

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 1376	**	COOK	35	1
ILLINOIS PROJECT TE-00D1 (754)				
VILLAGE SECTION 06-00087-00-SW				
CONTRACT NO. 83926				



LOCATION OF SECTION INDICATED THUS: ■

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR

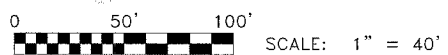
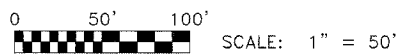
PROPOSED FEDERAL AID PROJECT
ILLINOIS TRANSPORTATION ENHANCEMENT PROGRAM
FAU 1376 GRAND AVENUE, STRUCKMAN AVENUE
TO HESSING STREET AND THATCHER AVENUE,
RIVER GROVE AVENUE TO ARNOLD STREET
VILLAGE OF RIVER GROVE
SECTION 06-00087-00-SW
GRAND AVENUE STREETScape
PROJECT TE-00D1(754)
COOK COUNTY
C-91-125-07

FOR INDEX OF SHEETS SEE SHEET NO. 2

TRAFFIC DATA

2030 ADT = 27,500
POSTED SPEED LIMIT: 30 MPH
DESIGN SPEED LIMIT: 30 MPH

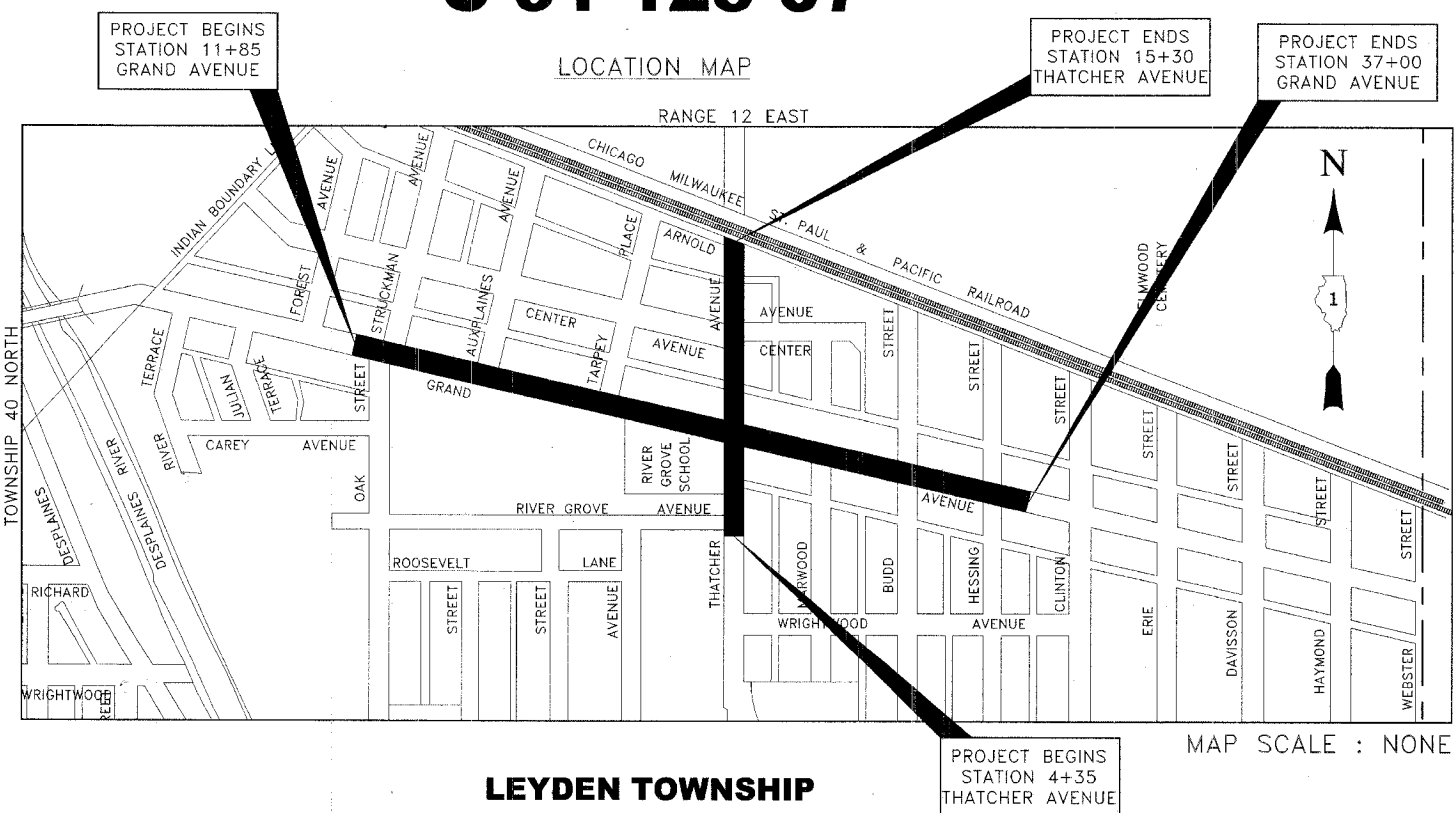
PROJECT LOCATED IN THE VILLAGE OF RIVER GROVE



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.



Know what's below.
Call before you dig.



