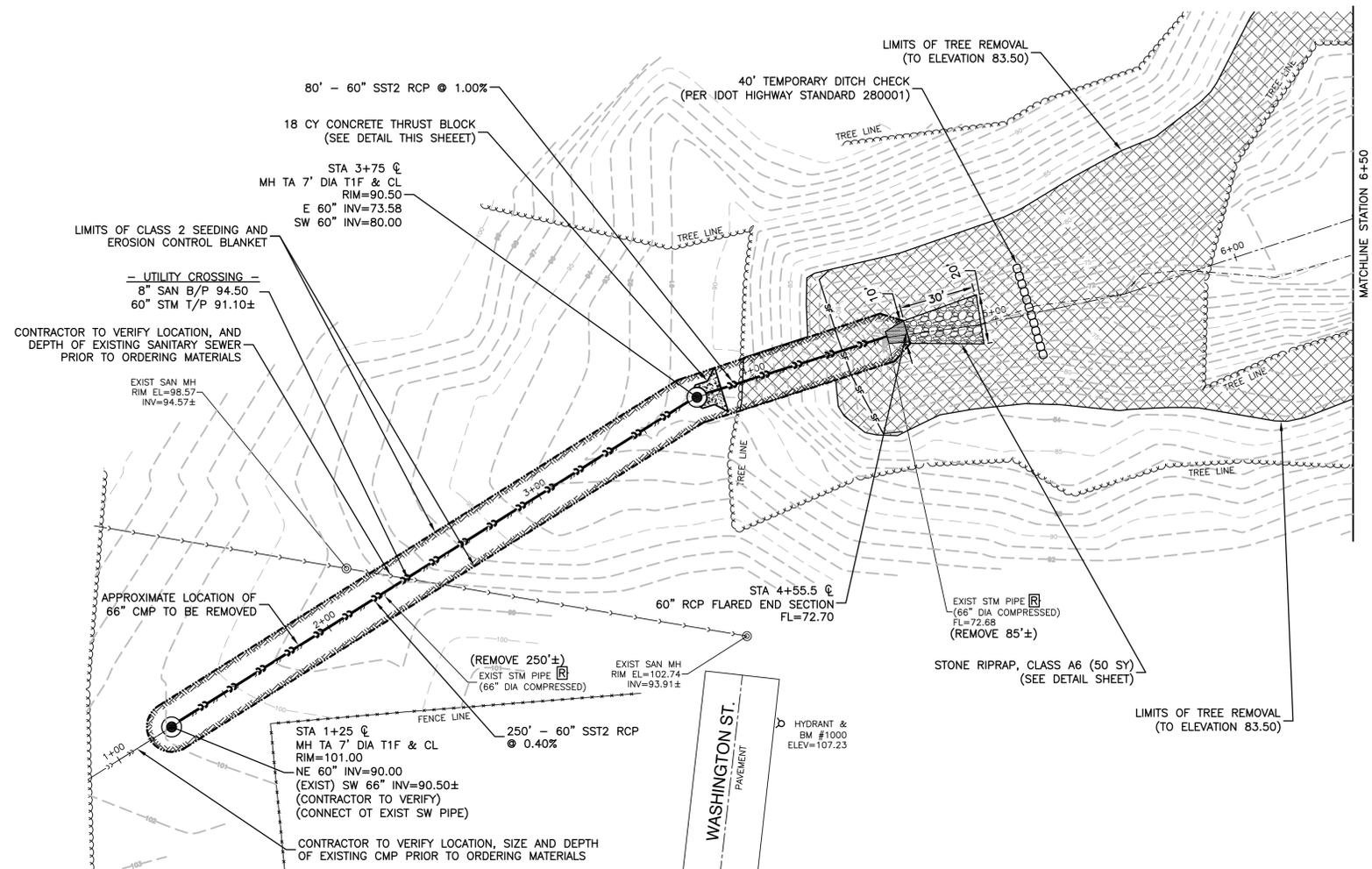
48 hours before you dig (EXCLUDING SAT., SUN., & HOL.)

