

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	9	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.		

VILLAGE OF ORLAND PARK
PUBLIC WORKS DEPARTMENT
DIVISION OF HIGHWAYS
PROPOSED
FOX'S STORM SEWER CONNECTION

143RD STREET & RAVINIA AVENUE
COOK COUNTY

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- 7 PLAN AND PROFILE
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IDOT STANDARDS

- 280001-05 TEMPORARY EROSION CONTROL SYSTEMS
- 420001-07 PAVEMENT JOINTS
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VILLAGE OF ORLAND PARK DETAILS

- STS-01 STORM MANHOLE
- STS-02 CATCH BASIN TYPE A
- STS-03 CATCH BASIN TYPE A STEP DETAIL
- STS-06 FLAT TOP SLAB
- STS-11 TRENCH SECTION
- STS-14 STORM SEWER FRAME & GRATE
- STR-04 B-6.12 CURB & GUTTER

SITE BENCHMARK

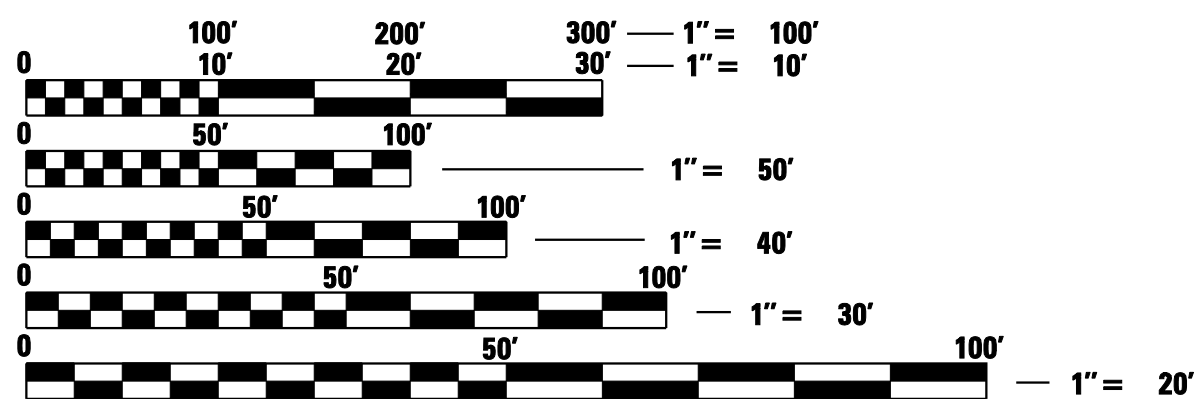
SITE BENCHMARK: SANITARY MANHOLE RIM OF SMH 6077 IN THE EAST PARKWAY OF RAVINIA AVE. APPROXIMATELY 320 SOUTH OF THE EDGE OF PAVEMENT FOR 143RD ST. ELEVATION = 694.54



PROJECT SITE
FOX'S
RESTAURANT

VILLAGE OFFICIALS

- | | |
|-------------------------|---------------|
| DANIEL J. MCLAUGHLIN | MAYOR |
| DAVID P. MAHER | VILLAGE CLERK |
| KATHLEEN M. FENTON | TRUSTEE |
| BRAD S. O'HALLORAN | TRUSTEE |
| JAMES V. DODGE JR. | TRUSTEE |
| EDWARD G. SCHUSSLER III | TRUSTEE |
| PATRICIA GIRA | TRUSTEE |
| CAROLE GRIFFIN RUZICH | TRUSTEE |



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

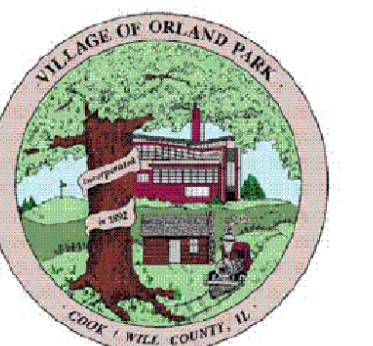
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT MANAGER – GREG WOLTERSTORFF, P.E.

LOCATION MAP

N.T.S.

REVISED APRIL 20, 2012



Vista, Virtute, Virtute... The Vision to Transform with Excellence!

GENERAL NOTES

- ALL EXISTING SITE TOPOGRAPHY, UTILITIES, RIGHT-OF-WAY AND HORIZONTAL CONTROL SHOWN ON THE DRAWINGS WERE OBTAINED FROM SURVEY DATA PREPARED BY:

V3 COMPANIES, LTD.
7325 JAMES AVENUE, SUITE 100
WOODRIDGE, ILLINOIS 60517
TEL: 630/724-9200 / FAX: 630/724-9202

COPIES OF THE SURVEY ARE AVAILABLE FROM THE ENGINEER.
- ALL EXISTING TOPOGRAPHY, UNDERGROUND UTILITIES, STRUCTURES AND ASSOCIATED FACILITIES SHOWN ON THESE DRAWINGS HAVE BEEN PLOTTED FROM AVAILABLE SURVEYS AND RECORDS. THEREFORE, THEIR LOCATIONS AND ELEVATIONS MUST BE CONSIDERED APPROXIMATE ONLY. THERE MAY BE OTHER FACILITIES, THE EXISTENCE OF WHICH ARE NOT PRESENTLY KNOWN. CONTRACTOR IS TO VERIFY ALL EXISTING STRUCTURES AND FACILITIES AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING HIS WORK.
- THE CONTRACTOR SHALL SUBSCRIBE TO ALL GOVERNING REGULATIONS AND SHALL OBTAIN ALL NECESSARY PUBLIC AGENCY PERMITS. THE CONTRACTOR, BY USING THESE PLANS FOR THEIR WORK, AGREE TO HOLD HARMLESS V3 COMPANIES, LTD., THE VILLAGE, THEIR EMPLOYEES AND AGENTS AND THE OWNER WHILE ACTING WITHIN THE SCOPE OF THEIR DUTIES FROM AND AGAINST ANY AND ALL LIABILITY, CLAIMS, DAMAGES, AND THE COST OF DEFENSE ARISING OUT OF CONTRACTOR(S) PERFORMANCE OF THE WORK DESCRIBED HEREIN, BUT NOT INCLUDING THE SOLE NEGLIGENCE OF THE OWNER, HIS AGENTS, THE ENGINEER, HIS EMPLOYEES AND AGENTS.
- ALL ELEVATIONS ARE BASED ON USGS DATUM. BENCHMARK LOCATIONS AND ELEVATIONS ARE SHOWN ON COVER SHEET.
- ALL APPLICABLE PROVISIONS OF THE CURRENT OCCUPATIONAL SAFETY AND HEALTH ACT ARE HEREIN INCORPORATED BY REFERENCE.
- THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", LATEST EDITION AT THE TIME OF BID OPENING, AND ALL ADDENDA THERETO, SHALL GOVERN THE EARTHWORK AND PAVING WORK UNDER THIS CONTRACT, EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS.
- THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", LATEST EDITION AT TIME OF BID OPENING, SHALL GOVERN THE UNDERGROUND WORK UNDER THIS CONTRACT, EXCEPT AS MODIFIED BY THE SPECIAL PROVISIONS.
- NO BURNING OR INCINERATION OF RUBBISH WILL BE PERMITTED ON SITE.
- THE CONTRACTOR SHALL PROVIDE FOR THE SAFE AND ORDERLY PASSAGE OF TRAFFIC AND PEDESTRIANS WHERE HIS OPERATIONS ABUT PUBLIC THOROUGHFARES AND ADJACENT PROPERTY.
- ALL CONSTRUCTION WORK WITHIN PUBLIC RIGHT OF WAY SHALL CONFORM TO REQUIREMENTS IN THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND A APPROVED PLAN AS SUBMITTED BY THE CONTRACTOR TO THE VILLAGE
- CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A WAY AS TO PREVENT TRACKING OF MUD OR SOIL ONTO PUBLIC THOROUGHFARES. AT THE END OF EACH DAY OR AT THE REQUEST OF THE ENGINEER, THE CONTRACTOR SHALL CLEAN UP ALL MUD OR SOIL WHICH HAS BEEN TRACKED ONTO PUBLIC STREETS.
- PRIOR TO NEW WORK THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND ELEVATIONS AND VERIFY THE LOCATION AND ELEVATION OF EXISTING UTILITY LINES AND STRUCTURES TO BE CONNECTED TO PROPOSED WORK. DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY, ALL FIELD TILES ENCOUNTERED DURING EXCAVATION SHALL BE REPAIRED WHERE PRACTICABLE AND PROMPTLY REPORTED TO THE ENGINEER.
- BEFORE EXCAVATING OVER OR ADJACENT TO ANY EXISTING UTILITIES, NOTIFY THE OWNER OF SUCH UTILITIES TO ENSURE THAT PROTECTIVE WORK WILL BE COORDINATED AND PERFORMED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER OF THE UTILITY INVOLVED. IF ANY EXISTING SERVICE LINES, UTILITIES AND UTILITY STRUCTURES WHICH ARE TO REMAIN IN SERVICE ARE UNCOVERED OR ENCOUNTERED DURING THIS OPERATION, THEY SHALL BE SAFEGUARDED, PROTECTED FROM DAMAGE AND SUPPORTED IF NECESSARY.
- ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY EXISTING STORM DRAINAGE SYSTEM IN ACCORDANCE WITH THE EROSION CONTROL MEASURES INDICATED ON THE STANDARD DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT RESULTING FROM THIS PROJECT FROM STORM SEWERS AND DRAINAGE STRUCTURES.
- ALL CURB RADII REFER TO EDGE OF PAVEMENT.
- THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF ORLAND PARK 48 HOURS PRIOR TO ANY NEW CONSTRUCTION REQUIRING INSPECTION.
- AREAS OUTSIDE THE R.O.W. LINE OR CONSTRUCTION LIMIT LINE IMPACTED BY OPERATIONS OF THE CONTRACTOR SHALL BE RETURNED TO THE STATE IT WAS FOUND PRIOR TO NEW CONSTRUCTION.
- ALL TREES TO REMAIN SHALL BE PROTECTED FROM DAMAGE TO TRUNKS, BRANCHES AND ROOTS. NO EXCAVATING, FILLING OR GRADING IS TO BE DONE INSIDE THE DRIP LINE OF TREES UNLESS OTHERWISE INDICATED.
- STREET PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, AND, IF DAMAGED, SHALL BE REPLACED PROMPTLY IN CONFORMANCE WITH IDOT STANDARD SPECIFICATIONS IN MATERIALS AND WORKMANSHIP.
- PROVIDE SMOOTH VERTICAL CURVES THROUGH HIGH AND LOW POINTS INDICATED BY SPOT ELEVATIONS. PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES. AVOID RIDGES AND DEPRESSIONS.
- PROPOSED ELEVATIONS INDICATE FINISHED CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THICKNESS OF PROPOSED PAVING (ROADS, WALKS, DRIVES, ETC.) OR TOPSOIL AS SHOWN.

- ALL UNDERCUTS TO CONSIST OF REMOVAL OF UNSUITABLE MATERIAL, INSTALLATION OF NECESSARY POROUS GRANULAR EMBANKMENT, AND GEOTECHNICAL FABRIC FOR GROUND STABILIZATION.
- ALL PAVEMENT, CURB & GUTTER, SIDEWALK REMOVAL AND REPLACEMENT SHALL BE TO CLEAN, SAWCUT EDGES. ALL SAWCUTTING SHALL BE INCIDENTAL TO THE APPLICABLE PAY ITEM.

UTILITY NOTES

- OFFSETS AND RIM ELEVATIONS FOR PROPOSED STRUCTURES WITHIN THE CURB LINE ARE GIVEN AT THE EDGE OF PAVEMENT.
- PROVIDE TRENCH BACKFILL FOR ALL UTILITY LINES BENEATH OR WITHIN 2 FEET OF PAVED AREAS PER DETAIL ON DRAWING.
- CONTRACTOR SHALL MAINTAIN ACCURATE RECORDS OF ALL UNDERGROUND UTILITY CONSTRUCTION AND SUBMIT "RECORD" INFORMATION TO ENGINEER FOR USE IN PREPARING "RECORD DRAWINGS".
- UNLESS OTHERWISE SHOWN ON PLANS, MINIMUM COVER OVER WATER MAIN SHALL BE 5' - 6" FROM FINISHED GRADE TO TOP OF PIPE. MAXIMUM COVER SHALL BE 8' - 0" FROM FINISHED GRADE TO TOP OF PIPE.
- ALL EXCESS OR WASTE MATERIAL SHALL BE DISPOSED OF OFFSITE BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 202.03 OF THE SSRBC AND SHALL BE CONSIDERED INCIDENTAL TO THE APPLICABLE PAY ITEM.
- DEWATERING AND SUPPORT OF ALL TRENCHES AND EXCAVATIONS SHALL BE CONSIDERED INCIDENTAL TO THE APPLICABLE PAY ITEM.