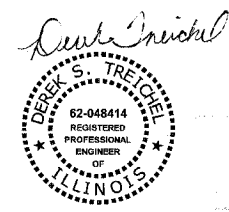
LEYDEN TOWNSHIP

■ - AREA OF IMPROVEMENT

GROSS AND NET LENGTH OF PROJECT = 3,610 FT. = 0.6837 MI.

ILLINOIS DEPARTMENT OF TRANSPORTATION DEPARTMENT OF HIGHWAYS	
APPROVED	October 18 2007 <i>Marilyn J. May</i> VILLAGE OF RIVER GROVE PRESIDENT
PASSED	November 6 2007 <i>Christopher Holt</i> DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS
RELEASING FOR BID BASED ON LIMITED REVIEW	Nov. 7 2007 <i>Diane O'Keefe</i> DEPUTY DIRECTOR OF HIGHWAYS, REGION 1 ENGINEER

(PRINTED BY AUTHORITY OF THE STATE OF ILLINOIS)



DATE SIGNED: 10-18-07
LICENSE EXPIRES: 11-30-07

EDWIN HANCOCK ENGINEERING COMPANY
9933 ROOSEVELT ROAD PHONE: (708) 865-0300
WESTCHESTER, ILLINOIS 60154

E.H.E. NO. 760-06-03320

Drawing File: W:\Projects\76006033 - Grand Ave Streetscape\COVER.dwg Oct 16, 2007 - 1:48pm FEDERAL AID DESIGN ENGINEER: JESSICA FELICIANO (847)705-4487

CONTRACT NO. 83926

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	TITLE SHEET, LOCATION MAP
2	INDEX OF SHEETS, LEGEND, BENCHMARKS, I.D.O.T. STANDARD DRAWINGS
3	GENERAL NOTES & SEWER ROUTE OUTLET MAP
4	SUMMARY OF QUANTITIES
5-8	TYPICAL CROSS SECTIONS
9-15	STREETSCAPING PLANS AND PROFILES
16-18	ROADWAY DETAILS
19-21	LIGHTING PLANS
22-23	WIRING DIAGRAMS
24-26	LIGHTING DETAILS
27-29	LANDSCAPING PLANS
30	LANDSCAPING DETAILS
31-33	EROSION CONTROL PLANS
34	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
35	ARTERIAL ROAD INFORMATION SIGN

BENCHMARKS

GRAND AVENUE		
BM-1	BRASS PLATE ON NORTHWEST WINGWALL ON GRAND AVENUE BRIDGE AT DES PLAINES RIVER.	625.26
BM-21	WEST FLANGE BOLT ON FIRE HYDRANT AT NORTHEAST CORNER OF GRAND AVENUE AND INDIAN BOUNDARY ROAD.	626.92
BM-22	NORTHWEST FLANGE BOLT ON FIRE HYDRANT AT NORTHEAST CORNER OF GRAND AVENUE AND JULIAN TERRACE.	629.60
BM-23	NORTHEAST TOP FLANGE BOLT ON FIRE HYDRANT AT SOUTHEAST CORNER OF GRAND AVENUE AND OAK STREET.	631.29
BM-25	NORTH TOP FLANGE BOLT ON FIRE HYDRANT AT NORTHEAST CORNER OF GRAND AVENUE AND PARK AVENUE.	630.74
BM-37	SOUTHEAST TOP FLANGE BOLT ON FIRE HYDRANT AT SOUTHEAST CORNER OF GRAND AVENUE AND MARWOOD STREET.	630.97
BM-38	SOUTHEAST TOP FLANGE BOLT ON FIRE HYDRANT AT SOUTHEAST CORNER OF GRAND AVENUE AND BUDD STREET.	630.41
BM-40	SOUTHEAST TOP FLANGE BOLT ON FIRE HYDRANT AT SOUTHEAST CORNER OF GRAND AVENUE AND CLINTON STREET.	629.93
BM-41	SOUTHEAST TOP FLANGE BOLT ON FIRE HYDRANT AT SOUTHEAST CORNER OF GRAND AVENUE AND ERIE STREET.	630.30
BM-42	SOUTHEAST TOP FLANGE BOLT ON FIRE HYDRANT AT SOUTHEAST CORNER OF GRAND AVENUE AND DAVISSON STREET.	629.81
BM-43	SOUTHEAST TOP FLANGE BOLT ON FIRE HYDRANT AT SOUTHEAST CORNER OF GRAND AVENUE AND HAYMOND STREET.	629.15
BM-44	SOUTHEAST TOP FLANGE BOLT ON FIRE HYDRANT AT SOUTHEAST CORNER OF GRAND AVENUE AND WEBSTER STREET.	629.65
THATCHER AVENUE		
BM-26	CENTER OF SOUTHEAST OF CONTROL CABINET FOUNDATION AT NORTHWEST CORNER OF GRAND AVENUE AND THATCHER AVENUE.	630.56
BM-70	SOUTHWEST FLANGE BOLT TOP ON FIRE HYDRANT AT SOUTHWEST CORNER OF THATCHER AVENUE AND RIVER GROVE AVENUE.	629.73

LEGEND OF SYMBOLS

(TO BE USED IN CONJUNCTION WITH I.D.O.T. STANDARD 000001-04)