**811**

Call: 811 OR 1-800-892-0123

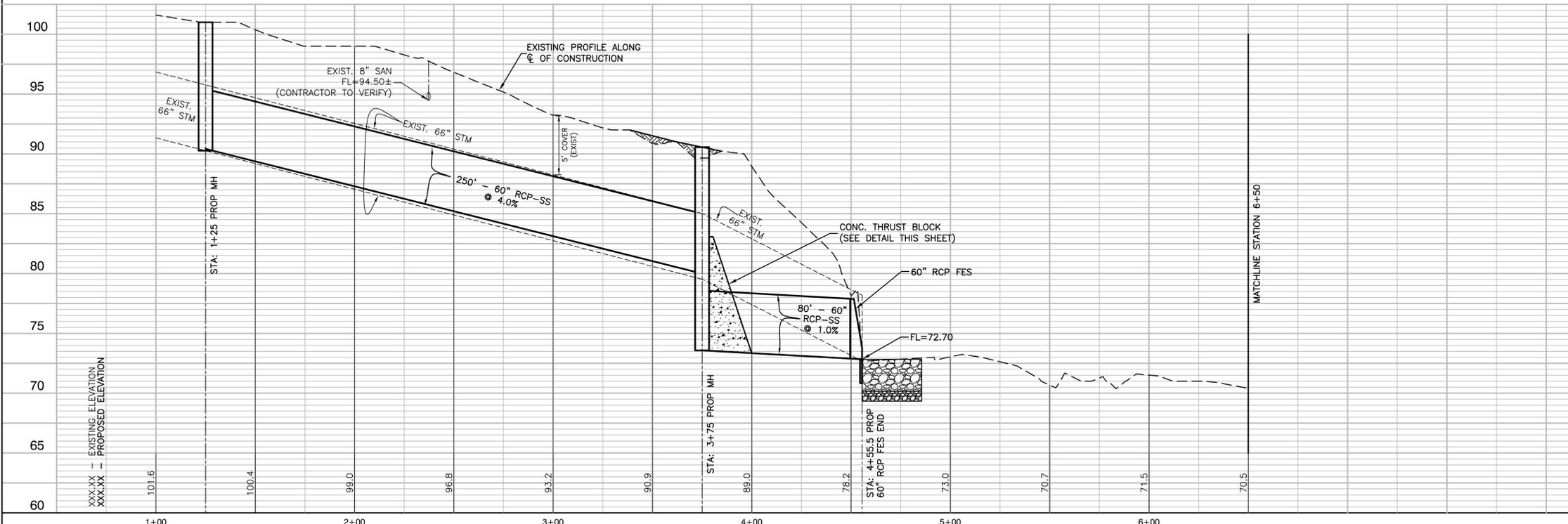


SECTION 10, TOWNSHIP 33, RANGE 1E



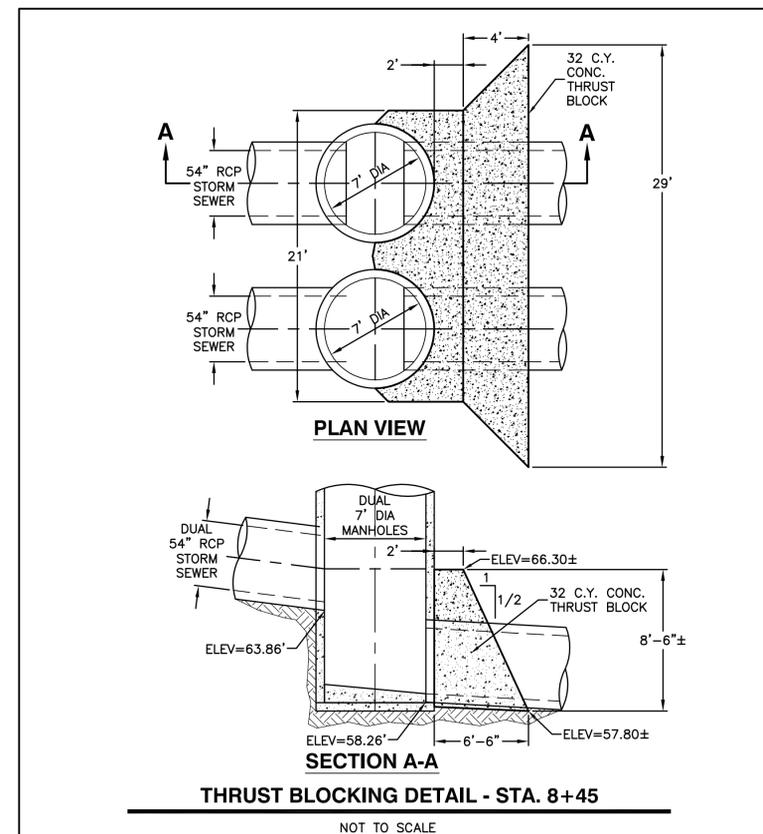
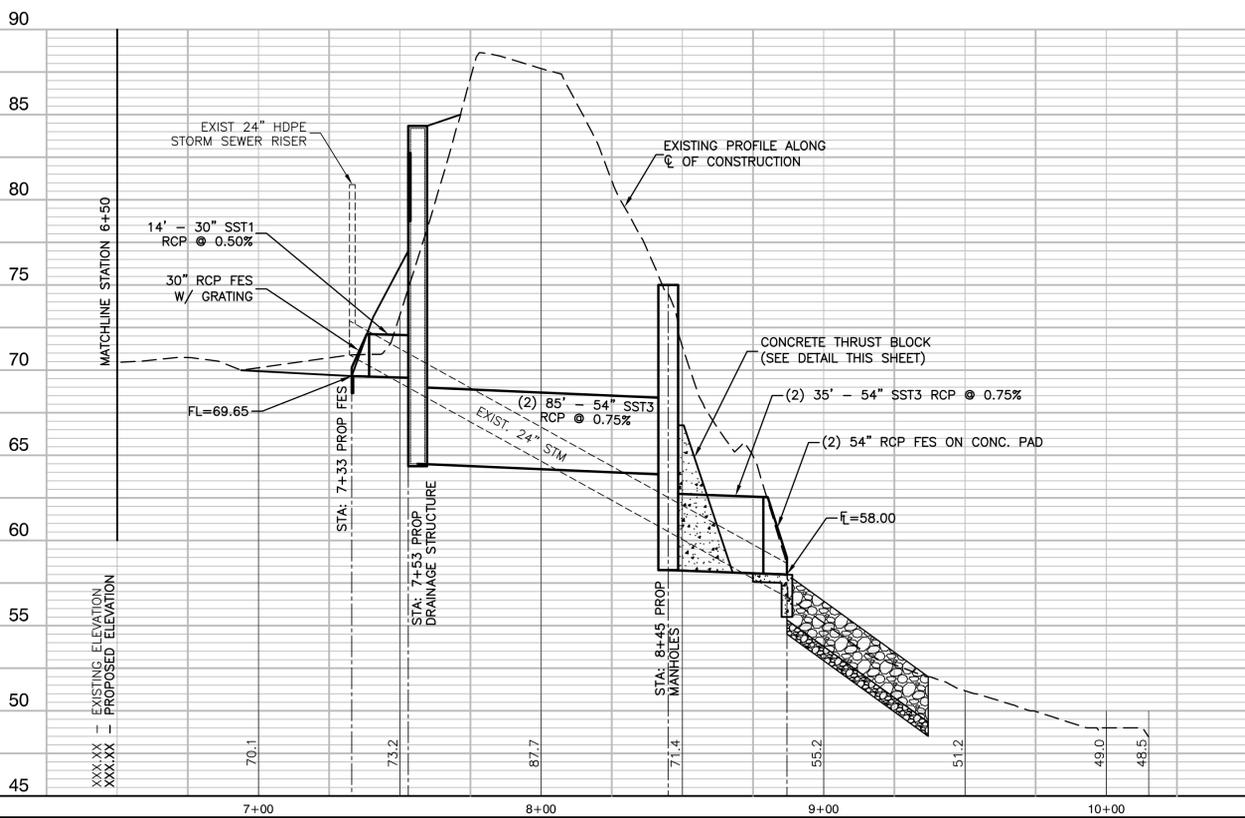
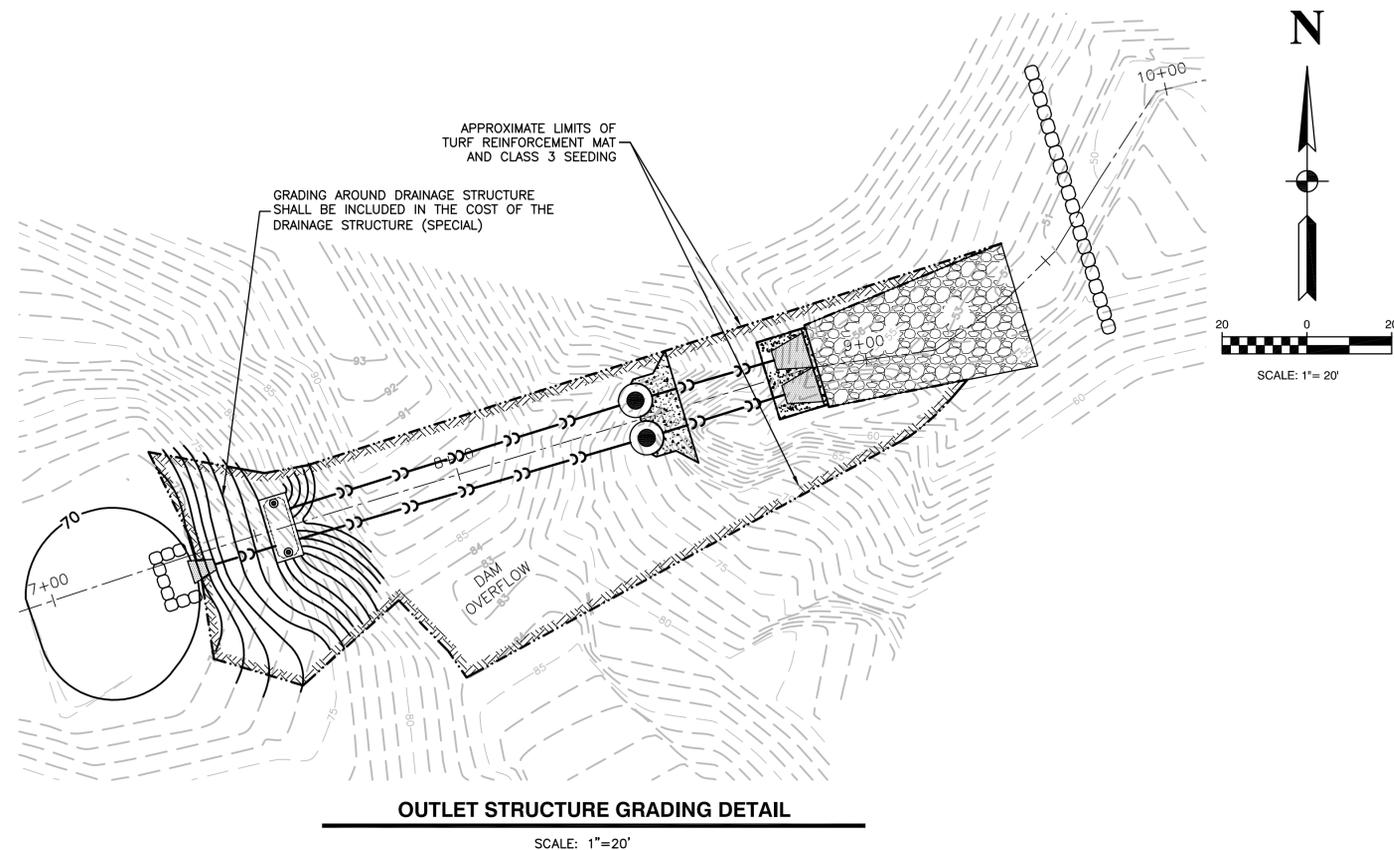
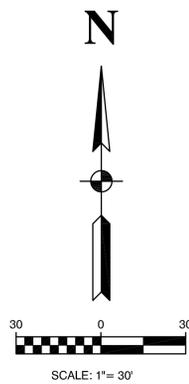
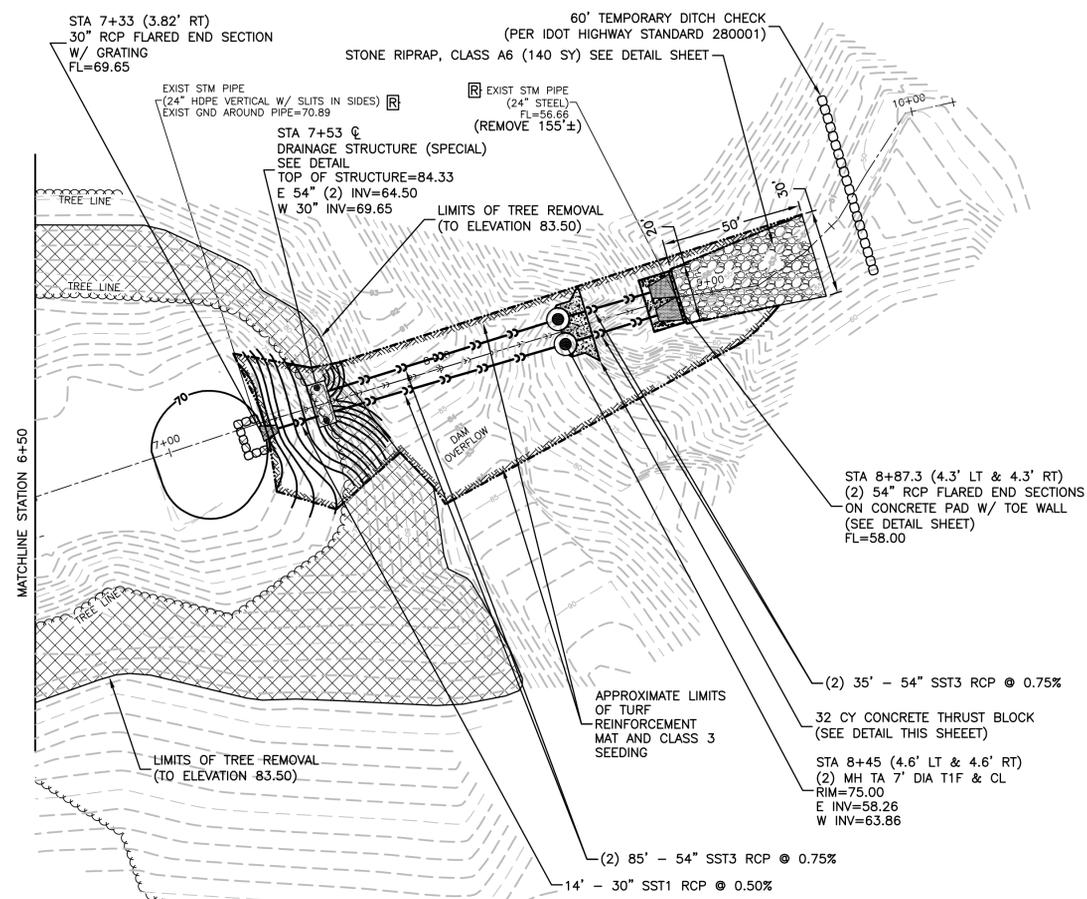
- LEGEND**
- EXISTING STORM SEWER
  - EXISTING SANITARY SEWER
  - EXISTING FENCE LINE
  - EXISTING TREE LINE
  - ⊙ EXISTING MANHOLE
  - ⊕ EXISTING HYDRANT
  - EXISTING MINOR CONTOUR LINE
  - EXISTING MAJOR CONTOUR LINE
  - TREE REMOVAL
  - [R] REMOVE
  - STONE RIPRAP, CLASS A6
  - TEMPORARY DITCH CHECKS
  - INLET & PIPE PROTECTION
  - PERIMETER EROSION BARRIER TO BE PLACED AS DIRECTED
  - SF PROPOSED STORM SEWER
  - ⊙ PROPOSED MANHOLE
  - PROPOSED FLARED END SECTION