STORM SEWER NOTES

- SEWERS 24-INCHES IN DIAMETER AND LARGER SHALL BE REINFORCED CONCRETE PIPE CONFORMING TO ASTM DESIGNATION C-76, CLASS III WALL-B WITH O-RING JOINTS AT A MINIMUM.
- SEWER MANHOLES & CATCH BASINS SHALL BE PRECAST REINFORCED CONCRETE STORM SEWER COMPLYING WITH ASTM DESIGNATION C-433. MANHOLES SHALL BE SUPPLIED WITH RESILIENT RUBBER BOOTS COMPLYING WITH ASTM DESIGNATION C-923.
- STORM STRUCTURE TOPS SHALL BE PRECAST CONCRETE, ECCENTRIC CONE OR FLAT SLAB TOP TYPE.
- STORM STRUCTURE MANHOLES SHALL HAVE CAST IRON STEPS WITH ASPHALT COATING INTEGRALLY CAST INTO THE SIDEWALLS.
- STRUCTURE FRAME AND COVERS SHALL BE GREY CAST-IRON CONFORMING TO ASTM A-48, CLASS 30B NON-ROCKING BEARING SURFACES, TYPE AND STYLE AS INDICATED ON THE DRAWING WITH CAST-IN LEGEND 7/32 CHICAGO SEWER 9/32 ON ROADWAY FACE.
- VILLAGE PERSONEL WILL HAVE THE RIGHT TO INSPECT THE PORTIONS OF THE REGULATED DEVELOPMENT SUBJECT TO THE PLAN WITHOUT PRIOR NOTICE DURING CONSTRUCTION HOURS. INSPECTIONS BOTH DURING AND AFTER CONSTRUCTION, WILL BE CONDUCTED ON SELECTED SITES AS DETERMINED BY THE VILLAGE.

PAY ITEMS & ESTIMATED QUANTITIES

IDOT Item No.	Items	Unit	Quantity
20800150	TRENCH BACKFILL	CU YD	290.00
28000400	PERIMETER EROSION BARRIER, SILT FENCE	FOOT	60.00
35101800	AGGREGATE BASE COURSE, TYPE A, 4"	SQ YD	45.00
35101800	AGGREGATE BASE COURSE, TYPE A, 10"	SQ YD	266.00
35101800	AGGREGATE BASE COURSE, TYPE A, 12"	SQ YD	16.00
40603080	HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50	TON	33.00
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	32.00
42000100	PORTLAND CEMENT CONCRETE PAVEMENT 8"	SQ YD	16.00
44000100	PAVEMENT REMOVAL	SQ YD	282.00
55101200	STORM SEWER REMOVAL, 24"	FOOT	30.00
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	290.00
67100100	MOBILIZATION	L SUM	1.00
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.00
Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	1.00
	EROSION CONTROL - INLET BASKET FILTER	EACH	2.00
	TRAFFIC CONTROL AND PROTECTION	L SUM	1.00
	SPECIAL MANHOLE, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1.00
	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	2.00
	CATCH BASIN, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1.00
	B-6.12 CURB AND GUTTER	LF	10.00
	143RD STREET PAVEMENT PATCH	EACH	1.00
	FILL DRAINAGE STRUCTURE	EACH	3.00
	BULK HEAD PIPE	EACH	8.00
	SLURRY 24" PIPE	LF	154.00
	STORM SEWER - 12" RCP	FOOT	104.00
	STORM SEWER - 24" RCP	FOOT	35.00
	STORM SEWER - HDPE ROOF DRAINS	FOOT	80.00

CONSTRUCTION SCHEDULING

- PROJECT SHALL BE PERFORMED AS NIGHT WORK BETWEEN THE HOURS OF 10PM AND 10AM. NO WORK ALLOWED ON OFF HOURS.
- PROJECT SHALL BE PERFORMED BETWEEN SUNDAY NIGHT AT 10PM AND FRIDAY MORNING AT 10 AM TO AVOID WEEKEND HOURS FOR RESTAURANT TRAFFIC.
- BY 10AM EACH DAY DURING CONSTRUCTION, THE CONTRACTOR SHALL COVER ALL OPEN TRENCHES AND TEMPORARY STONE WITH STEEL PLATES ON PRIVATE PARKING.
- STAGING AREA FOR EQUIPMENT AND MATERIAL SHALL BE PROVIDED IN THE PARKING LOT TO THE NORTH OF 143RD STREET. LOCATION SHALL BE INDICATED BY THE VILLAGE AT THE TIME OF CONTRACT AWARD.
- DELIVERY ROUTE TO CONCRETE PAD AT SOUTH EAST CORNER OF BUILDING MUST BE ACCESSIBLE EVERY DAY STARTING AT 10AM.

LEGEND

EXISTING	PROPOSED	DESCRIPTION
---	---	RIGHT-OF-WAY LINE
---	---	PROPERTY LINE (EXTERIOR)
---	---	LOT LINE (INTERIOR)
---	---	EASEMENT LINE
---	---	FENCE LINE
---	---	CENTERLINE
---	---	PROPERTY CORNER
---	---	CONTOUR
---	---	CURB
---	---	DEPRESSED CURB
---	---	REVERSE PITCHED CURB
---	---	SPOT ELEVATION
---	---	UTILITY STUB
---	---	SANITARY SEWER
---	---	SANITARY FORCE MAIN
---	---	STORM SEWER
---	---	WATER MAIN
---	---	GAS MAIN
---	---	UNDERGROUND TELEPHONE & ELECTRIC DUCT BANK
---	---	BURIED CABLE-ELECTRIC
---	---	BURIED CABLE-TELEPHONE
---	---	UTILITY STRUCTURE WITH CLOSED LID
---	---	DRAINAGE STRUCTURE (CURB TYPE)
---	---	DRAINAGE STRUCTURE WITH OPEN LID
---	---	FIRE HYDRANT
---	---	VALVE IN VALVE BOX
---	---	GATE VALVE IN VALVE VAULT
---	---	POST INDICATOR VALVE
---	---	THRUST BLOCK
---	---	TREE
---	---	TREE LINE
---	---	CONCRETE HEADWALL
---	---	SUBMERGED HEADWALL
---	---	FLARED END SECTION (F.E.S.)
---	---	PORT WIRES
---	---	FLOOD LIGHT
---	---	UTILITY POLE
---	---	LIGHT STANDARD
---	---	TRAFFIC SIGNAL POLE
---	---	HAND HOLE
---	---	SOIL BORING
---	---	IRRIGATION HEADS
---	---	SIGN
---	---	TELEPHONE MANHOLE
---	---	MONITORING WELL
---	---	TELEPHONE PEDESTAL
---	---	TRANSFORMER PAD
---	---	UTILITY TO BE ABANDONED
---	---	FEATURE TO BE REMOVED
---	---	STORMWATER FLOW DIRECTION
---	---	STORMWATER OVERFLOW ROUTE
---	---	STRAWBALE DITCH CHECK
---	---	STRAW BALE SEDIMENTATION TRAP
---	---	SILT FENCE
---	---	WATER MAIN PROTECTION
---	---	TRENCH BACKFILL
---	---	UTILITY CROSSING
---	---	GUARDRAIL
---	---	RAILROAD TRACKS
---	---	REVISION DELINEATION
---	---	CONSTRUCTION LIMIT LINE

ABBREVIATIONS

B-B	BACK TO BACK OF CURB
B/C	BACK OF CURB
BLOG	BUILDING
BM	BENCHMARK
BV/VV	BUTTERFLY VALVE IN VALVE VAULT
C & G	CURB AND GUTTER
CB	CATCH BASIN
CL	CENTERLINE
CLD	CLOSED LID
DP	DUCTILE IRON PIPE
DIA.	DIAMETER
DIWM	DUCTILE IRON WATER MAIN
DWG.	DRAWING
E	EAST OR ELECTRIC
EJ	EXPANSION JOINT
ELEV.	ELEVATION
E/P	EDGE OF PAVEMENT
EX.	EXISTING
F & G	FRAME & GRATE
FES	FLARED END SECTION
F-F	FACE TO FACE OF CURB
F.F.	FINISHED FLOOR
F/G	FINISHED GRADE
FH	FIRE HYDRANT
F/L	FLOW LINE
FO	FIRE OPTIC CABLE
G	GAS LINE
GV/VB	GATE VALVE IN VALVE BOX
GV/VV	GATE VALVE IN VALVE VAULT
HDOP	HANDCAP
HDPE	HIGH DENSITY POLYETHYLENE PIPE
HDW	HEADWALL
HOR.	HORIZONTAL
HP	HIGH POINT
HWL	HIGH WATER LEVEL
IN	INVERT ELEVATION
IN	INLET
LF	LINEAL FEET
LP	LOW POINT OR LIGHT POLE
L	LEFT
MH	MANHOLE
MW	MONITORING WELL
N	NORTH
N.C.	NOT IN CONTRACT / NOT INCLUDED
NWL	NORMAL WATER LEVEL
O.C.	ON CENTER
OL	OPEN LID
PC	POINT OF CURVATURE
PCC	PORTLAND CEMENT CONCRETE
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
P.U.E.	PUBLIC UTILITY EASEMENT
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
R	RADIUS OR RIGHT
RCP	REINFORCED CONCRETE PIPE
R.O.W.	RIGHT OF WAY
S	SLOPE OR SOUTH
SAN	SANITARY
SF	SILTATION FENCE
SFM	SANITARY FORCE MAIN
SHT	SHEET
SHW	SUBMERGED HEADWALL
SMH	SANITARY MANHOLE
STA.	STATION
ST	STORM STRUCTURE OR STORM SEWER
STMH	STORM MANHOLE
T	TANGENT LENGTH OR TELEPHONE
T/C	TOP OF CURB
T/P	TOP OF PIPE
TY	TYPE
TYP	TYPICAL
RCP	REINFORCED CONCRETE PIPE
UP	UTILITY POLE
VB	VALVE BOX
VC	VERTICAL CURVE
VERT.	VERTICAL
VV	VALVE VAULT
W	WEST
WM	WATER MAIN