EXISTING	PROPOSED	DESCRIPTION
		COMBINATION SEWER
		COMBINED RELIEF SEWER
		STORM SEWER
		WATER MAIN
		MANHOLE, TYPE A, 4' DIAMETER
		INLET, TYPE A
		CATCH BASIN, TYPE 'C'
		FIRE HYDRANT
		WATER MAIN VALVE BOX
		WATER SERVICE BOX
		STRUCTURE TO BE REMOVED
		EXISTING STRUCTURE TO BE ADJUSTED
		TYPE 1 FRAME & CLOSED LID
		TYPE 1 FRAME & OPEN LID
		RECONSTRUCT EXISTING STRUCTURE
		CURB & GUTTER TO BE REMOVED & REPLACED
		DRIVEWAY PAVEMENT REMOVAL & REPLACEMENT
		EARTH EXCAVATION
		DECORATIVE BRICK SIDEWALK
		PORTLAND CEMENT CONCRETE SIDEWALK REMOVAL & REPLACEMENT
		TREE AND TREE PLANTER REMOVAL
		TREE REMOVAL
		TOPSOIL FURNISH AND PLACE, 4"
		TREE WITH 4'-6" X 12" BOX PLANTER
		PEDESTRIAN LIGHT
		RIM ELEVATION (COMBINED SEWER) INVERT ELEVATION
		RIM ELEVATION (STORM) INVERT ELEVATION
		RIM ELEVATION (WATER MAIN) TOP OF WATER MAIN
		BITUMINOUS CONCRETE DRIVEWAY
		CONCRETE DRIVEWAY
		HANDHOLE
		TOP OF CURB ELEVATION EDGE OF PAVEMENT ELEVATION
		SUMMIT

I.D.O.T. STANDARD DRAWINGS

STANDARD NO.	TITLE OR DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-04	TEMPORARY EROSION CONTROL SYSTEMS
424001-05	CURB RAMPS FOR SIDEWALKS
604001-02	FRAMES AND LIDS - TYPE 1
701301-02	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701501-04	URBAN LANE CLOSURE, 2L, 2W UNDIVIDED
701701-05	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-03	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901	TRAFFIC CONTROL DEVICES

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HANCOCK ENGINEERING ♦ Civil Engineers ♦ Municipal Consultants ♦ Established 1911
 9933 Roosevelt Road Westchester, Illinois 60154-2780 Phone: 708/865-0300 Fax: 708/865-1212

**GRAND AVENUE STREETSCAPE PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS**

**INDEX OF SHEETS, LEGEND OF SYMBOLS,
BENCHMARKS, & I.D.O.T. STANDARD DRAWINGS**

SCALE: NONE	SHEET 2
DRAWN BY: LEV/ECW/MK	OF 35
BOOK NO.: 1441,1443,1516	
DATE: 10-15-07	
E.H.E. NO.: 760-06-03320	

ACCESS

THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN ACCESS FOR EMERGENCY VEHICLES TO INGRESS AND EGRESS ONTO PRIVATE & COMMERCIAL PROPERTY DURING THE CONSTRUCTION PERIOD. ALSO DURING CONSTRUCTION, GARBAGE TRUCKS MUST BE PERMITTED ACCESS TO THE WORK ZONE IN ORDER TO PICK UP RESIDENTIAL AND COMMERCIAL GARBAGE FOR THOSE PROPERTIES FRONTING THE WORK ZONE.

UNDERGROUND UTILITIES

THE LOCATIONS OF THE UNDERGROUND UTILITIES AS SHOWN ON THE PLANS HAVE BEEN OBTAINED BY FIELD SURVEYS AND SEARCHES OF AVAILABLE RECORDS. IT IS BELIEVED THAT THE DATA IS ESSENTIALLY CORRECT, BUT THE VILLAGE OF RIVER GROVE, THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND/OR OTHER OFFICES AND AGENCIES ASSOCIATED WITH THE DEVELOPMENT OF THESE PLANS DO NOT GUARANTEE THEIR ACCURACY OR COMPLETENESS. THE CONTRACTOR WILL BE REQUIRED TO VERIFY THE EXACT LOCATION OF EACH FACILITY WITH THE UTILITY COMPANY, AND SHALL TAKE DUE CARE IN ALL PHASES OF THE CONSTRUCTION TO PROTECT ANY SUCH FACILITIES WHICH MAY BE AFFECTED BY THE WORK. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

ADJUSTMENTS REQUIRED BY UTILITY COMPANIES WILL BE PERFORMED BY THE COMPANY INVOLVED OR ITS CONTRACTOR.

COORDINATION OF ALL UTILITY WORK INVOLVED IN THE CONSTRUCTION AREA WILL BE DISCUSSED AT A PRE-CONSTRUCTION CONFERENCE.

THE CONTRACTOR SHALL USE EXTREME CAUTION IN THE REMOVAL OF ABANDONED EXISTING GAS LINES SINCE RESIDUAL MATERIALS CONTAINED THEREIN ARE HIGHLY EXPLOSIVE, FLAMMABLE, AND TOXIC. ONCE THE MAINS ARE ABANDONED BY THE OWNER, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR ANY DAMAGE AND/OR INJURY OCCURRING ON THE PROJECT DUE TO HIS OPERATIONS NEXT TO THE MAINS AND/OR THE METHOD OF REMOVAL OF THE ABANDONED MAINS. UNDER NO CIRCUMSTANCE SHALL THE UTILITY COMPANIES BE HELD LIABLE FOR ANY DAMAGE AND/OR INJURY ONCE THEIR MAINS HAVE BEEN RELOCATED AND THE EXISTING ABANDONED.