**BENCH MARK:**  
 BM#1000: "O" IN OPEN ON FIRE HYDRANT LOCATED AT THE SOUTHWEST CORNER OF THE DETENTION POND AND EAST OF THE PAVED SURFACE AT THE NORTH END.  
 ELEVATION = 107.23



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<b>WASHINGTON STREET / 23RD STREET                  DETENTION POND IMPROVEMENTS                  PLAN &amp; PROFILE - WEST</b>			
<b>LASALLE ILLINOIS</b>			
Drawn by: JJB	Date: 2-8-2012		
Checked by: BDB	Scale: H 1"=30' V 1"=5'		
Sheet 3 of 7	Project No. 12-251		

SECTION 10, TOWNSHIP 33, RANGE 1E



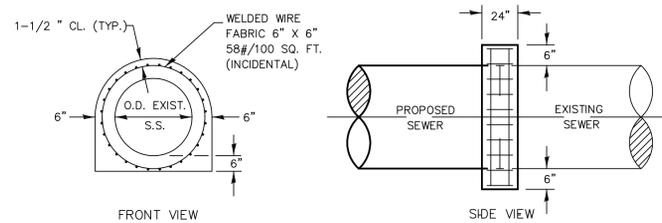
LEGEND

- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING FENCE LINE
- EXISTING TREE LINE
- ⊙ EXISTING MANHOLE
- ⊙ EXISTING HYDRANT
- EXISTING MINOR CONTOUR LINE
- EXISTING MAJOR CONTOUR LINE
- TREE REMOVAL
- Ⓜ REMOVE
- STONE RIPRAP, CLASS A6
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- INLET & PIPE PROTECTION
- PERIMETER EROSION BARRIER TO BE PLACED AS DIRECTED
- PROPOSED STORM SEWER
- ⊙ PROPOSED MANHOLE
- PROPOSED FLARED END SECTION

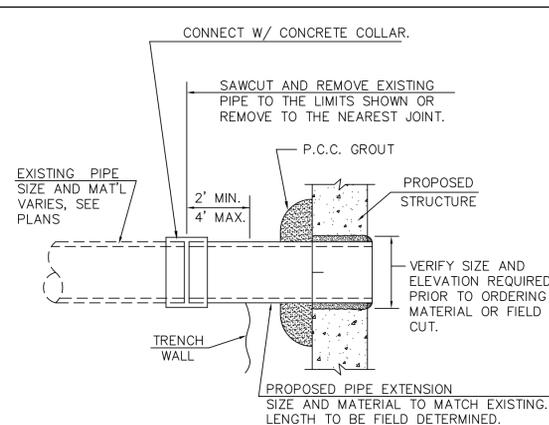
BENCH MARK:

BM#1000: "0" IN OPEN ON FIRE HYDRANT LOCATED AT THE SOUTHWEST CORNER OF THE DETENTION POND AND EAST OF THE PAVED SURFACE AT THE NORTH END. ELEVATION = 107.23

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WASHINGTON STREET / 23RD STREET DETENTION POND IMPROVEMENTS PLAN & PROFILE - EAST			
<b>LASALLE ILLINOIS</b>			
Drawn by: JJB Checked by: BDB Sheet 4 of 7	Date: 2-8-2012 Scale: H 1"=30' V 1"=5' Project No. 12-251		



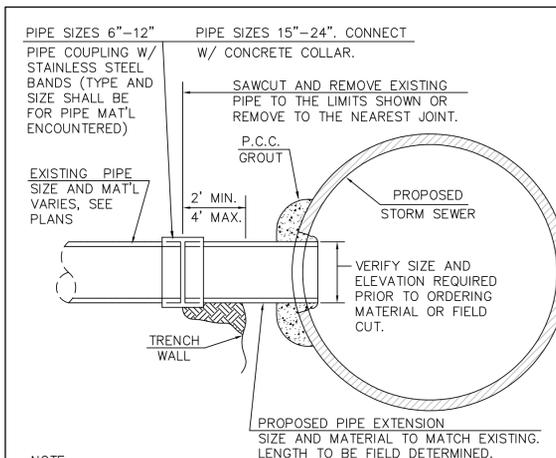
**CONCRETE COLLAR FOR SEWER CONNECTION**



NOTE:  
THE COST OF ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY TO INCORPORATE EXISTING PIPE INTO PROPOSED STRUCTURE, INCLUDING THE PIPE EXTENSION, PIPE REMOVAL, GROUT AND COUPLING OR COLLAR AS DETAILED SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH OF THE SIZE ENCOUNTERED.

**EXISTING PIPE CONNECTION TO PROPOSED STRUCTURE**

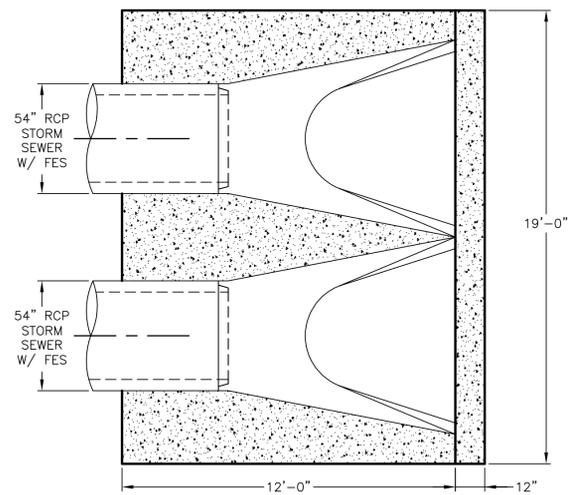
NOT TO SCALE



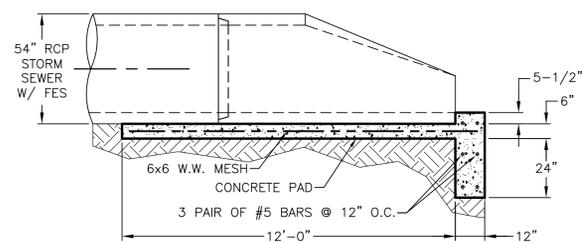
NOTE:  
THE COST OF ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY TO INCORPORATE EXISTING PIPE INTO PROPOSED STORM SEWER, INCLUDING THE PIPE EXTENSION, PIPE REMOVAL, GROUT AND COUPLING OR COLLAR AS DETAILED SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR FIELD TILE CONNECTIONS TO PROPOSED STORM SEWER OF THE SIZE RANGE ENCOUNTERED.