DESIGNED	-	GVW	REVISED	-
DRAWN	-	NS	REVISED	-
CHECKED	-	GVW	REVISED	-
DATE	-	04/20/12	REVISED	-

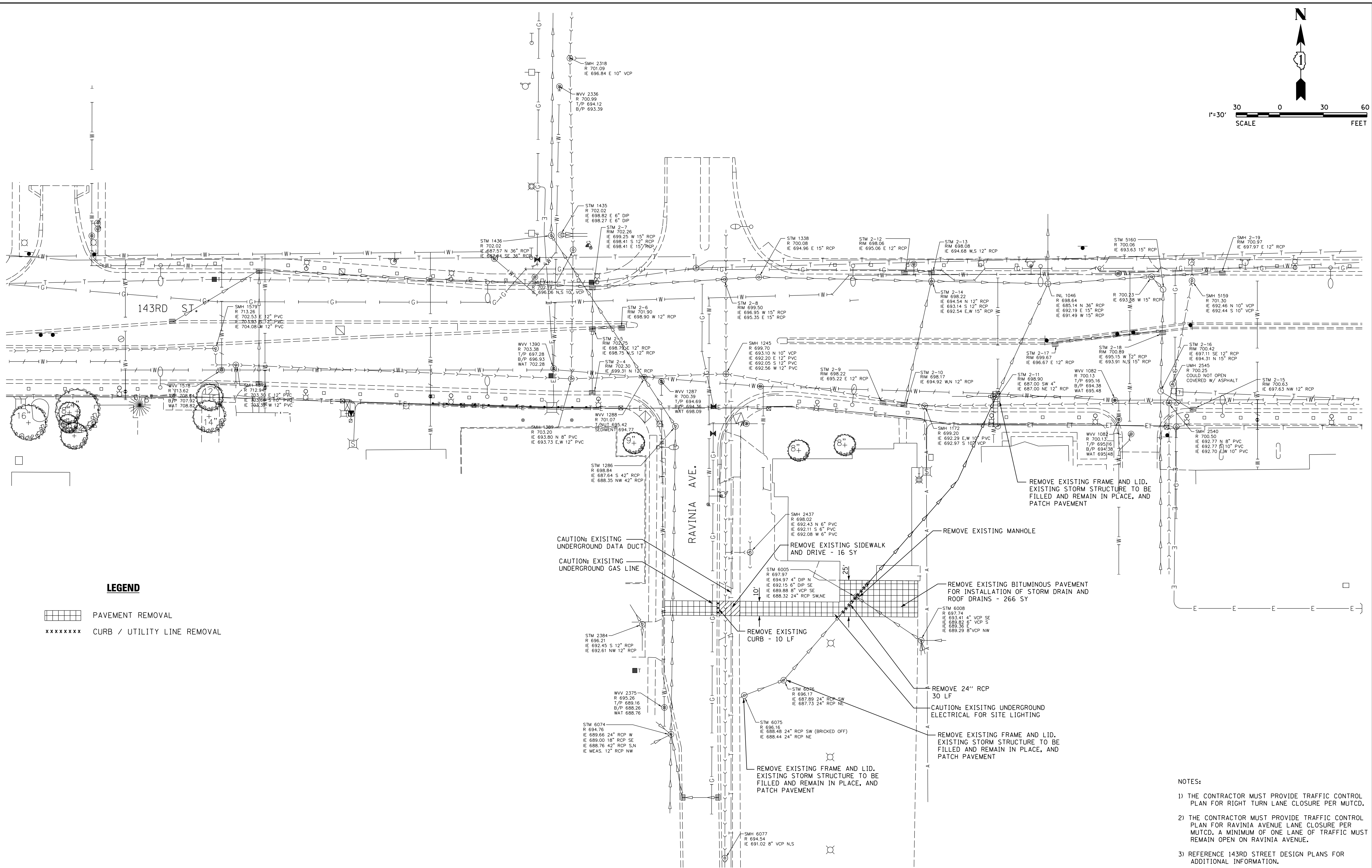
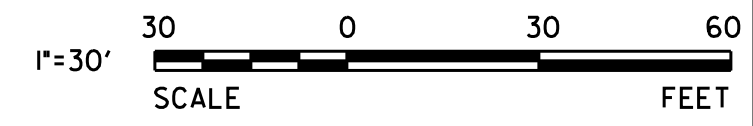
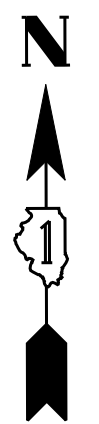
VILLAGE OF ORLAND PARK

FOX'S STORM SEWER CONNECTION GENERAL NOTES AND LEGEND

SCALE: NTS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	9	2

ILLINOIS



LEGEND

- PAVEMENT REMOVAL
- CURB / UTILITY LINE REMOVAL

CAUTION: EXISTING UNDERGROUND DATA DUCT
 CAUTION: EXISTING UNDERGROUND GAS LINE

REMOVE EXISTING FRAME AND LID. EXISTING STORM STRUCTURE TO BE FILLED AND REMAIN IN PLACE, AND PATCH PAVEMENT

REMOVE EXISTING MANHOLE

REMOVE EXISTING SIDEWALK AND DRIVE - 16 SY

REMOVE EXISTING BITUMINOUS PAVEMENT FOR INSTALLATION OF STORM DRAIN AND ROOF DRAINS - 266 SY

REMOVE EXISTING CURB - 10 LF

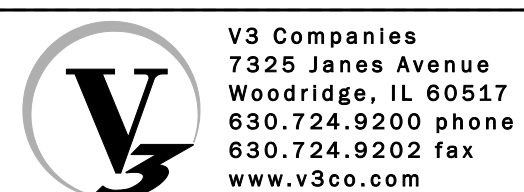
REMOVE 24" RCP 30 LF

CAUTION: EXISTING UNDERGROUND ELECTRICAL FOR SITE LIGHTING

REMOVE EXISTING FRAME AND LID. EXISTING STORM STRUCTURE TO BE FILLED AND REMAIN IN PLACE, AND PATCH PAVEMENT

REMOVE EXISTING FRAME AND LID. EXISTING STORM STRUCTURE TO BE FILLED AND REMAIN IN PLACE, AND PATCH PAVEMENT

- NOTES:**
- 1) THE CONTRACTOR MUST PROVIDE TRAFFIC CONTROL PLAN FOR RIGHT TURN LANE CLOSURE PER MUTCD.
 - 2) THE CONTRACTOR MUST PROVIDE TRAFFIC CONTROL PLAN FOR RAVINIA AVENUE LANE CLOSURE PER MUTCD. A MINIMUM OF ONE LANE OF TRAFFIC MUST REMAIN OPEN ON RAVINIA AVENUE.
 - 3) REFERENCE 143RD STREET DESIGN PLANS FOR ADDITIONAL INFORMATION.



V3 Companies
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 Woodridge, IL 60517
 630.724.9200 phone
 630.724.9202 fax
 www.v3co.com

DESIGNED - GWW	REVISED -
DRAWN - NS	REVISED -
CHECKED - GWW	REVISED -
DATE - 04/20/12	REVISED -

VILLAGE OF ORLAND PARK

**FOX'S STORM SEWER CONNECTION
 EXISTING CONDITIONS AND REMOVALS**

SCALE: 1" = 30'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	9	3
ILLINOIS				

STORM WATER POLLUTION PREVENTION NOTES

1. SITE DESCRIPTION:

- A. THE ACTIVITY WILL CONSIST OF A NEW 12" STORM LINE TO CONNECT FOX'S DRAINAGE TO 48" STORM LINE IN RAVINIA AVE. THE PROJECT IS LOCATED WITHIN THE VILLAGE OF ORLAND PARK, COOK COUNTY, ILLINOIS AT THE NORTHERN EXTENT OF RAVINIA AVE SOUTHWEST OF THE INTERSECTION OF 143RD ST. AND LAGRANGE RD.
- B. THE INTENDED SEQUENCE OF CONSTRUCTION ACTIVITIES IS AS FOLLOWS: 1) INSTALL INLET FABRIC, 2) REMOVALS 3) UTILITY CONSTRUCTION, 4) ROADWAY CONSTRUCTION, 4) RESTORATION, 5) EROSION CONTROL REMOVAL.
- C. THE PROJECT AREA THAT IS EXPECTED TO BE DISTURBED DURING CONSTRUCTION IS APPROXIMATELY 0.8 ACRES.
- D. NO CHANGE IN DRAINAGE PATTERNS WILL OCCUR TO THIS CONSTRUCTION.
- E. THE RECEIVING WATER IS MCGINNIS SLOUGH.

2. CONTROLS:

- A. EROSION AND SEDIMENT CONTROLS.
 - (I) STABILIZATION PRACTICES
 - THE SILT FENCE AND INLET PROTECTION WILL BE INSTALLED BEFORE GRADING ACTIVITIES BEGIN.
 - B. STORM WATER MANAGEMENT
 - (I) EXISTING DRAINAGE PATTERNS SHOULD BE MAINTAINED.
 - C. OTHER CONTROLS.
 - (I) WASTE DISPOSAL. NO SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE DISCHARGED TO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT.
 - (II) THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH APPLICABLE STATE AND/OR LOCAL WASTE DISPOSAL AND SANITARY SEWER OR SEPTIC SYSTEM REGULATIONS.
 - D. ENVIRONMENTAL PROTECTION AGENCY'S ILLINOIS URBAN MANUAL, LATEST EDITION IN THE EVENT OF CONFLICTING SPECIFICATIONS WITH REGARD TO SITEWORK ISSUES DESIGNED BY THE ENGINEER, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.

3. MAINTENANCE:

THE CONTRACTOR SHALL MAINTAIN THE SEDIMENT AND EROSION CONTROL MEASURES IDENTIFIED ON THIS PLAN UNTIL THE SITE IS STABILIZED. ITEMS IN NEED OF REPAIR SHALL BE ADDRESSED AS SOON AS PRACTICABLE. MAINTENANCE ITEMS INCLUDE SILT FENCE AND VEGETATION THROUGHOUT THE SITE. FURTHERMORE, ANY SOIL THAT IS TRANSPORTED OFFSITE SHALL BE CLEANED DAILY, OR AS REQUESTED BY THE LOCAL AGENCY.

4. INSPECTIONS:

- A. QUALIFIED PERSONNEL (PROVIDED BY THE PERMITTEE) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES OR GREATER OR EQUIVALENT SNOWFALL. QUALIFIED PERSONNEL MEANS A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICE OF EROSION AND SEDIMENT CONTROLS, SUCH AS A LICENSED PROFESSIONAL ENGINEER OR OTHER KNOWLEDGEABLE PERSON WHO POSSESSES THE SKILLS TO ASSESS CONDITIONS AT THE CONSTRUCTION SITE THAT COULD IMPACT STORM WATER QUALITY AND TO ASSESS THE EFFECTIVENESS OF ANY SEDIMENT AND EROSION CONTROL MEASURES SELECTED TO CONTROL THE QUALITY OF STORM WATER DISCHARGES FROM THE CONSTRUCTION ACTIVITIES.
- B. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFFSITE SEDIMENT TRACKING. RAVINIA AVE. AND 161ST ST. SHOULD BE KEPT CLEAN AND FREE OF DEBRIS AT ALL TIMES.
- C. BASED ON THE RESULTS OF THE INSPECTION, THE DESCRIPTION OF POTENTIAL POLLUTANT SOURCES IDENTIFIED IN THE PLAN IN ACCORDANCE WITH PARAGRAPH 1 (SITE DESCRIPTION) OF THESE NOTES AND POLLUTION PREVENTION MEASURES IDENTIFIED IN THE PLAN IN ACCORDANCE WITH PARAGRAPH 2 (CONTROLS) OF THESE NOTES SHALL BE REVISED AS APPROPRIATE AS SOON AS PRACTICABLE AFTER SUCH INSPECTION. SUCH MODIFICATIONS SHALL PROVIDE FOR TIMELY IMPLEMENTATION OF ANY CHANGES TO THE PLAN WITHIN 7 CALENDAR DAYS FOLLOWING THE INSPECTION.
- D. A REPORT SUMMARIZING THE SCOPE OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PARAGRAPH C ABOVE SHALL BE MADE AND RETAINED AS PART OF THE STORM WATER POLLUTION PREVENTION PLAN FOR AT LEAST THREE YEARS FROM THE DATE THAT THE PERMIT COVERAGE EXPIRES OR IS TERMINATED THE REPORT SHALL BE SIGNED BY THE PERMITEE.
- E. THE PERMITTEE SHALL COMPLETE AND SUBMIT WITHIN 5 DAYS AN "INCIDENCE OF NONCOMPLIANCE" (ION) REPORT FOR ANY VIOLATION OF THE STORM WATER POLLUTION PREVENTION PLAN OBSERVED DURING AN INSPECTION CONDUCTED, INCLUDING THOSE NOT REQUIRED BY THE PLAN SUBMISSION. REPORTS SHALL BE ON FORMS PROVIDED BY THE AGENCY AND INCLUDE SPECIFIC INFORMATION ON THE CAUSE OF NONCOMPLIANCE, ACTIONS WHICH WERE TAKEN TO PREVENT ANY FURTHER CAUSES OF NONCOMPLIANCE, AND A STATEMENT DETAILING ANY ENVIRONMENTAL IMPACT THAT MAY HAVE RESULTED FROM THE NONCOMPLIANCE.
- F. ALL REPORTS OF NONCOMPLIANCE SHALL BE SIGNED BY THE PERMITTEE.
- G. ALL REPORTS OF NONCOMPLIANCE SHALL BE MAILED TO THE AGENCY AT THE FOLLOWING ADDRESS:

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
 DIVISION OF WATER POLLUTION CONTROL
 COMPLIANCE ASSURANCE SECTION
 1021 NORTH GRAND AVENUE EAST
 POST OFFICE BOX 19276
 SPRINGFIELD, ILLINOIS 62794-9276

5. NON-STORM WATER DISCHARGES:

THE FOLLOWING SOURCES OF NON-STORMWATER MAY BE COMBINED WITH STORMWATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY ADDRESSED IN THIS PLAN.

- FIRE FIGHTING ACTIVITIES
- WATER MAIN HYDRANT FLUSHING
- WATERING FOR DUST CONTROL
- IRRIGATION DRAINAGE FOR VEGETATIVE GROWTH
- WASH WATER WHERE DETERGENTS ARE NOT USED
- UNCONTAMINATED GROUND WATER

NON-FIRE FIGHTING DISCHARGES FROM WATER MAINS AND PUMPS SHALL NOT BE PERMITTED TO FLOW DIRECTLY ONTO THE SOIL WITHOUT ENERGY DISSIPATORS SUFFICIENT TO REDUCE VELOCITIES TO A NON-EROSIVE RATE. ALL WATER PUMPED OF WHICH IS OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED AND A MEANS PROVIDED TO REDUCE EROSION.