MAINTENANCE OF SEWER FLOWS

THE CONTRACTOR SHALL CONDUCT HIS OPERATIONS SO AS TO MAINTAIN AT ALL TIMES FLOWS THROUGH EXISTING STORM AND SANITARY SEWER SYSTEMS. HE SHALL ALSO PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT IF NECESSARY AND A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER COLLECTED IN A SAFE MANNER WITHOUT DAMAGE OF ANY KIND TO ADJACENT PROPERTIES. THE ENDS OF EXISTING DRAINAGE LINES WHICH ARE NOT TO BE INCORPORATED INTO THE PROJECT ARE TO BE SEALED AS SPECIFIED IN THE SPECIAL PROVISIONS. THE COST OF ALL THE PREVIOUSLY MENTIONED WORK SHALL BE INCLUDED IN THE CONTRACT. ALL ACCUMULATION OF MATERIAL IN THE STRUCTURE DUE TO CONSTRUCTION OPERATIONS AS WELL AS MATERIAL EXISTING BEFORE CONSTRUCTION, SHALL BE REMOVED BY THE CONTRACTOR AT HIS EXPENSE.

EXISTING STRUCTURE MODIFICATIONS

ALL KNOWN EXISTING STRUCTURES IN THE PAVEMENT OR ADJACENT AREAS WHICH ARE INVOLVED IN THE CONSTRUCTION HAVE BEEN SHOWN ON THE PLANS AND NOTED AS TO BE REMOVED, FILLED, RECONSTRUCTED, OR ADJUSTED BY THE CONTRACTOR EXCEPT THOSE OF AMERITECH, COMED, AND THE NICOR GAS COMPANY, WHICH ARE TO BE ADJUSTED BY THE APPROPRIATE UTILITY FORCE. WHERE EXISTING STRUCTURES ARE TO BE REMOVED OR FILLED, OR THE EXISTING CASTING REPLACED, THE CASTINGS REMOVED FROM THE STRUCTURE BECOME THE PROPERTY OF THE VILLAGE OF RIVER GROVE.

SAW CUTTING

THE CONTRACTOR SHALL SAW CUT ASPHALT PAVEMENT AND DRIVEWAY PAVEMENT AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER, TO SEPARATE THE EXISTING PAVEMENT TO BE REMOVED BY MEANS OF AN APPROVED CONCRETE SAW TO A DEPTH AS DIRECTED BY THE ENGINEER. SUITABLE GUIDELINES OR DEVICES SHALL BE USED TO ASSURE CUTTING A NEAT, STRAIGHT LINE AS SHOWN ON THE PLANS. CARE SHALL BE TAKEN BY THE CONTRACTOR SO AS NOT TO DAMAGE THE REMAINING PAVEMENT DIRECTLY ADJACENT TO THE PAVEMENT TO BE REMOVED. ANY DAMAGE TO THE EXISTING PAVEMENT RESULTING FROM PAVEMENT REMOVAL OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. THE PRICE OF SAW CUTTING, AS NOTED ABOVE, SHALL BE INCLUDED IN THE PARTICULAR PAY ITEMS.

AGGREGATE BEDDING FOR CONCRETE WORK

NEW COMBINATION CURB AND GUTTER, SIDEWALK, AND DRIVEWAY PAVEMENT SHALL BE PLACED ON A MINIMUM OF TWO INCHES (2") OF COMPACTED CA-6 STONE BEDDING. NEW CONCRETE PAVEMENT, WHICH WILL BE INSTALLED WITHING PROPOSED ALLEY RETURNS, SHALL BE PLACED ON A MINIMUM OF FOUR INCHES (4") OF COMPACTED CA-6 STONE BEDDING. ADDITIONAL AGGREGATE REQUIRED TO ADJUST THE EXISTING ELEVATION OF THE SUBGRADE TO THE PROPOSED ELEVATION WILL BE INCLUDED AS PART OF THIS WORK.

PAYMENT WILL NOT BE MADE SEPARTELY BUT WILL BE INCLUDED IN THE UNIT PRICE FOR THE RESPECTIVE CONCRETE ITEMS IN THE CONTRACT.

TRAFFIC PROTECTION

CONTRACTOR'S ATTENTION IS DIRECTED TO THE FACT THAT WHEN WORK COMMENCES, THE CONTRACTOR SHALL ASSUME THE MAINTENANCE OF ANY PAVEMENT, SHOULDERS, DRAINAGE FACILITIES, TRAFFIC CONTROL SIGNS, PAVEMENT MARKINGS, AND OTHER APPURTENANCES ON ROADWAYS WITHIN THE LIMITS OF THE CONTRACT WHICH ARE TO BE USED BY THE PUBLIC DURING CONSTRUCTION AND TO RETAIN THIS MAINTENANCE RESPONSIBILITY UNTIL THE VILLAGE ASSUMES THE MAINTENANCE. NEED FOR SNOW AND ICE CONTROL DURING THE CONSTRUCTION PERIOD SHALL BE ACCOMMODATED FOR BY OTHERS. ALL UNBALLASTED TYPE II BARRICADES SHALL HAVE TWO SANDBAGS ONE ACROSS EACH BOTTOM RAIL.

EXISTING ROADWAY SIGNS

REFER TO ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. IN ADDITION, SIGNS THAT ARE NOT TO BE RE-ERECTED PERMANENTLY SHALL BE RETURNED TO THE NEAREST I.D.O.T. SIGN SHOP. NEW OR EXISTING SIGNS ARE TO BE INSTALLED ON LIGHT POLES WHEREVER POSSIBLE.