**FIELD TILE CONNECTION TO PROPOSED STORM SEWER**

NOT TO SCALE



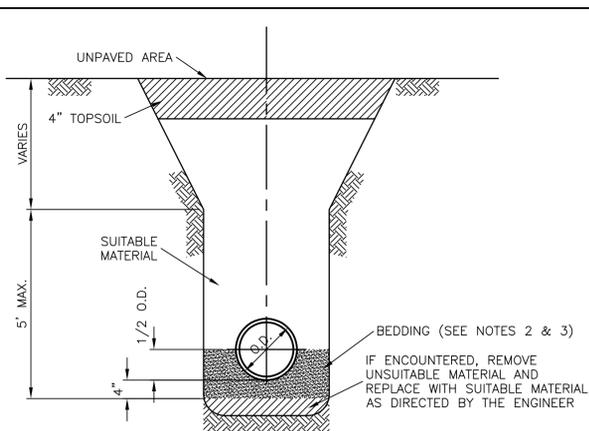
**PLAN VIEW**



**ELEVATION VIEW**

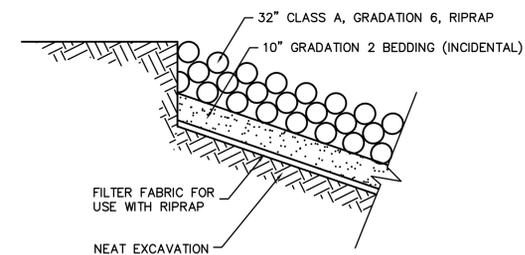
**CONCRETE PAD FOR PRECAST CONCRETE FLARED END SECTIONS**

NOT TO SCALE



- NOTES:
1. TRENCH SHALL BE IN ACCORDANCE WITH OSHA SAFETY STANDARDS.
  2. BEDDING SHALL BE REQUIRED TO BE A MINIMUM THICKNESS EQUAL TO 1/4 OF THE OUTSIDE DIAMETER OF THE PIPE BUT SHALL NOT BE LESS THAN 4". AS A MINIMUM, BEDDING AND HAUNCHING MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION." THE GRADATIONS SHALL EITHER BE FA-1 OR FA-2.
  3. WHEN STORM SEWER CONSTRUCTION OCCURS IN COMBINED SEWER AREAS, BEDDING AND HAUNCHING MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF THE "METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO." THE GRADATIONS SHALL EITHER BE CA-11 OR CA-13.

**TRENCH BACKFILL DETAIL FOR STORM SEWER**



**RIPRAP DETAIL**

PER SECTION 281 OF THE STANDARD SPECIFICATIONS

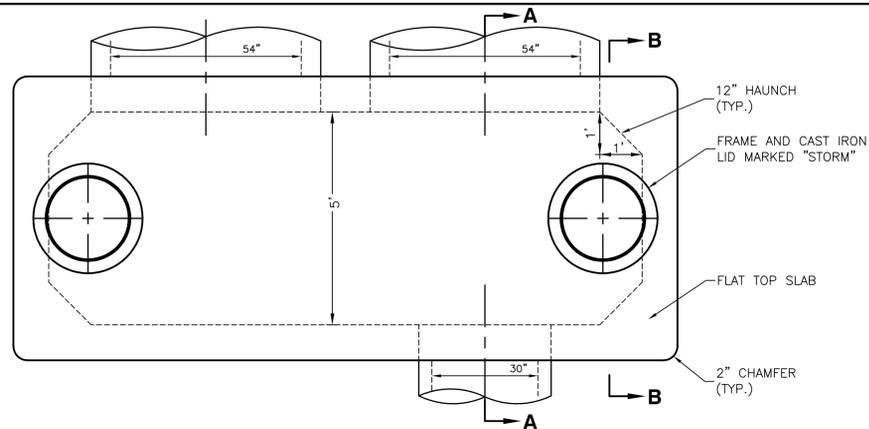
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WASHINGTON STREET / 23RD STREET  
DETENTION POND IMPROVEMENTS  
DETAILS - CONSTRUCTION

**LASALLE ILLINOIS**

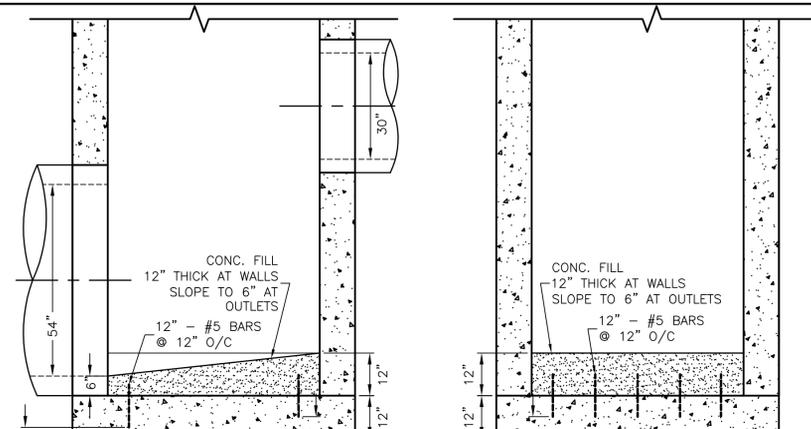
Drawn by: JJB Date: 2-8-2012  
Checked by: BDB Scale: AS SHOWN  
Sheet 5 of 7 Project No. 12-251