6. RETENTION OF RECORDS:

- A. THE PERMITTEE SHALL RETAIN COPIES OF STORM WATER POLLUTION PREVENTION PLANS AND ALL REPORTS AND NOTICES REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIODS OF AT LEAST THREE YEARS FROM THE DATE THAT THE PERMIT COVERAGE EXPIRES OR IS TERMINATED. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE AGENCY AT ANY TIME.
- B. THE PERMITTEE SHALL RETAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN.

7. NOTICE OF TERMINATION

UPON FINAL STABILIZATION OF THE SITE THE PERMITTEE SHALL SUBMIT A COMPLETED NOTICE OF TERMINATION IN ACCORDANCE WITH NPDES PERMIT NO. ILR10.

8. CERTIFICATION STATEMENT

THE FOLLOWING STATEMENT SHALL BE SIGNED PRIOR TO ANY WORK AUTHORIZED BY THE NPDES PERMIT NO. ILR10 IS PERFORMED AT THE SITE. THE UNDERSIGNED IS RESPONSIBLE FOR IMPLEMENTATION OF ALL MEASURES IDENTIFIED ON THIS PLAN.

CONTRACTOR CERTIFICATION STATEMENT

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT (ILR10) THAT AUTHORIZES THE STORMWATER DISCHARGES ASSOCIATED WITH THE INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

DATED THIS _____ DAY OF _____ 20 ____

BY: _____ TITLE: _____

COMPANY: _____

ADDRESS: _____

TELEPHONE: _____

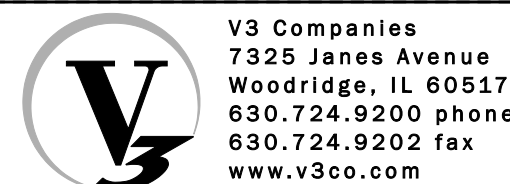
ADDITIONAL REQUIRED SIGNATURES:

OWNER DATE

SUBCONTRACTOR DATE

SUBCONTRACTOR DATE

SUBCONTRACTOR DATE



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 7325 James Avenue
 Woodridge, IL 60517
 630.724.9200 phone
 630.724.9202 fax
 www.v3co.com

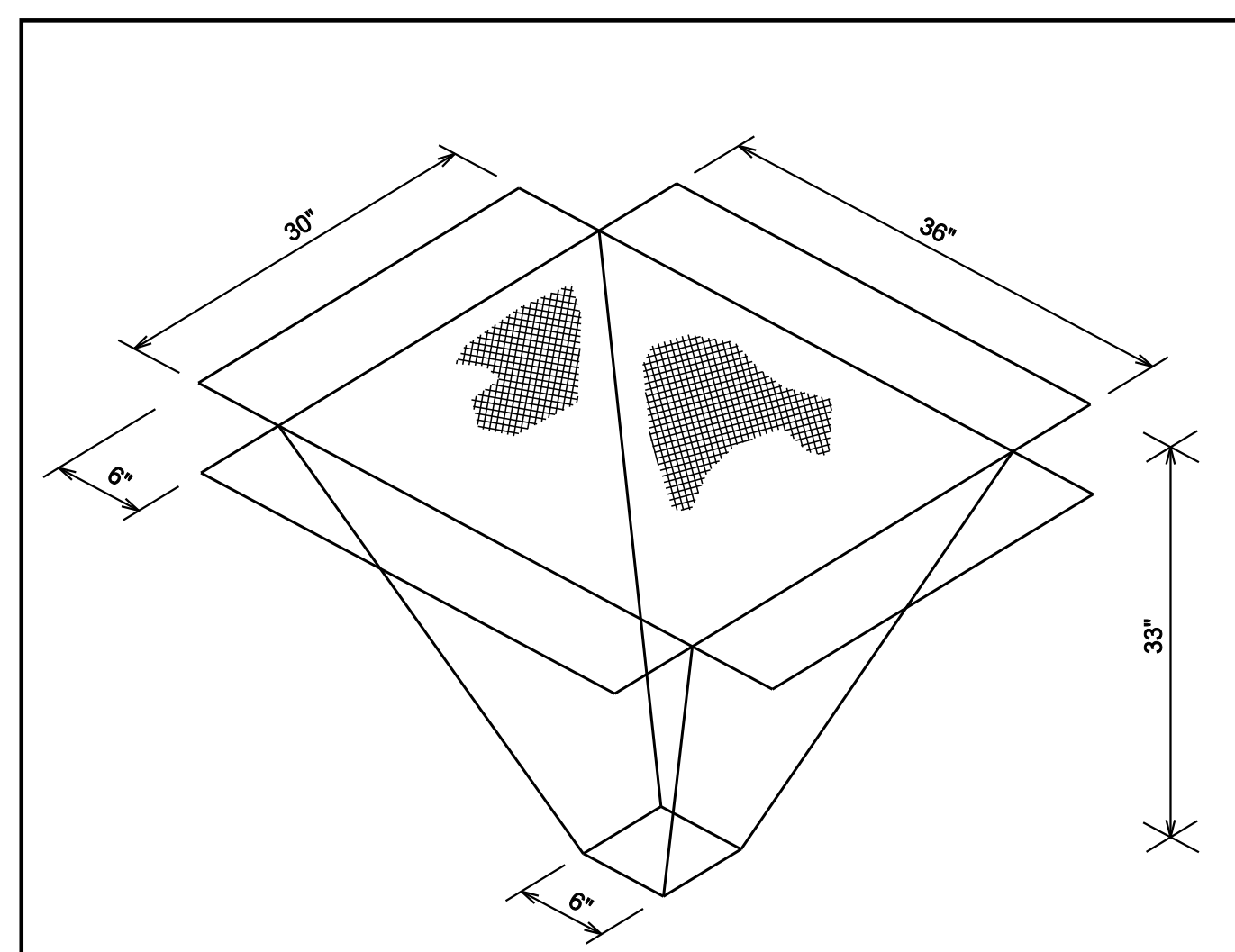
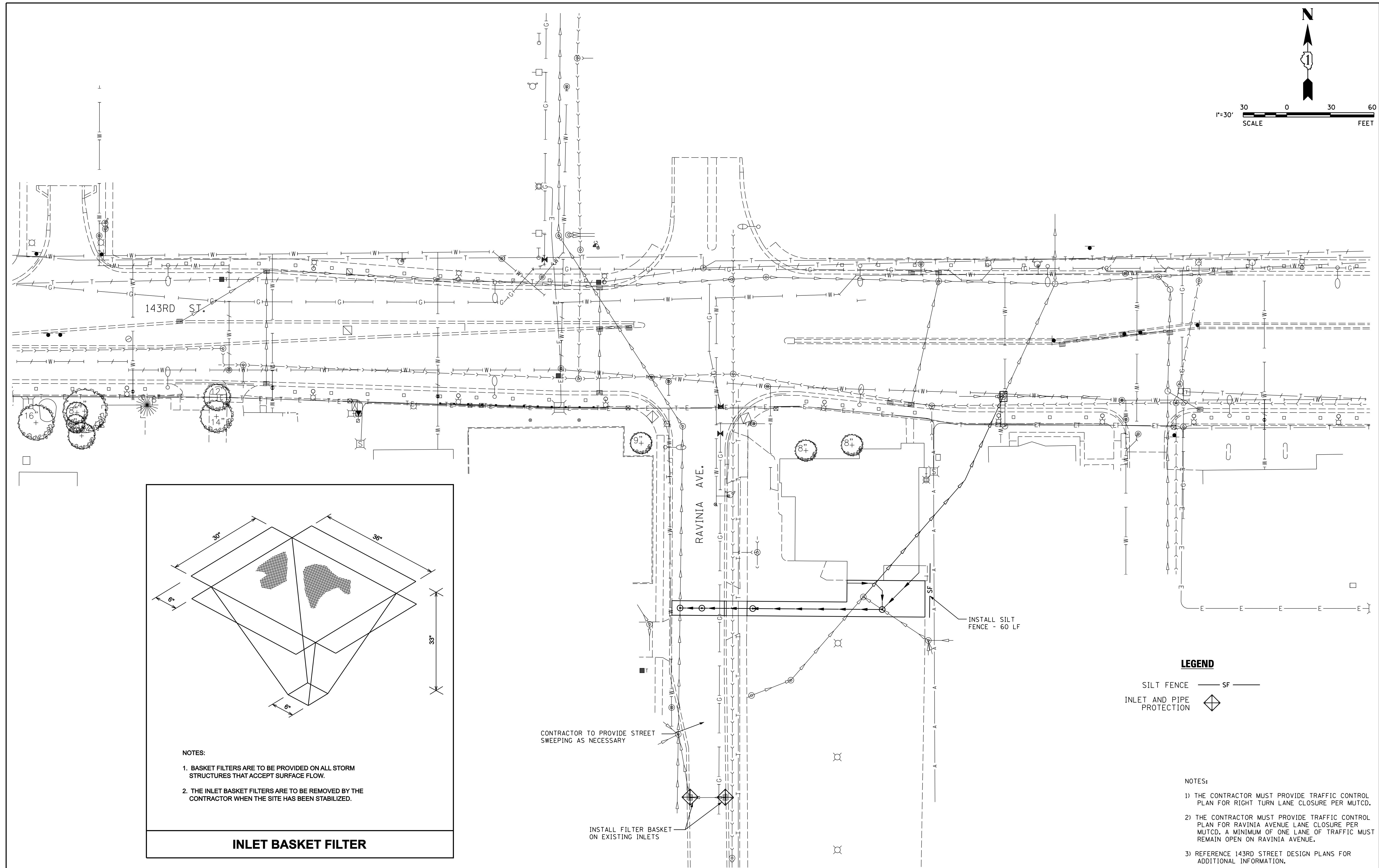
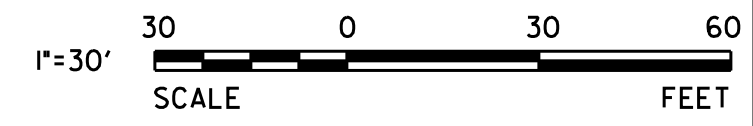
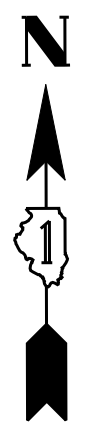
DESIGNED -	GVW	REVISED -	
DRAWN -	NS	REVISED -	
CHECKED -	GVW	REVISED -	
DATE -	04/20/12	REVISED -	

VILLAGE OF ORLAND PARK

**FOX'S STORM SEWER CONNECTION
 EROSION CONTROL AND SWPP NOTES**

SCALE: NTS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	9	4
ILLINOIS				



- NOTES:**
1. BASKET FILTERS ARE TO BE PROVIDED ON ALL STORM STRUCTURES THAT ACCEPT SURFACE FLOW.
 2. THE INLET BASKET FILTERS ARE TO BE REMOVED BY THE CONTRACTOR WHEN THE SITE HAS BEEN STABILIZED.

INLET BASKET FILTER

CONTRACTOR TO PROVIDE STREET SWEEPING AS NECESSARY

INSTALL FILTER BASKET ON EXISTING INLETS

INSTALL SILT FENCE - 60 LF

LEGEND

- SILT FENCE — SF —
- INLET AND PIPE PROTECTION

- NOTES:**
- 1) THE CONTRACTOR MUST PROVIDE TRAFFIC CONTROL PLAN FOR RIGHT TURN LANE CLOSURE PER MUTCD.
 - 2) THE CONTRACTOR MUST PROVIDE TRAFFIC CONTROL PLAN FOR RAVINIA AVENUE LANE CLOSURE PER MUTCD. A MINIMUM OF ONE LANE OF TRAFFIC MUST REMAIN OPEN ON RAVINIA AVENUE.
 - 3) REFERENCE 143RD STREET DESIGN PLANS FOR ADDITIONAL INFORMATION.