FORMS FOR CONCRETE SIDEWALKS, DRIVEWAYS, PAVEMENT, AND GUTTER FLAGS

A 2" X 6" BOARD WILL BE USED AS A FORM FOR ALL SIDEWALKS TO BE INSTALLED FIVE INCHES (5") IN THICKNESS. A 2" X 8" BOARD WILL BE USED AS A FORM FOR ALL DRIVEWAYS TO BE INSTALLED SEVEN INCHES (7") IN THICKNESS. A 2" X 10" BOARD WILL BE USED AS THE FORM FOR ALL ALLEY RETURN PAVEMENTS TO BE INSTALLED EIGHT INCHES (8") IN THICKNESS. A 2" X 12" BOARD WILL BE USED AS THE FORM FOR THE FACE OF THE GUTTER FLAGS TO BE INSTALLED TEN INCHES (10") IN THICKNESS. ALL FORMS MUST BE OF A MINIMUM HEIGHT OF THE PROPOSED THICKNESS OF THE REPSECTIVE CONCRETE ITEMS TO BE INSTALLED.

TEMPORARY TRAFFIC CONTROL

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF TEMPORARY TRAFFIC CONTROL DEVICES.

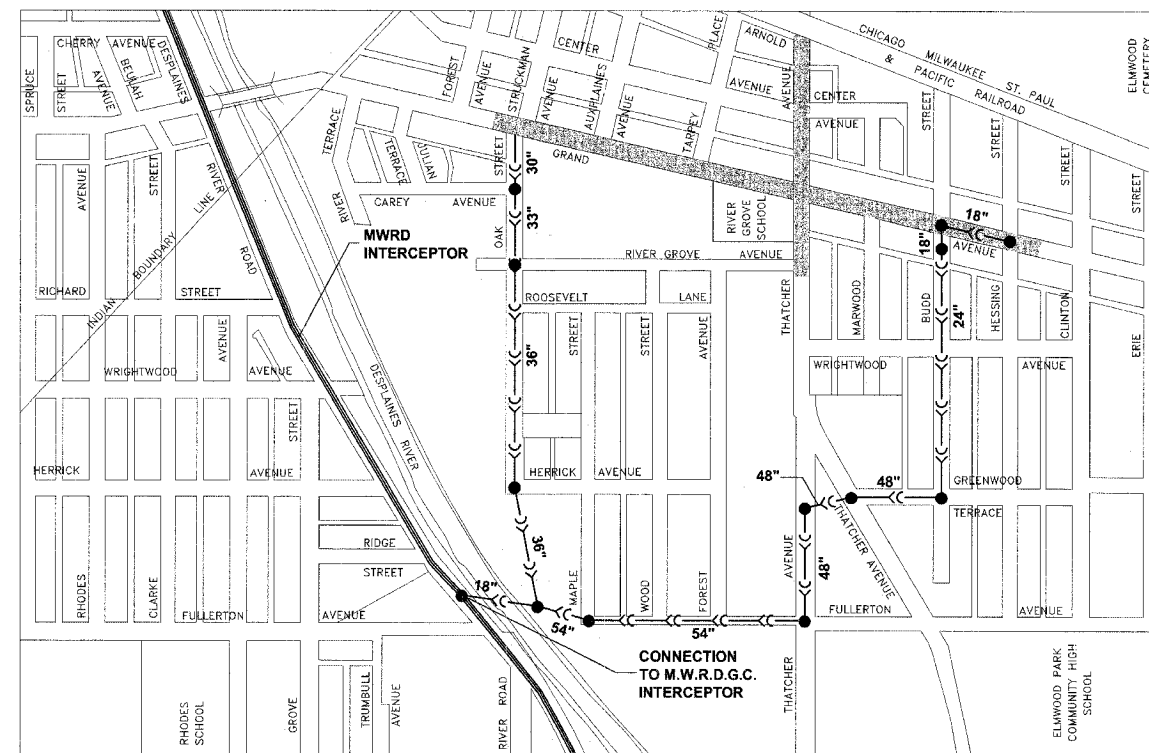
PAVEMENT MARKINGS

PLEASE CALL AREA TRAFFIC FIELD ENGINEER, WALTER CZARNY, AT (773) 685-8386 AT LEAST 2 (TWO) WEEKS PRIOR TO PLACEMENT OF PAVEMENT MARKINGS.

COMMERCIAL PROPERTY ACCESS

THE CONTRACTOR WILL BE RESPONSIBLE TO MAINTAIN ACCESS TO COMMERCIAL PROPERTIES AT ALL TIMES AS DIRECTED BY THE ENGINEER. THIS CAN INVOLVE THE STAGING OF DRIVEWAY REMOVAL AND REPLACEMENT, CURB AND GUTTER REMOVAL AND REPLACEMENT, AND SIDEWALK REMOVAL AND REPLACEMENT WITH DECORATIVE BRICK SIDEWALK AND THE USE OF TEMPORARY STONE FOR ACCESS. PAYMENT WILL NOT BE MADE SEPARATELY BUT WILL BE INCLUDED IN THE UNIT PRICE FOR THE RESPECTIVE PAY ITEMS IN THE CONTRACT.