REVISIONS		
No.	Date	Remarks



**14' x 5' STORM BOX STRUCTURE PLAN VIEW**

NOT TO SCALE

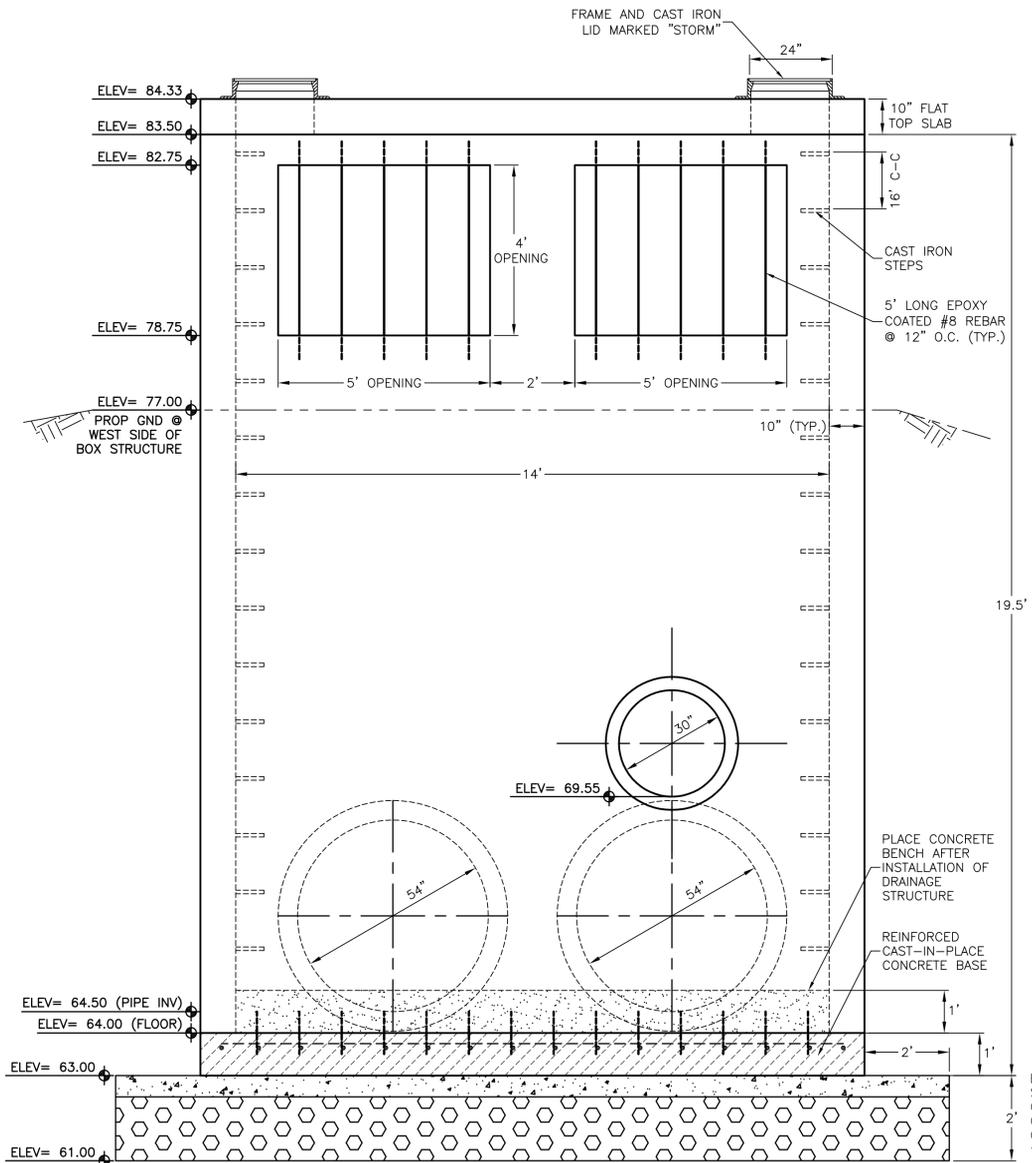


**SECTION A-A**

**SECTION B-B**

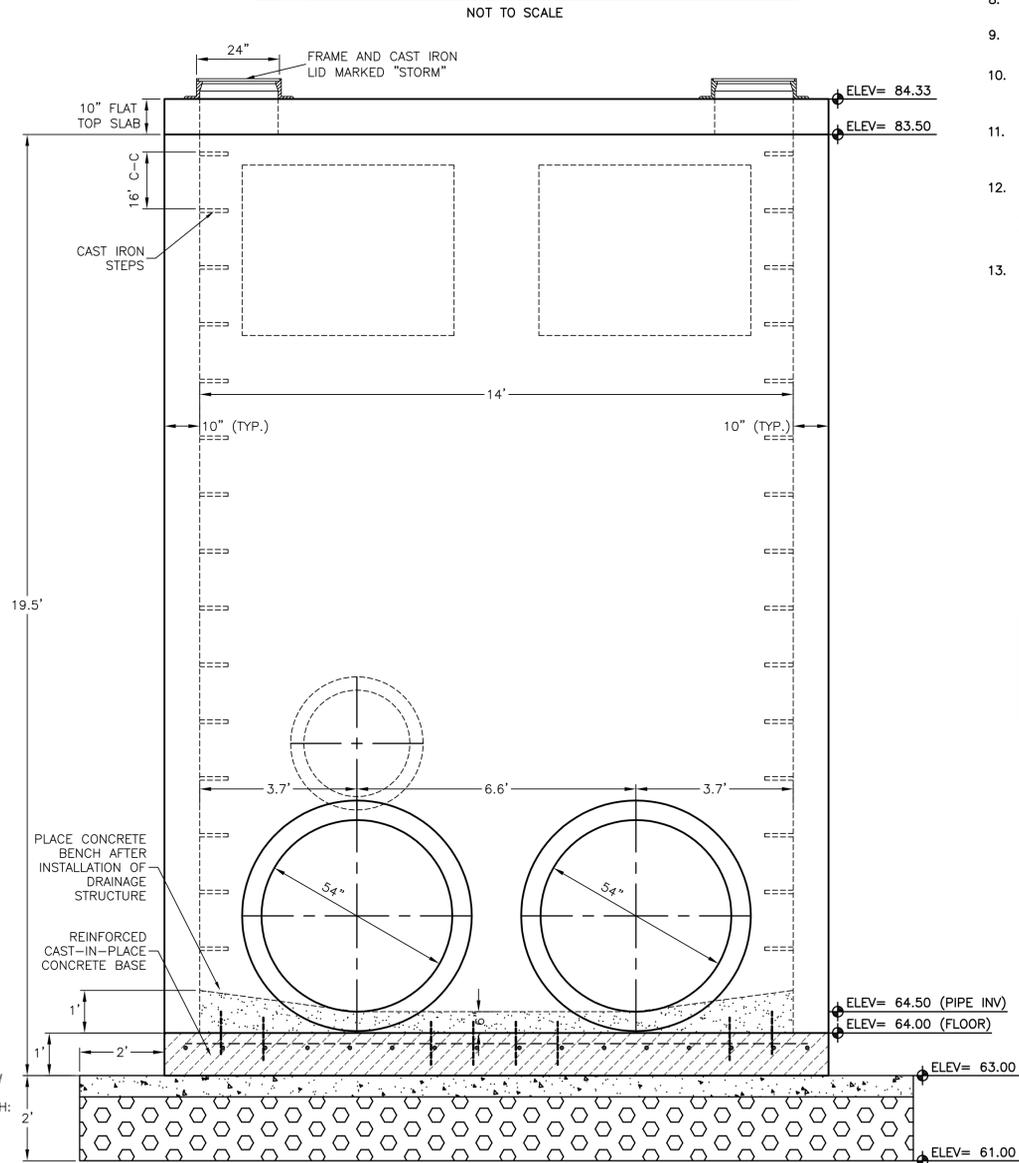
**CONCRETE BENCH AND REINFORCEMENT DETAIL**