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630.724.9202 fax
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CHECKED -	GVW	REVISED -	
DATE -	04/20/12	REVISED -	

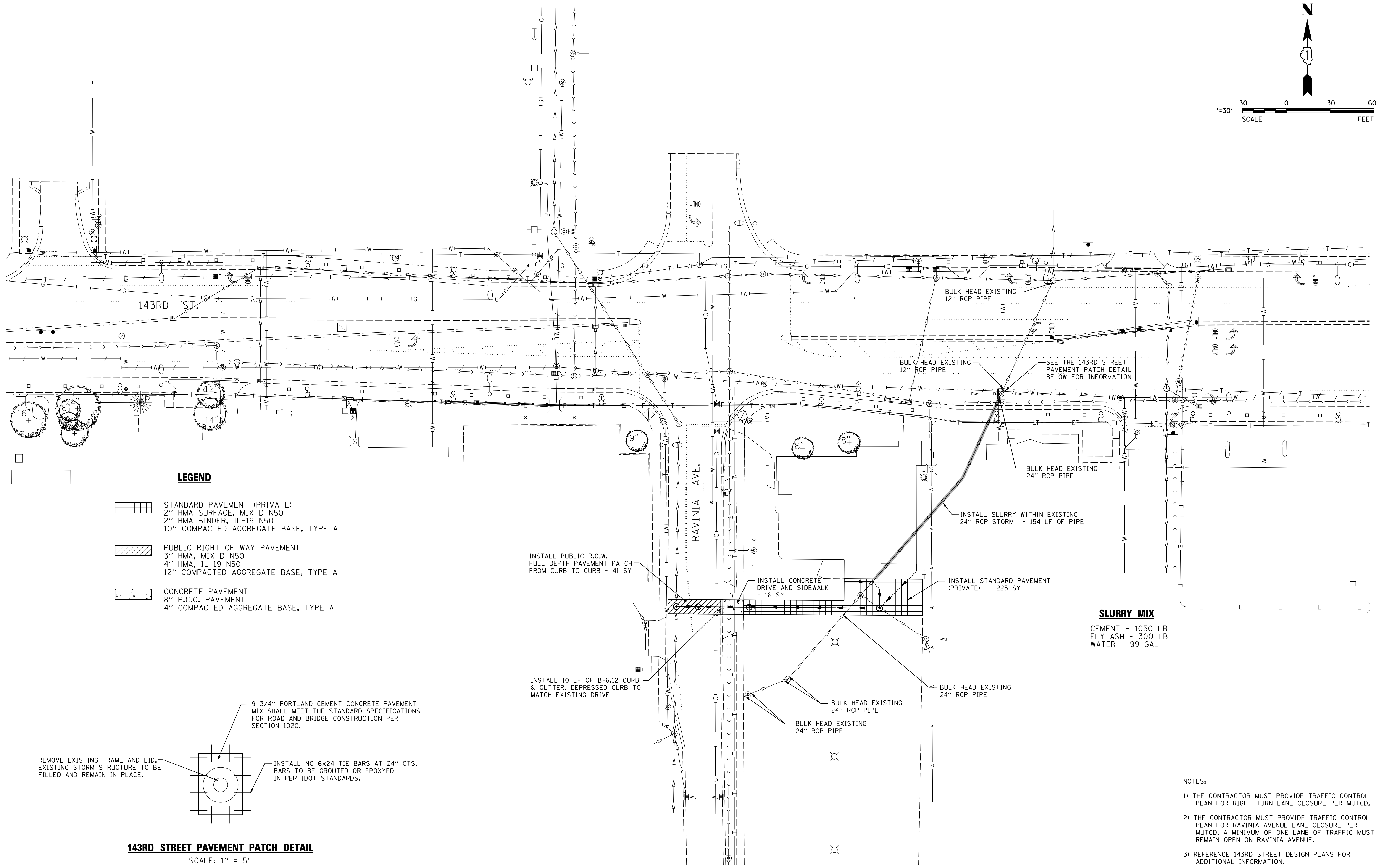
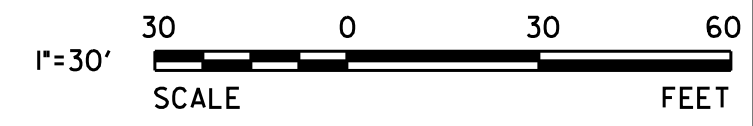
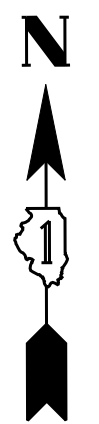
VILLAGE OF ORLAND PARK

**FOX'S STORM SEWER CONNECTION
EROSION CONTROL PLAN**

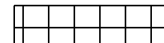
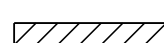
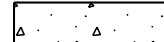
SCALE: 1" = 30'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	9	5

ILLINOIS



LEGEND

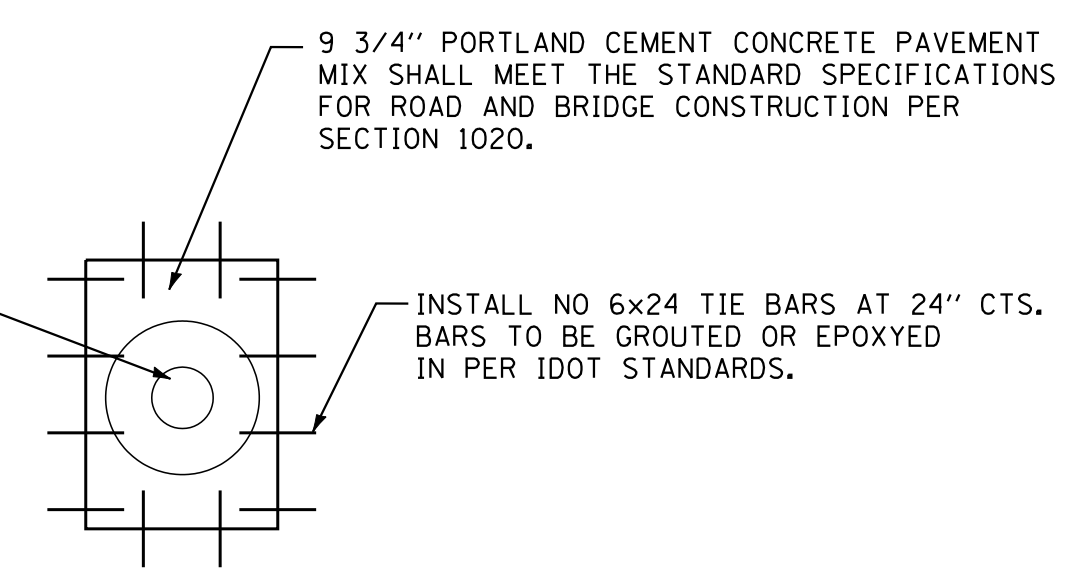
-  STANDARD PAVEMENT (PRIVATE)
2" HMA SURFACE, MIX D N50
2" HMA BINDER, IL-19 N50
10" COMPACTED AGGREGATE BASE, TYPE A
-  PUBLIC RIGHT OF WAY PAVEMENT
3" HMA, MIX D N50
4" HMA, IL-19 N50
12" COMPACTED AGGREGATE BASE, TYPE A
-  CONCRETE PAVEMENT
8" P.C.C. PAVEMENT
4" COMPACTED AGGREGATE BASE, TYPE A

SLURRY MIX

CEMENT - 1050 LB
FLY ASH - 300 LB
WATER - 99 GAL

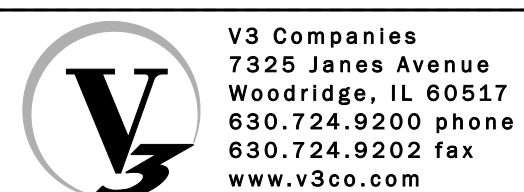
143RD STREET PAVEMENT PATCH DETAIL

SCALE: 1" = 5'



NOTES:

- 1) THE CONTRACTOR MUST PROVIDE TRAFFIC CONTROL PLAN FOR RIGHT TURN LANE CLOSURE PER MUTCD.
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CHECKED -	GVW	REVISED -	
DATE -	04/20/12	REVISED -	

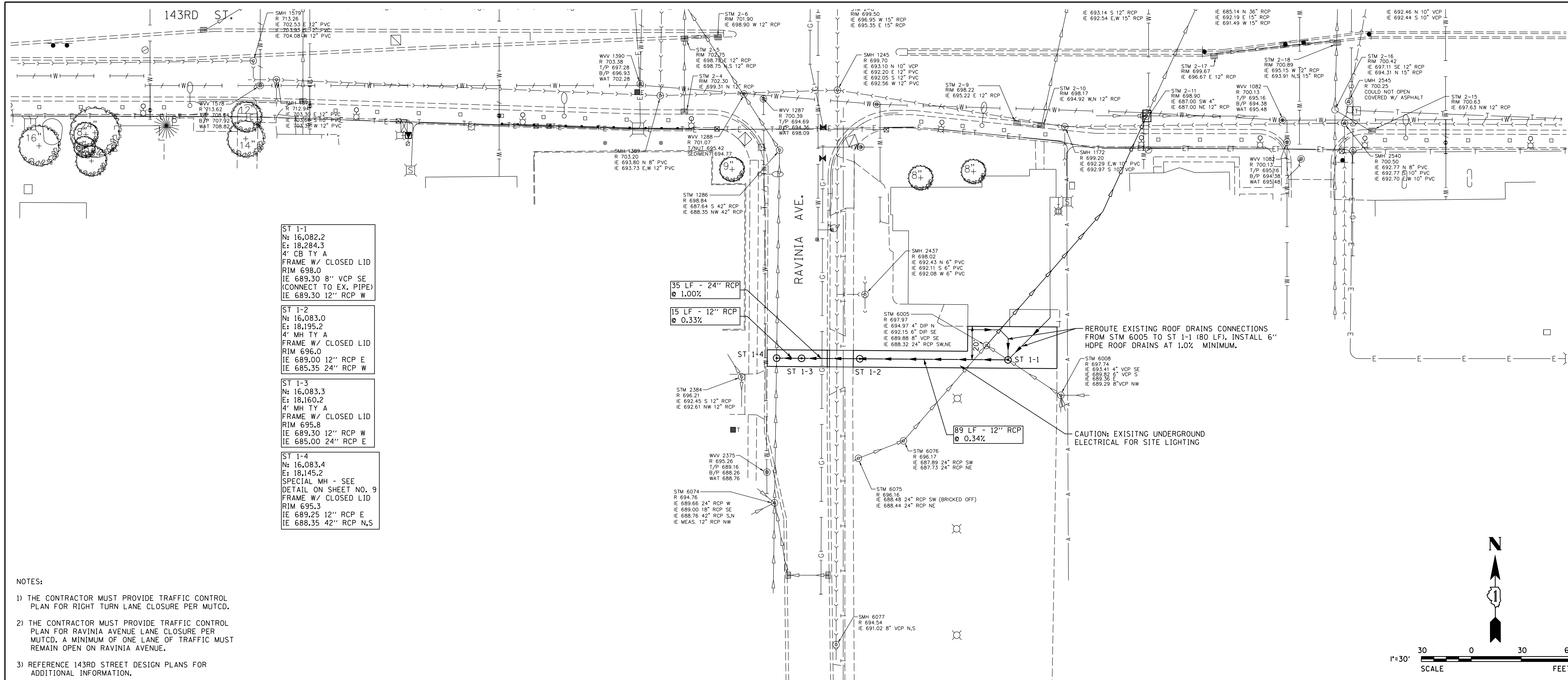
VILLAGE OF ORLAND PARK

**FOX'S STORM SEWER CONNECTION
PROPOSED IMPROVEMENT PLAN**

SCALE: 1" = 30'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	9	6

ILLINOIS

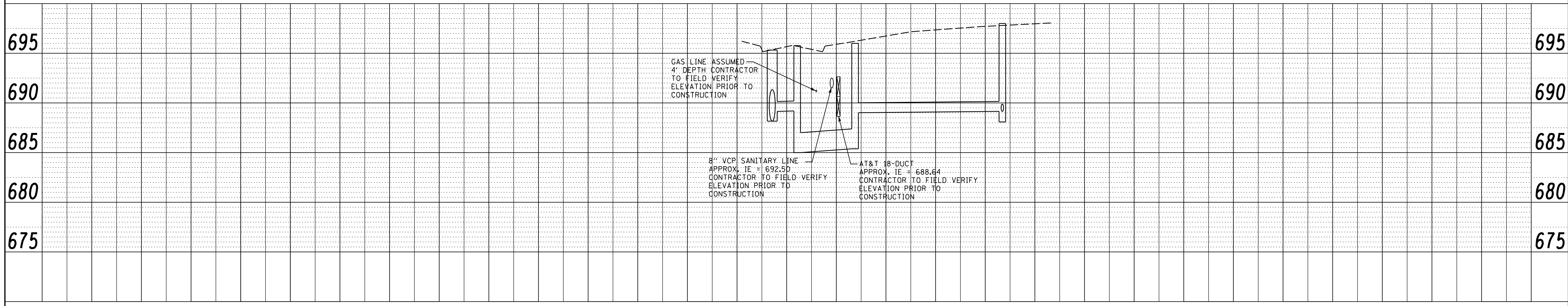
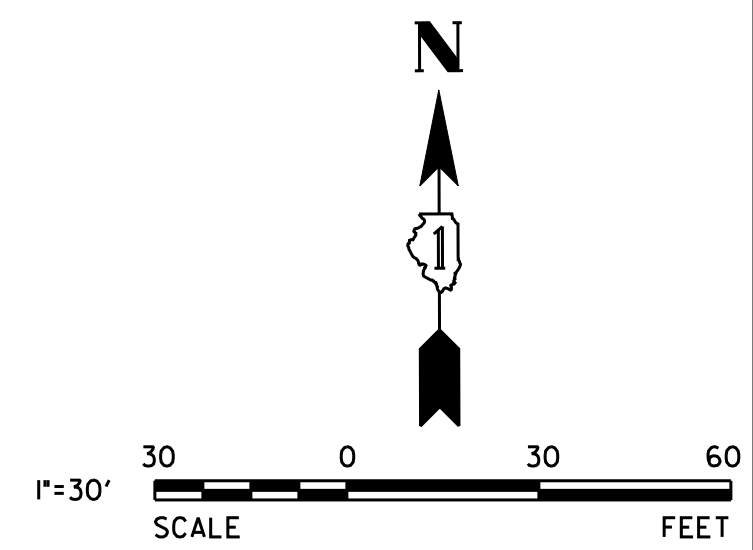