SEWER ROUTE OUTLET MAP



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◆ Civil Engineers
 ◆ Municipal Consultants
 ◆ Established 1911

9933 Roosevelt Road
 Westchester, Illinois 60154-2780
 Phone: 708/865-0300
 Fax: 708/865-1212

**GRAND AVENUE STREETScape PROJECT
 VILLAGE OF RIVER GROVE, ILLINOIS**

**GENERAL NOTES &
 SEWER ROUTE OUTLET MAP**

SCALE:	NONE	SHEET	3
DRAWN BY:	LEV/ECW/MK	OF	35
BOOK NO.:	1441,1443,1516		
DATE:	10-15-07		
REVISION:			
E.F.E. NO.:	760-06-03320		

SUMMARY OF QUANTITIES

CODE	PAY ITEM	UNIT	Y003	
			TOTAL QUANTITY	80% Federal 20% Local
20100110	TREE REMOVAL (6 TO 15 INCH DIAMETER)	UNIT	30	30
20200100	EARTH EXCAVATION	CUYD	275	275
20800150	TRENCH BACKFILL	CUYD	40	40
* 21101615	TOPSOIL FURNISH AND PLACE, 4"	SQYD	1,000	1,000
* 25000400	NITROGEN FERTILIZER NUTRIENT	LBS	15	15
* 25000500	PHOSPHORUS FERTILIZER NUTRIENT	LBS	15	15
* 25000600	POTASSIUM FERTILIZER NUTRIENT	LBS	15	15
* 25200100	SODDING	SQYD	1,000	1,000
* 25200200	SUPPLEMENTAL WATERING	UNIT	10	10
* 25300500	TOPSOIL FOR PLANTING	CUYD	45	45
28000510	INLET FILTERS	EACH	25	25
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQYD	1,950	1,950
35300200	PORTLAND CEMENT CONCRETE BASE COURSE, 7"	SQYD	1,350	1,350
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	75	75
40600300	AGGREGATE (PRIME COAT)	TON	20	20
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	26	26
42000300	PORTLAND CEMENT CONCRETE PAVEMENT, 8"	SQYD	100	100
42101300	PROTECTIVE COAT	SQYD	4,475	4,475
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT,	SQYD	410	410
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5"	SQFT	27,600	27,600
42400800	DETECTABLE WARNINGS	SQFT	1,350	1,350
44000100	PAVEMENT REMOVAL	SQYD	100	100
44000154	HOT-MIX ASPHALT SURFACE REMOVAL 1 1/4"	SQYD	585	585
44000200	DRIVEWAY PAVEMENT REMOVAL	SQYD	650	650
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	3,570	3,570
44000600	SIDEWALK REMOVAL	SQFT	46,000	46,000
56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	45	45
60206905	CATCH BASIN, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	1	1
60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	EACH	3	3
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	6	6
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1
60266600	VALVE BOXES TO BE ADJUSTED	EACH	5	5
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	30	30
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	4	4

* DENOTES SPECIALTY ITEM

SUMMARY OF QUANTITIES

CODE	PAY ITEM	UNIT	Y003	
			TOTAL QUANTITY	80% FEDERAL 20% LOCAL
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	3	3
60601005	CONCRETE CURB, TYPE B (SPECIAL)	FOOT	550	550
60604100	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (MOD.)	FOOT	3,570	3,570
67100100	MOBILIZATION	LSUM	1	1
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LSUM	1	1
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH	2	2
* 81018500	CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	1,045	1,045
* 81019000	CONDUIT PUSHED, 5" DIA., GALVANIZED STEEL	FOOT	125	125
* 81400115	HANDHOLE TO BE ADJUSTED	EACH	21	21
* 81603040	UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, (XLP-TYPE USE), 1" DIA., POLYETHYLENE	FOOT	8,025	8,025
* 81702400	ELECTRIC CABLE IN CONDUIT, 600V, (XLP-TYPE USE) 3-1/C NO. 2	FOOT	300	300
* 81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	6,475	6,475
* 82500505	LIGHTING CONTROLLER, SPECIAL	EACH	2	2
* 83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	365	365
* A2000724	TREE, ACER PLATANOIDES COLUMNARE (COLUMNAR NORWAY MAPLE), 3" CALIPER, BALLED AND BURLAPPED	EACH	2	2
* A2004724	TREE, GLEDITSIA TRIACANTHOS INTERMIS SHADEMASTER (SHADEMASTER THORNLESS COMMON HONEY LOCUST) 3" CALIPER, BALLED AND BURLAPPED	EACH	6	6
* A2008124	TREE, TILIA CORDATE GREENSPIRE (GREENSPIRE LITTLE LEAF LINDEN), 3" CALIPER, BALLED AND BURLAPPED	EACH	7	7
* B2005616	TREE, PYRUS CALLERYANA BRADFORD (BRADFORD GALLERY PEAR) 2" CALIPER, TREE FORM BALLED AND BURLAPPED	EACH	2	2
XX001186	PLANTER REMOVAL	EACH	21	21
XX001672	STORM SEWERS, PVC, SDR 26, 12"	FOOT	80	80
XX003059	DECORATIVE BRICK SIDEWALK	SQFT	27,000	27,000
X0322256	TEMPORARY INFORMATION SIGNING	SQFT	103	103
XX003424	CONNECTION TO EXISTING STRUCTURE	EACH	2	2