NOT TO SCALE



**14' x 5' STORM BOX STRUCTURE WEST ELEVATION**

NOT TO SCALE



**14' x 5' STORM BOX STRUCTURE EAST ELEVATION**

NOT TO SCALE

**GENERAL NOTES FOR PRECAST DRAINAGE STRUCTURE (SPECIAL)**

1. PRECAST REINFORCED BOX SECTIONS SHALL CONFORM TO THE APPLICABLE REQUIREMENTS OF THE FOLLOWING SPECIFICATIONS.  
A. IDOT STANDARD SPECIFICATIONS FOR PRECAST CONCRETE STRUCTURES.  
B. AASHTO M-273 AND ASTM C-850 STANDARD SPECIFICATIONS FOR PRECAST REINFORCED CONCRETE BOX SECTIONS FOR CULVERTS, STORM DRAINS, AND SEWERS WITH LESS THAN 2 FT OF COVER SUBJECT TO HIGHWAY LOADINGS. HS 20 LOADING.  
C. AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, LATEST EDITION AND ANY SUBSEQUENT INTERIM EDITIONS.
2. MINIMUM CONCRETE STRENGTH WILL BE 5,000 P.S.I. AFTER 28 DAYS.
3. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO ASTM SPECIFICATION A185. LAPS, WELDS AND SPACING SHALL CONFORM TO ARTICLE 7.4 OF AASHTO M-273 AND ASTM C-850.
4. IF REINFORCING BARS ARE USED FOR DISTRIBUTION STEEL AND/OR EDGE BEAM REINFORCING THEY SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31 OR M-53, GRADE 60.
5. THE REINFORCEMENT AND CIRCULAR OPENINGS REQUIRED AT PIPE LOCATIONS AS SHOWN IN THE DETAIL WILL NOT BE PAID FOR SEPARATELY, BUT IS INCLUDED IN THE COST OF PRECAST DRAINAGE STRUCTURE (SPECIAL).
6. THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH MASTIC IN ACCORDANCE WITH ARTICLE 1055.01 OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
7. LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER BOX SECTIONS ARE IN PLACE.
8. CHAMFER ALL EXPOSED EDGES 3/4" MINIMUM.
9. EMBANKMENT/BACKFILL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
10. IN ACCORDANCE WITH ARTICLE 540.08, EXCAVATION FOR STRUCTURES WILL NOT BE PAID FOR SEPARATELY BUT IS INCLUDED IN THE UNIT PRICE FOR PRECAST DRAINAGE STRUCTURE (SPECIAL).
11. NOTE: CONTRACTOR HAS OPTION TO CONSTRUCT CAST-IN-PLACE STRUCTURE. CONTRACTOR MUST SUBMIT PROPOSED STRUCTURAL DESIGN, SIGNED AND SEALED BY A ILLINOIS LICENSED STRUCTURAL ENGINEER FOR REVIEW AND APPROVAL.
12. SOIL STRENGTH AND STABILITY SHALL BE DETERMINED BY A LICENSED GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTING DRAINAGE STRUCTURE. IF IT IS DETERMINED THAT ADDITIONAL STABILIZATION IS REQUIRED, THE CONTRACTOR SHALL BE PAID PER AN AGREED LUMP SUM AMOUNT FOR THE ADDITIONAL WORK. GEOTECHNICAL ANALYSIS SHALL BE CONSIDERED PART OF THE COST OF DRAINAGE STRUCTURE (SPECIAL).
13. CAST-IN-PLACE CONCRETE BASE SHALL BE REINFORCED WITH A MINIMUM OF 0.40 SQ. IN./FT IN BOTH DIRECTIONS WITH A MAXIMUM SPACING OF NINE INCHES.

THE PRECAST FABRICATOR SHALL FURNISH A COMPLETE SET OF SHOP DRAWINGS AND DESIGN CALCULATIONS WITH STRUCTURAL SEAL PRIOR TO FABRICATION. FABRICATOR SHALL ALSO BE RESPONSIBLE FOR REINFORCEMENT DESIGN OF CAST-IN-PLACE CONCRETE BASE.

<b>ROBINSON ENGINEERING, LTD.</b> CONSULTING REGISTERED PROFESSIONAL ENGINEERS AND PROFESSIONAL LAND SURVEYORS 17000 SOUTH PARK AVENUE SOUTH HOLLAND, ILLINOIS 60473 (708) 331-6700 FAX (708) 331-3826		<b>REVISIONS</b>	
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<b>WASHINGTON STREET / 23RD STREET DETENTION POND IMPROVEMENTS DETAILS - DRAINAGE STRUCTURE (SPECIAL)</b>			Remarks
<b>LASALLE ILLINOIS</b>			
Drawn by: JJB	Date: 2-8-2012		
Checked by: BDB	Scale: AS SHOWN		
Sheet 6 of 7	Project No. 12-251		

**EROSION CONTROL NOTES:**

WITHIN 24 HOURS FROM THE TIME SEEDING HAS BEEN PERFORMED, THE SEED AREA SHALL BE COVERED WITH EROSION CONTROL BLANKET OR TURF REINFORCEMENT MAT. THIS WORK SHALL BE PAID FOR SEPARATELY.

ALL EROSION CONTROL PRACTICES SHALL BE INSTALLED PRIOR TO STARTING EACH PHASE OF CONSTRUCTION.

ANY OBSERVED DISRUPTION TO THE EROSION CONTROL PRACTICES SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR.

ANY EXISTING SUBSURFACE DRAINAGE SYSTEM OR FIELD TILES THAT ARE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED.

ANY DUST OR MUD TRACKED ONTO STREETS SHALL BE CLEANED AT THE END OF EACH WORKING DAY.

ALL SOIL EROSION, AND SEDIMENTATION CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.

ALL SOIL SHALL BE STABILIZED WITHIN 7 DAYS OF SOIL DISTURBANCE.

STOCK PILES SHALL BE STABILIZED WITHIN 7 DAYS OF SOIL DISTURBANCE BY MEANS OF TEMPORARY SEEDING.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSPECTION AND MAINTENANCE OF EROSION CONTROL PRACTICES. REQUIRED INSPECTION REPORTS SHALL BE SUBMITTED TO THE CITY OF LASALLE.

ALL EROSION CONTROL PRACTICES SHALL BE INSPECTED WEEKLY AND AFTER ANY RAINFALL GREATER THAN 0.5".

THE SEEDING DATES FOR CLASS 2 AND CLASS 3 SEEDING SHALL BE FROM APRIL 1 TO JUNE 15 AND FROM AUGUST 1 TO NOVEMBER 1. THE SEEDING DATES FOR TEMPORARY SEEDING SHALL BE EARLY SPRING TO SEPTEMBER 30.

PERMANENT SEEDING SHALL BE FERTILIZED ACCORDING TO SECTION 250 OF IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

TEMPORARY SEEDING SHALL BE FERTILIZED ACCORDING TO SECTION 250 OF IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. (TO BE USED AT THE DISCRETION OF THE CITY OF LASALLE AND/OR CITY ENGINEER).