- ST 1-1
N: 16,082.2
E: 18,284.3
4' CB TY A
FRAME W/ CLOSED LID
RIM 698.0
IE 689.30 8" VCP SE
(CONNECT TO EX. PIPE)
IE 689.30 12" RCP W
- ST 1-2
N: 16,083.0
E: 18,195.2
4' MH TY A
FRAME W/ CLOSED LID
RIM 696.0
IE 689.00 12" RCP E
IE 685.35 24" RCP W
- ST 1-3
N: 16,083.3
E: 18,160.2
4' MH TY A
FRAME W/ CLOSED LID
RIM 695.8
IE 689.30 12" RCP W
IE 685.00 24" RCP E
- ST 1-4
N: 16,083.4
E: 18,145.2
SPECIAL MH - SEE
DETAIL ON SHEET NO. 9
FRAME W/ CLOSED LID
RIM 695.3
IE 689.25 12" RCP E
IE 688.35 42" RCP N,S

REROUTE EXISTING ROOF DRAIN CONNECTIONS FROM STM 6005 TO ST 1-1 (80 LF). INSTALL 6" HDPE ROOF DRAINS AT 1.0% MINIMUM.

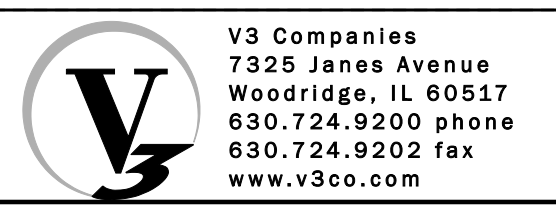
CAUTION: EXISTING UNDERGROUND ELECTRICAL FOR SITE LIGHTING

- NOTES:
- 1) THE CONTRACTOR MUST PROVIDE TRAFFIC CONTROL PLAN FOR RIGHT TURN LANE CLOSURE PER MUTCD.
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 - 3) REFERENCE 143RD STREET DESIGN PLANS FOR ADDITIONAL INFORMATION.



PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	CHECKED	
	BY	
	DATE	

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	
NO.	CHECKED	
	BY	
	DATE	



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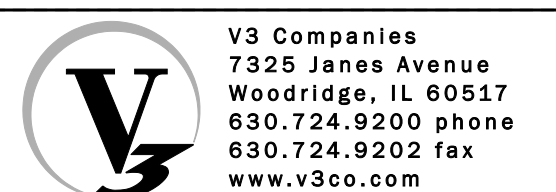
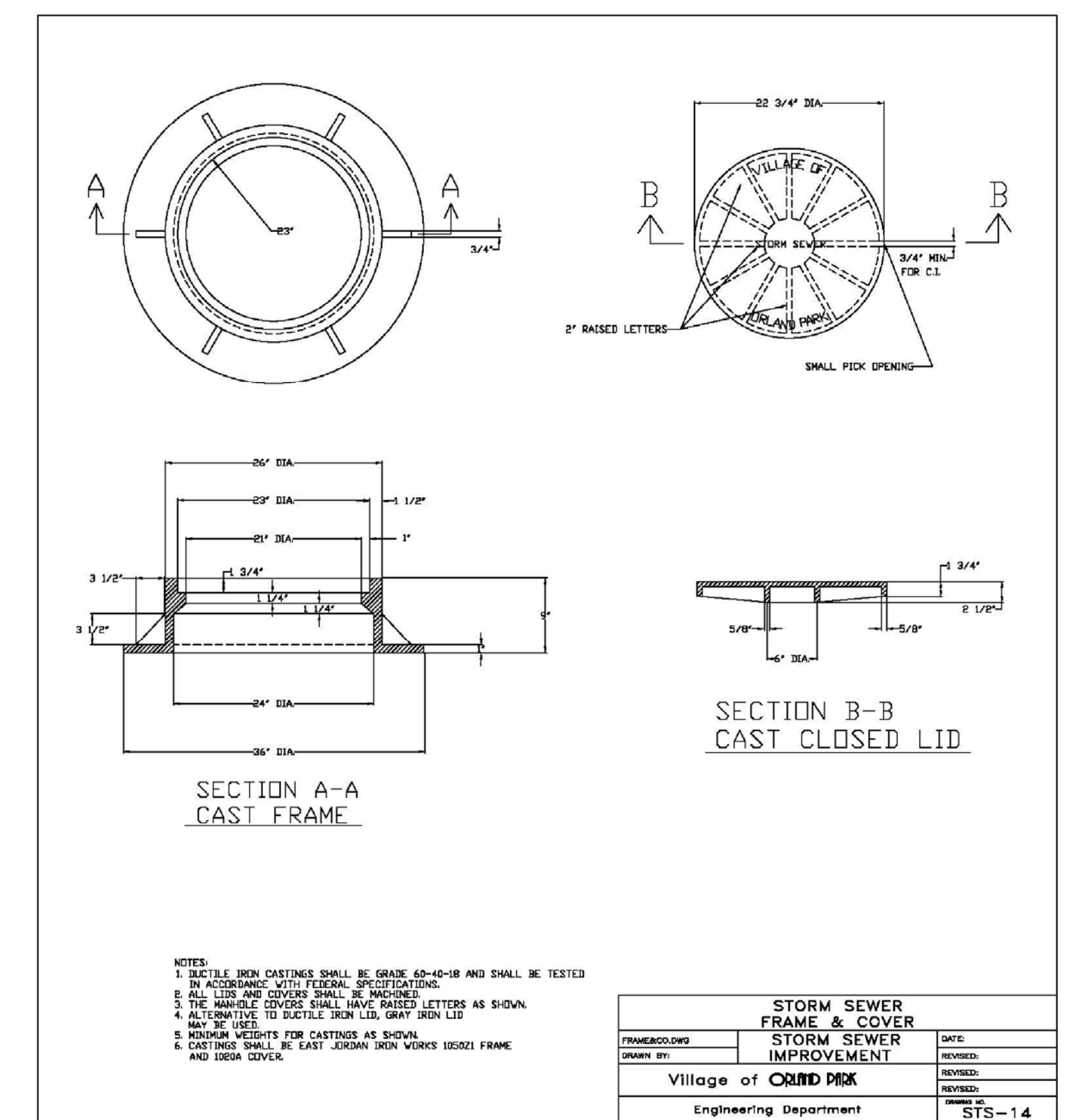
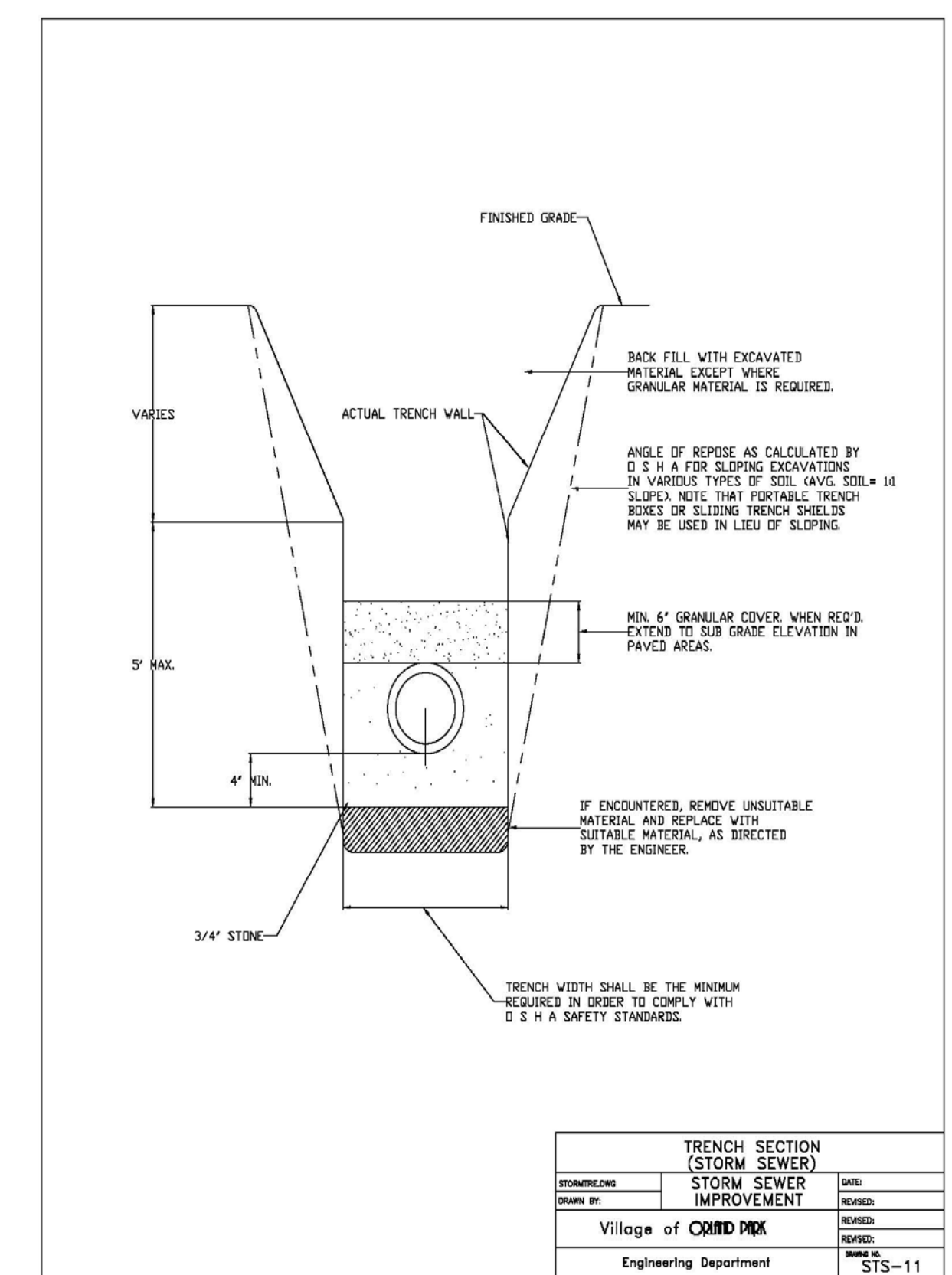
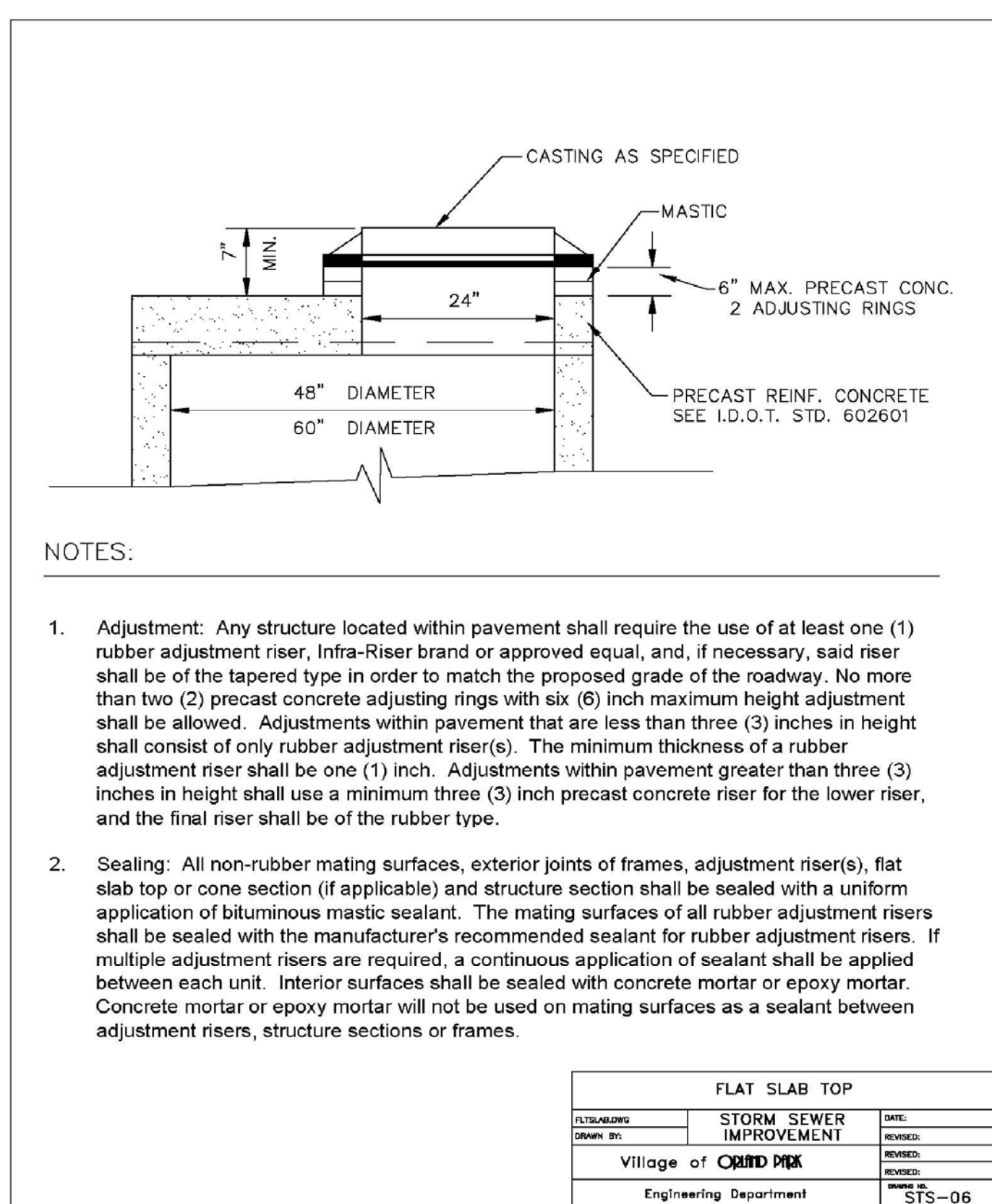
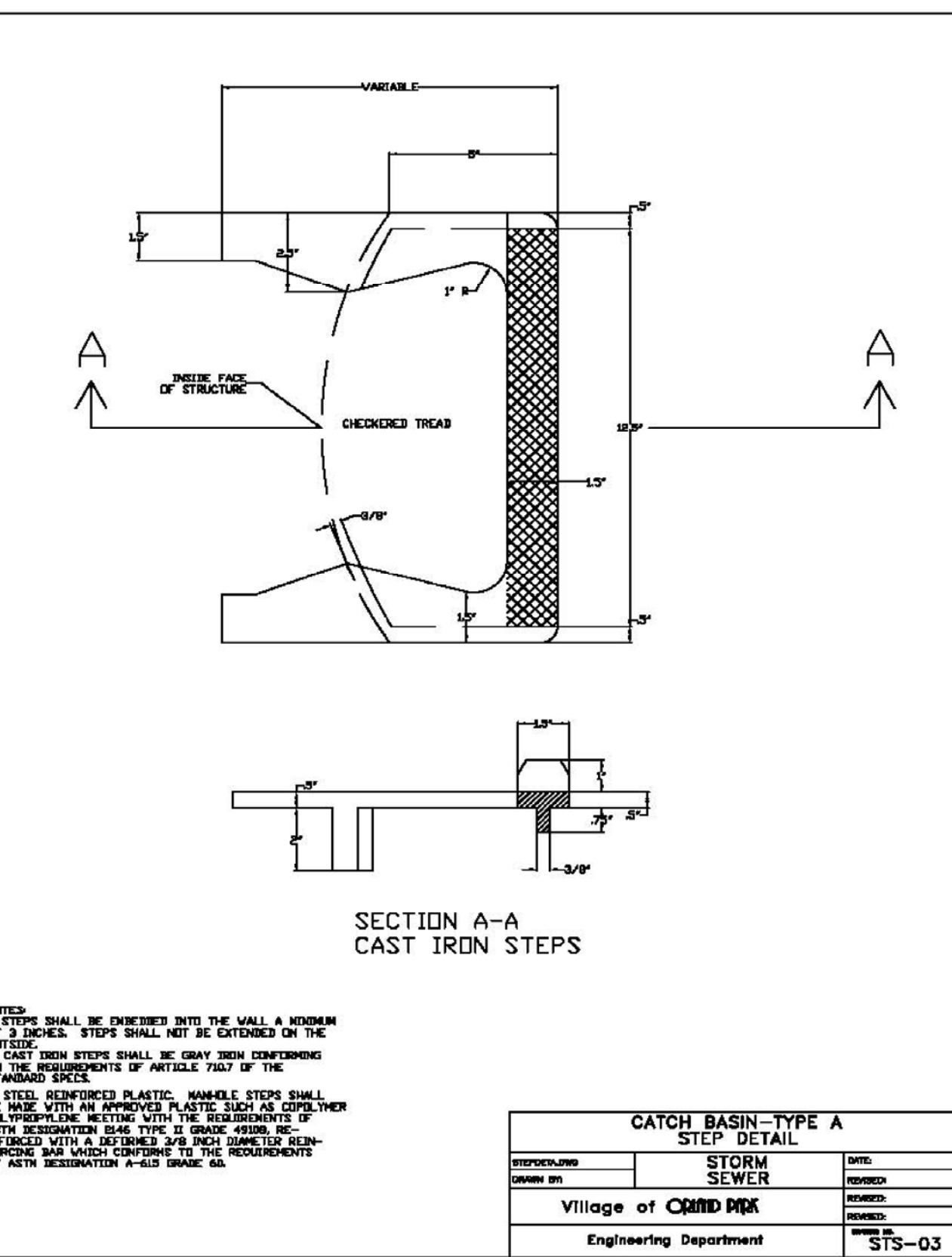
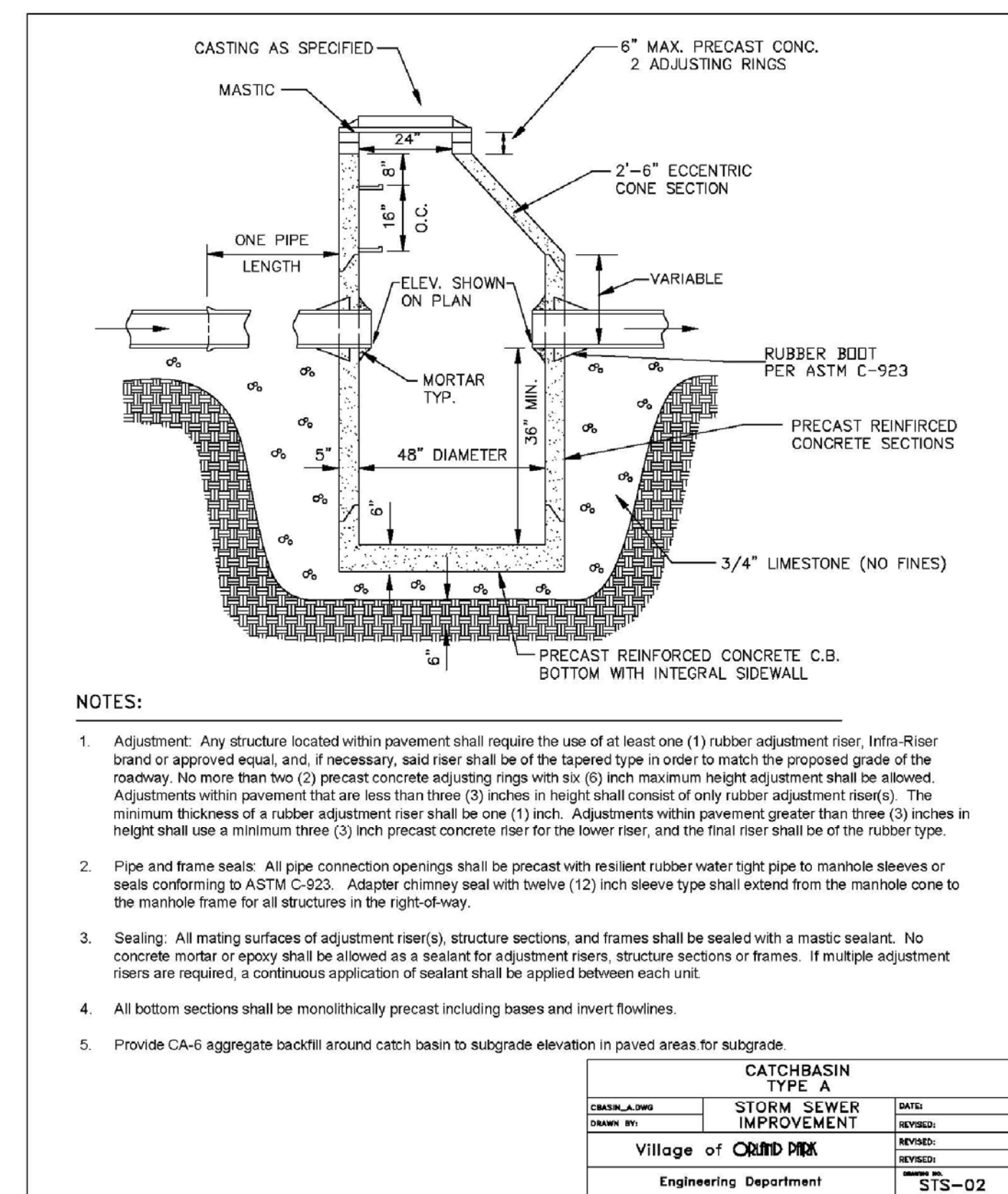
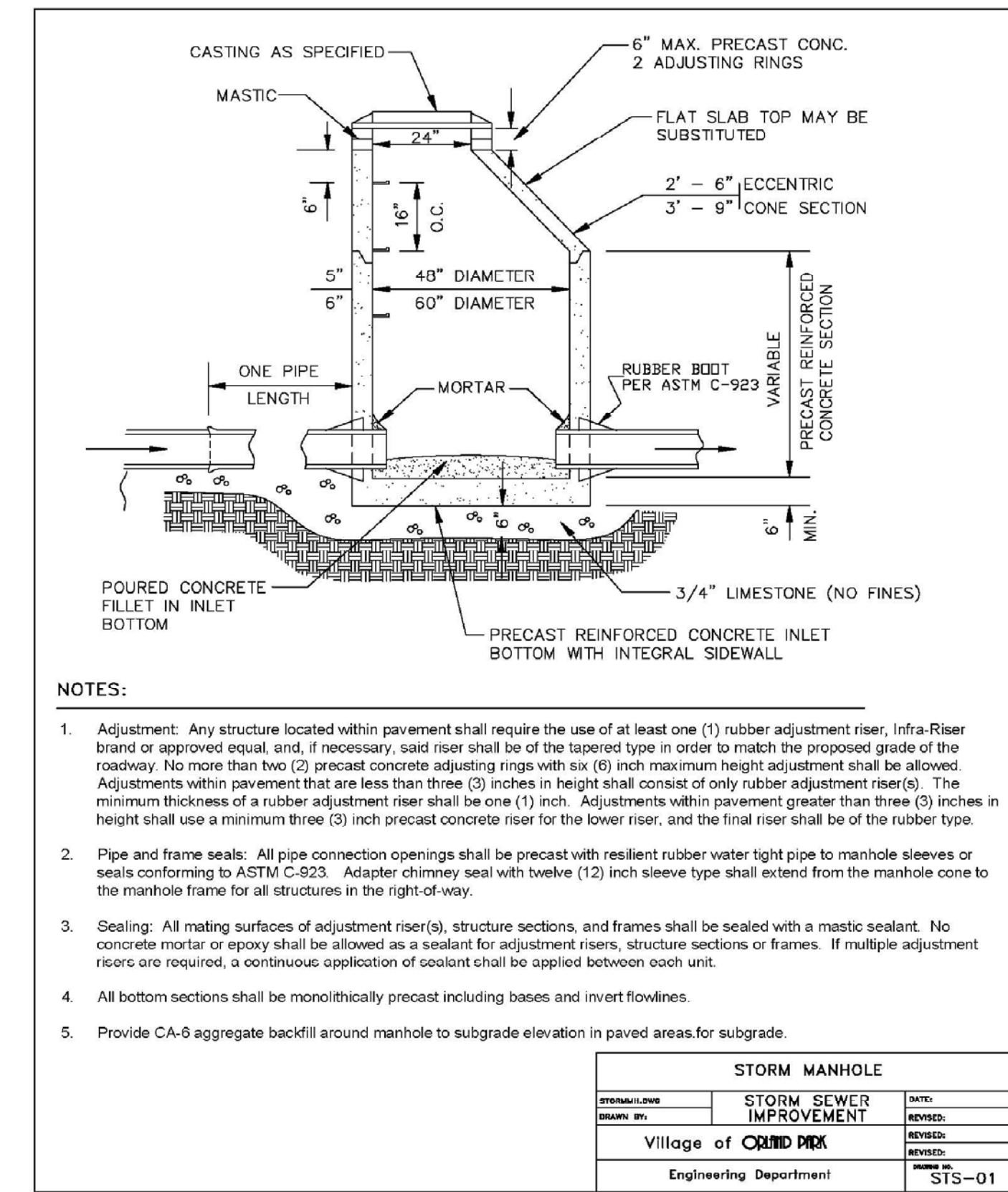
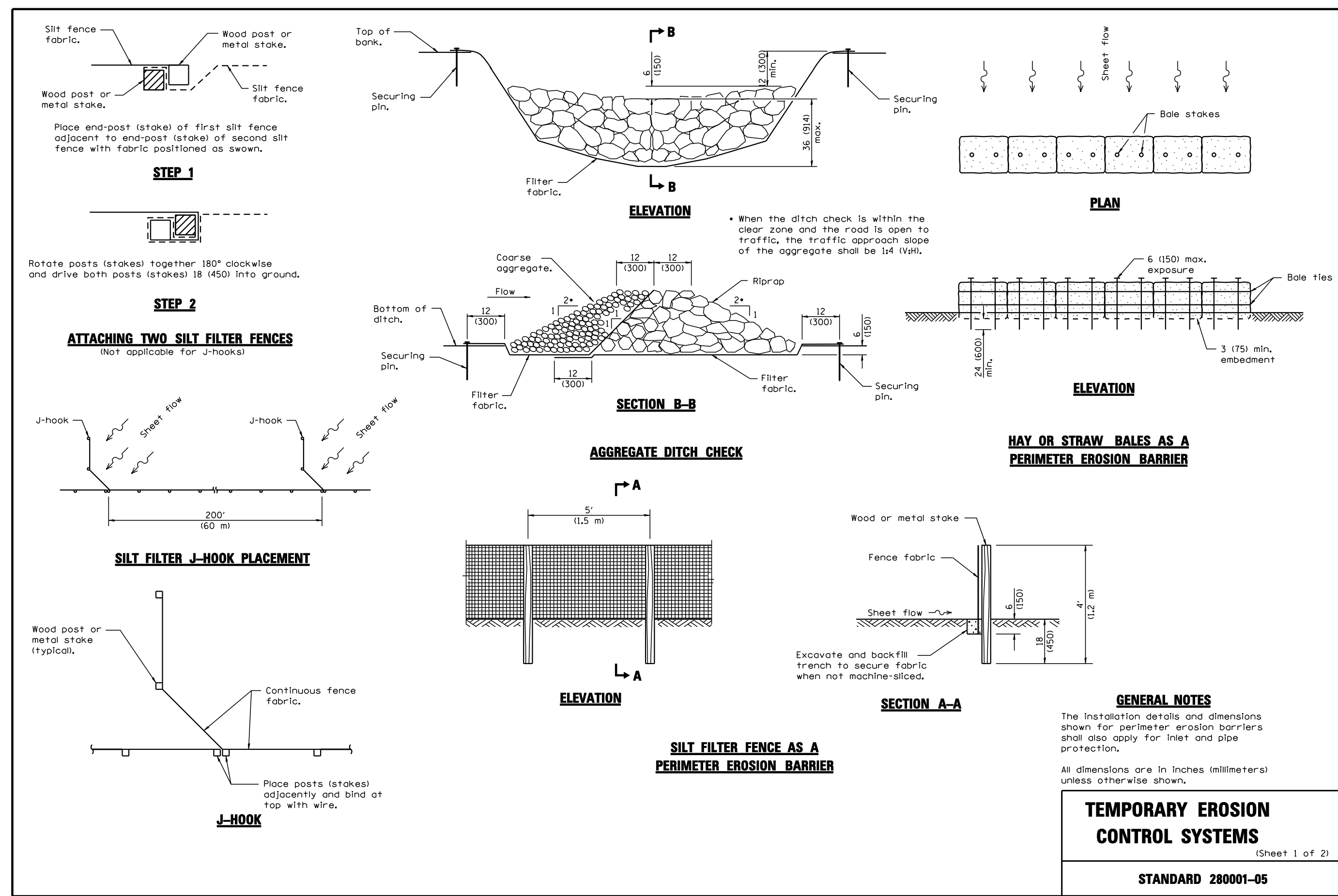
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DRAWN - NS	REVISED -
CHECKED - Gvw	REVISED -
DATE - 04/20/12	REVISED -