* DENOTES SPECIALTY ITEM

SUMMARY OF QUANTITIES

CODE	PAY ITEM	UNIT	Y003	
			TOTAL QUANTITY	80% FEDERAL 20% LOCAL
X0323426	SEDIMENT CONTROL DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	25	25
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL M	6	6
* X0323857	EXISTING LIGHT POLE FOUNDATION TO BE ADJUSTED	EACH	6	6
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
Z0076600	TRAINEES	HOURL	500	500
XX007151	PLANTER RAILING	FOOT	550	550
* XX007152	DECORATIVE LIGHT POLE, ALUMINUM, 12' MOUNTING HEIGHT	EACH	60	60
* XX007153	DECORATIVE ACORN STYLE LUMINAIRE, SODIUM VAPOR, TENON MOUNT, 70 WATT	EACH	60	60
XX007000	PORTLAND CEMENT CONCRETE BASE COURSE, 3"	SQFT	8,075	8,075
* XX006939	GROUND ROD, 5/8" X 10 FT	EACH	60	60

* DENOTES SPECIALTY ITEM

Δ Y080

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◆ Civil Engineers
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◆ Established 1911

9933 Roosevelt Road
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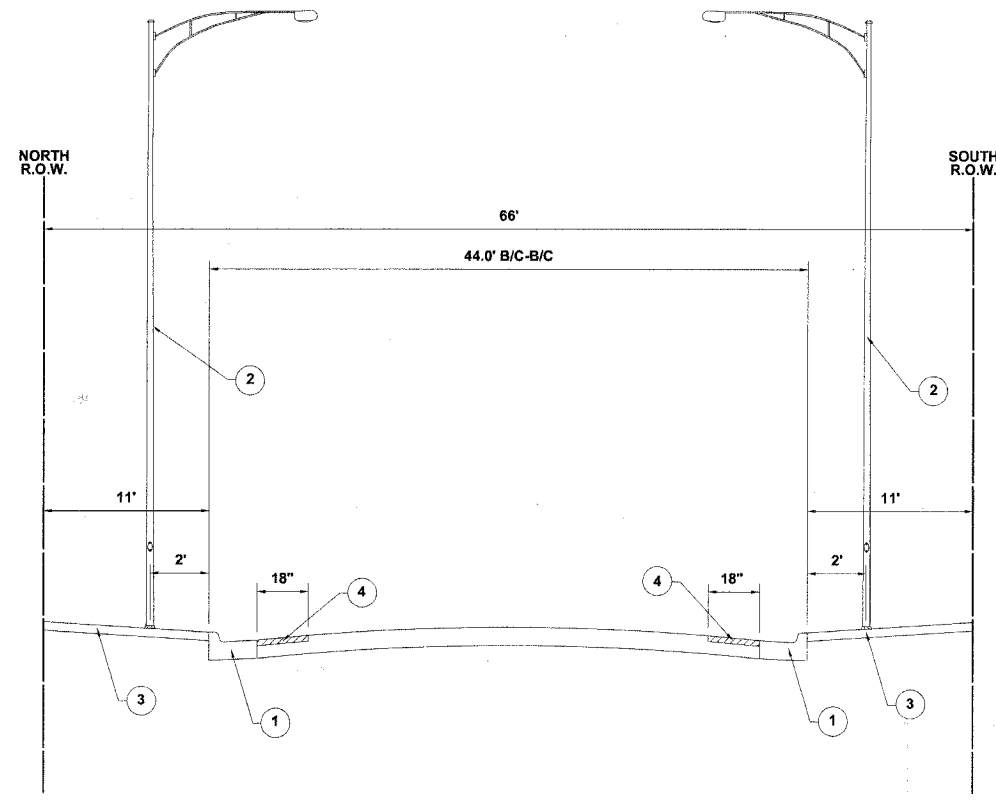
**GRAND AVENUE STREETSCAPE PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS**

SUMMARY OF QUANTITIES

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DATE: 10-15-07
E.H.E. NO.: 760-06-03320