**STORM WATER POLLUTION PREVENTION NOTES:**

1. THE CONTRACTOR IS RESPONSIBLE FOR HAVING THE SWPPP ON SITE AT ALL TIMES.

2. THE CONTRACTOR SHALL TAKE THE NECESSARY STEPS TO CONTROL WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER AND SANITARY WASTE AT THE CONSTRUCTION SITE THAT MAY CAUSE ADVERSE IMPACTS TO WATER QUALITY.

**SEEDING MIXTURES SHALL BE AS FOLLOWS**

Class	Seeds	lbs/acre—Pure Live Seed
2A	Tall Fescue	60
	Perennial Ryegrass	50
	Creeping Red Fescue	40
	Red Top	10

Class	Seeds	lbs/acre—Pure Live Seed
3	Elymus Canadensis	5
	Perennial Ryegrass	20
	Alsike Clover	5
	Desmanthus Illinoensis	2
	Andropogon Scoparius	12
	Bouteloua Curtipendula	10
	Fult Salt Grass	30
	Oats, Spring	50
	Slender Wheat Grass	15
	Buffalo Grass (Cody or Bowie)	5

**TEMPORARY SEEDING MIXTURES SHALL BE AS FOLLOWS**

Class	Seeds	lbs/acre—Pure Live Seed
7	Perennial Ryegrass	50
	or Oats, Spring 4/	64

**SOIL PROTECTION CHART**

STABILIZATION TYPE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDING			A			*	*					
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C			*	D*					
SODDING			E **									
MULCHING	F											

A. CLASS 1 & 3 SEEDING

C. CLASS 7

D. CLASS 7

B. KENTUCKY BLUEGRASS  
135 LBS/AC MIXED WITH  
PERENNIAL RYEGRASS  
45 LBS/AC + 2 TONS  
STRAW MULCH/AC

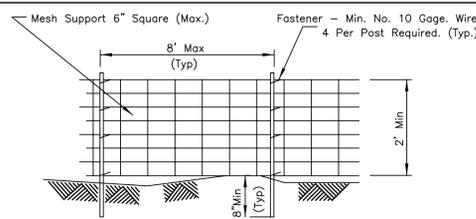
E. SOD (NURSERY GROWN KENTUCKY  
BLUEGRASS)

F. STRAW MULCH 2 TONS/AC

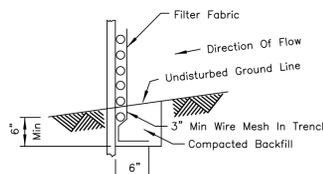
\* IRRIGATION NEEDED DURING JUNE and JULY

\*\* IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD

**SILT FENCE WITH WIRE SUPPORT PLAN**



ELEVATION



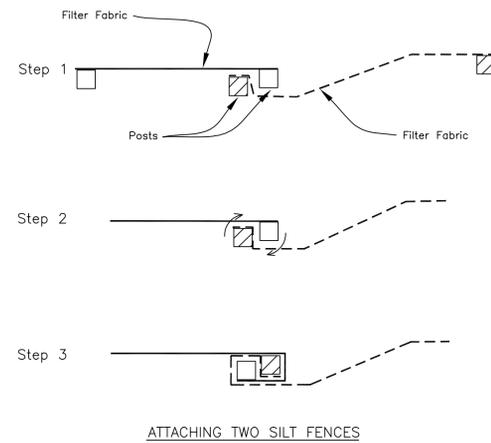
FABRIC ANCHOR DETAIL

NOTES:

1. Wires of mesh support shall be min. gage no. 12.
2. 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.
3. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class with equivalent opening size of at least 30 for nonwoven and 50 for woven.
4. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE Project _____ Date _____	<p><b>NRCS</b> Natural Resource Conservation Service</p>	STANDARD DWG. NO. IL-620W
Designed _____ Date _____		SHEET 1 OF 2
Checked _____ Date _____		DATE 3-3-95
Approved _____ Date _____		

**SILT FENCE**

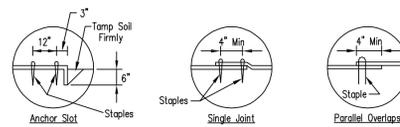
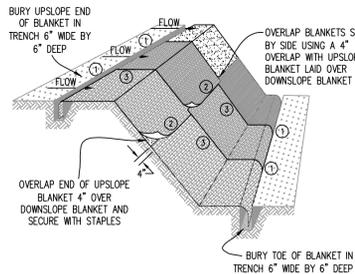


ATTACHING TWO SILT FENCES

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 flap.

REFERENCE Project _____ Date _____	<p><b>NRCS</b> Natural Resource Conservation Service</p>	STANDARD DWG. NO. IL-620(W)
Designed _____ Date _____		SHEET 2 OF 2
Checked _____ Date _____		DATE 1-29-99
Approved _____ Date _____		



DETAIL 1

DETAIL 2

DETAIL 3

STAPLE DETAIL

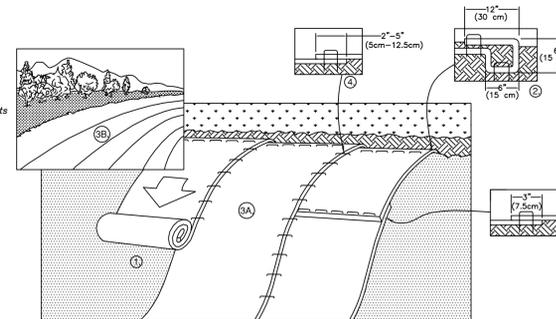
PUSH PIN DETAIL

NOTES:

1. Staples shall be placed in a diamond pattern at 2 per s.y. for stitched blankets. Non-stitched shall use 4 staples per s.y. of material. This equates to 200 staples with stitched blanket and 400 staples with non-stitched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

<p><b>NORTH AMERICAN GREEN</b> EROSION CONTROL Products Guaranteed SOLUTIONS 14649 HIGHWAY 41 NORTH EVANSVILLE, IN 47725 800-772-2040 www.na-green.com</p>	EROSION CONTROL BLANKET INSTALLATION DETAILS	
	Drawn: L. J. JONES	Scale: AS SHOWN
	Checked: _____	Project No. _____
	Approved: _____	

**SLOPE INSTALLATION  
APLICACIONES PARA TALUDES**



1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECP's), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.  
NOTE: WHEN USING CELL-0-SEED DO NOT SEED PREPARED AREA. CELL-0-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECP's IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30CM) OF RECP's EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE RECP's WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF RECP'S BACK OVER SEED AND COMPACTED SOIL. SECURE RECP'S OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE RECP's.
3. ROLL THE RECP's (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECP's WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECP's MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM\*, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL RECP's MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON RECP's TYPE.
5. CONSECUTIVE RECP's SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE RECP's WIDTH.

NOTE:  
\*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE RECP's.

REV. 01/05

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