VILLAGE OF ORLAND PARK

FOX'S STORM SEWER CONNECTION
PLAN AND PROFILE

SCALE: 1" = 30'

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	9	7
ILLINOIS				



DESIGNED - GWW
DRAWN - NS
CHECKED - GWW
DATE - 04/20/12

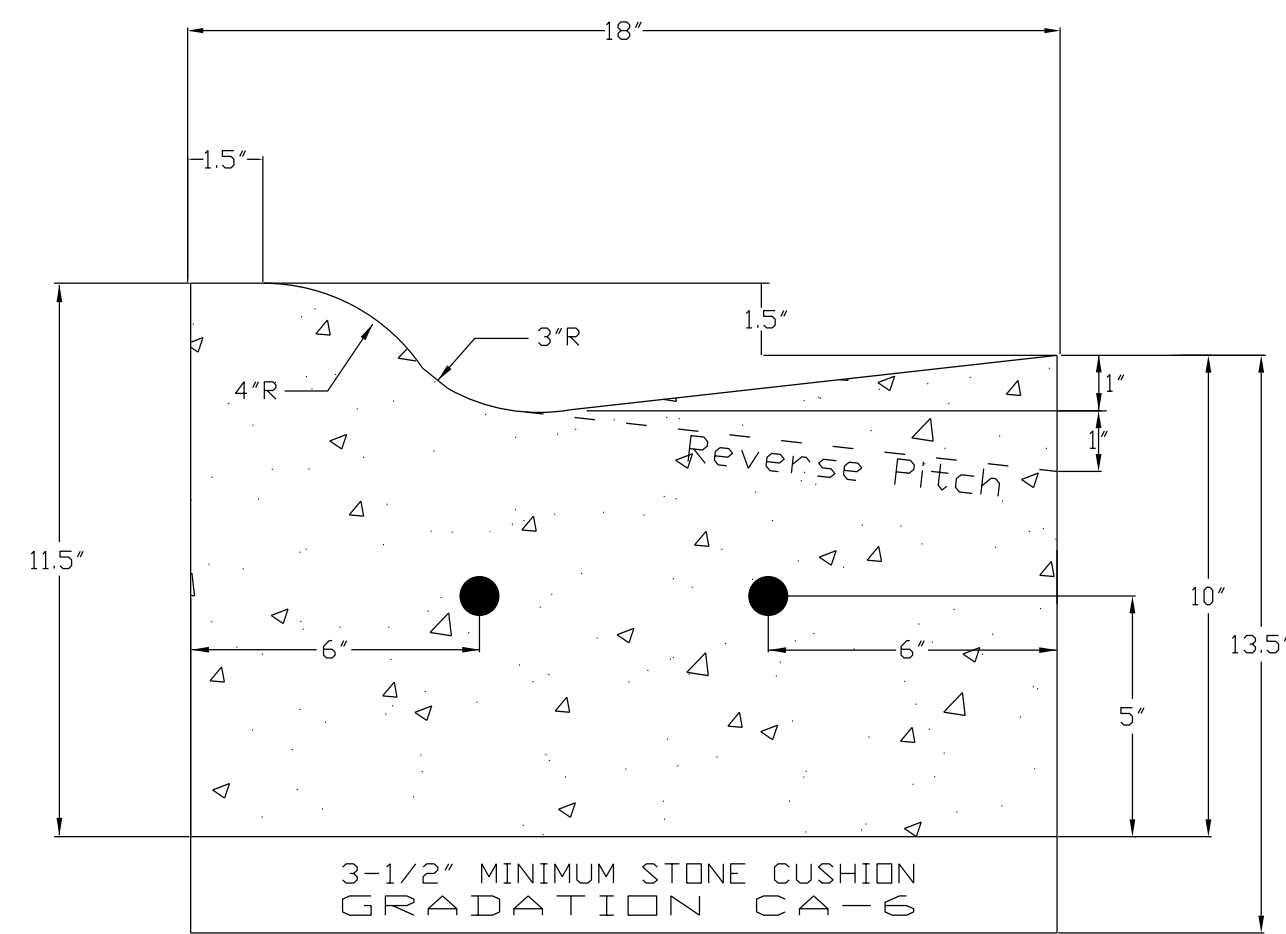
REVISED -
REVISED -
REVISED -
REVISED -

VILLAGE OF ORLAND PARK

FOX'S STORM SEWER CONNECTION CONSTRUCTION DETAILS

SCALE: NTS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	9	8
ILLINOIS				



- NOTES:
1. REINFORCEMENT PROVIDE TWO (2) #4 REINFORCING BARS CONTINUOUS BETWEEN EXPANSION JOINTS, WITH LOCATION SPACING AS INDICATED ABOVE.
 2. EXPANSION JOINT: 3/4" THICK BITUMINOUS FILLER MATERIAL- PROVIDE TWO (2) #6 X 24" SMOOTH BARS WITH EXPANSION CAPS AT EACH EXPANSION JOINT. INSTALL AT ENDS OF ALL RADII AND NO FURTHER THAN SIXTY (60') FEET APART.
 3. SAW THREE (3) EQUALLY SPACED CONTRACTION JOINTS AT TWENTY (20') FEET INTERVALS BETWEEN EXPANSION JOINTS. CONTRACTION JOINTS SHALL BE SAW-CUT IN THE UPPER ONE-THIRD OF CURB AND GUTTER WITHIN 3 DAYS OF PLACEMENT.
 4. COST OF BARS SHALL BE INCLUDED IN THE UNIT PRICE (PER LINEAL FOOT) FOR CURB AND GUTTER.

CURB AND GUTTER DETAIL (RESIDENTIAL)			
CURB/DWG	STREET & PAVEMENT	DATE:	
DRAWN BY:		REVISED:	2-14-08 LP
	Village of ORLAND PARK	REVISED:	8-27-07 MJ
	Engineering Department	DATE:	STR-03

72" DIA. MANHOLE WITH SPLIT BOTTOM

CONCRETE SPECIALTIES 1375 Gifford Rd Elgin, IL 60120 PH (847) 608-1200 FX (847) 608-1205

DRN BY: AN DATE: 2-14-12 DWG NO. REV

CHKD BY: DATE: SCALE: NTS SHEET OF

NOTES:

1. CONCRETE TO BE MINIMUM 4500 PSI AT 28 DAYS.
2. ALL CONCRETE CATCH BASINS AND MANHOLES ARE MANUFACTURED WITH WELDED STEEL WIRE FABRIC CONFORMING TO ASTM A-185.
3. ALL MANHOLES ARE MANUFACTURED TO COMPLY WITH ASTM DESIGNATION C-478 AND ILLINOIS DEPARTMENT OF TRANSPORTATION HIGHWAY STANDARDS.

72" DIA. MANHOLE WITH SPLIT BOTTOM

CONCRETE SPECIALTIES 1375 Gifford Rd Elgin, IL 60120 PH (847) 608-1200 FX (847) 608-1205

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PAVEMENT JOINTS
(Sheet 1 of 2)
STANDARD 420001-07

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

PAVEMENT JOINTS
(Sheet 2 of 2)
STANDARD 420001-07

DOWEL BAR TABLE	
PAVEMENT THICKNESS	DOWEL BAR DIAMETER
8 (200) or greater	1 1/2 (38)
7 (175) thru 7.99 (199)	1 1/4 (32)
Less than 7 (175)	1 (25)



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VILLAGE OF ORLAND PARK

FOX'S STORM SEWER CONNECTION
CONSTRUCTION DETAILS

SCALE: NTS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	9	9

ILLINOIS