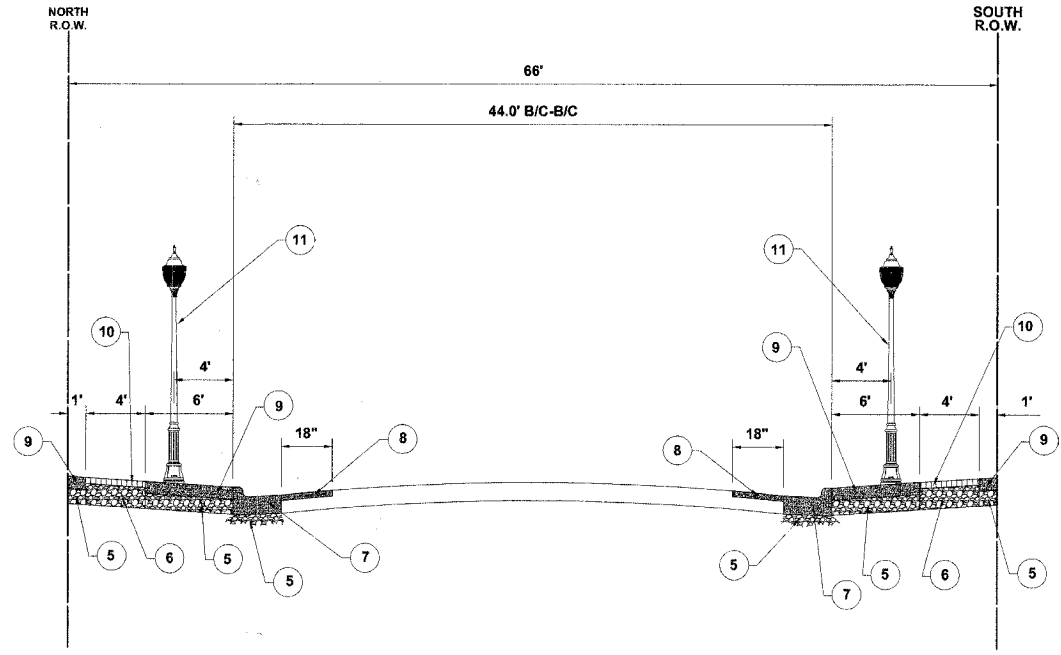
SHEET
4
OF
35



EXISTING TYPICAL CROSS SECTION
GRAND AVENUE
STATION 11+85 TO STATION 21+00

TYPICAL CROSS SECTION LEGEND

- ① COMBINATION CURB & GUTTER REMOVAL AS NOTED ON PLANS
- ② ROADWAY LIGHT POLE, 35' MOUNTING HEIGHT WITH 8' OR 12' MAST ARM AT APPROXIMATELY 180' SPACING
- ③ SIDEWALK AREA, PORTLAND CEMENT CONCRETE OR ASPHALT AS NOTED ON PLANS. REMOVAL TO BE PAID FOR AS SIDEWALK REMOVAL OR EARTH EXCAVATION AS NOTED ON PLANS
- ④ HOT-MIX ASPHALT SURFACE REMOVAL, 1-1/4" (WHERE COMBINATION CONCRETE CURB & GUTTER IS REMOVED)
- ⑤ 2" CRUSHED STONE (COST IS INCLUDED IN PCC SIDEWALK, 5", PCC BASE COURSE, 3", PCC BASE COURSE, 7", OR COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (MODIFIED) ITEMS)
- ⑥ AGGREGATE BASE COURSE, TYPE B, 4"
- ⑦ COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (MODIFIED)
- ⑧ HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70, 1-1/2", IL-9.5 MM
- ⑨ PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- ⑩ DECORATIVE BRICK SIDEWALK
- ⑪ DECORATIVE LIGHT POLE, ALUMINUM, 12' MOUNTING HEIGHT WITH DECORATIVE ACORN STYLE LUMINAIRE, SODIUM VAPOR, TENON MOUNT, 70 WATT (3 PER BLOCK)
- ⑫ PORTLAND CEMENT CONCRETE BASE COURSE, 3"

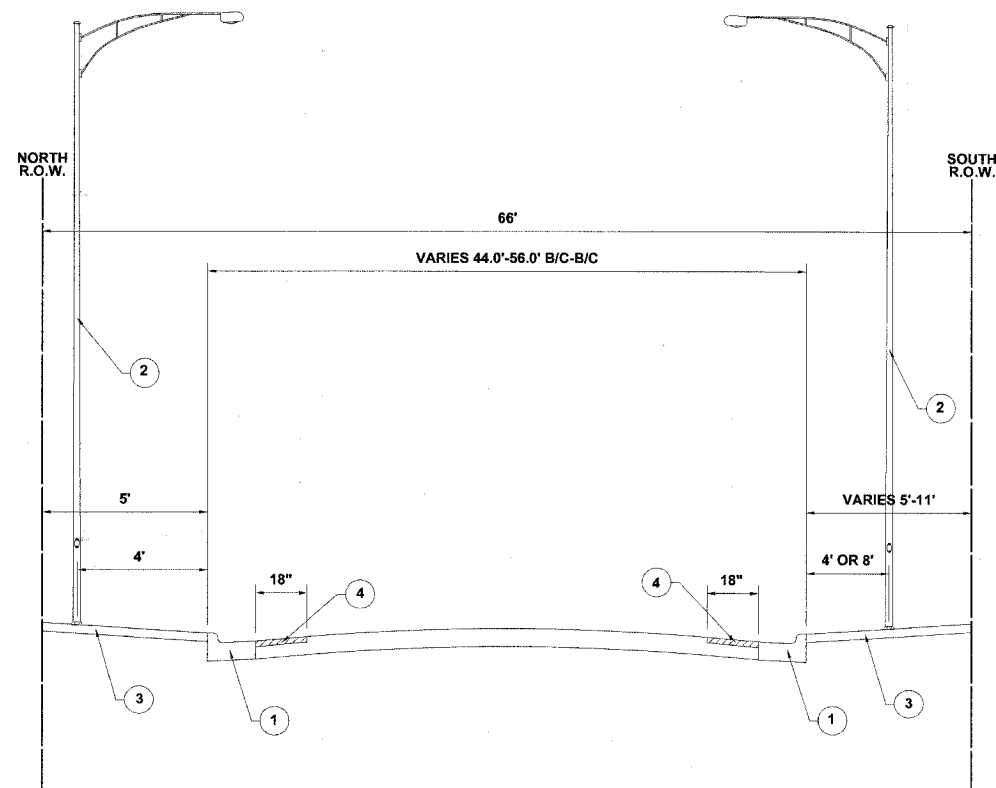


PROPOSED TYPICAL CROSS SECTION
GRAND AVENUE
STATION 11+85 TO STATION 21+00

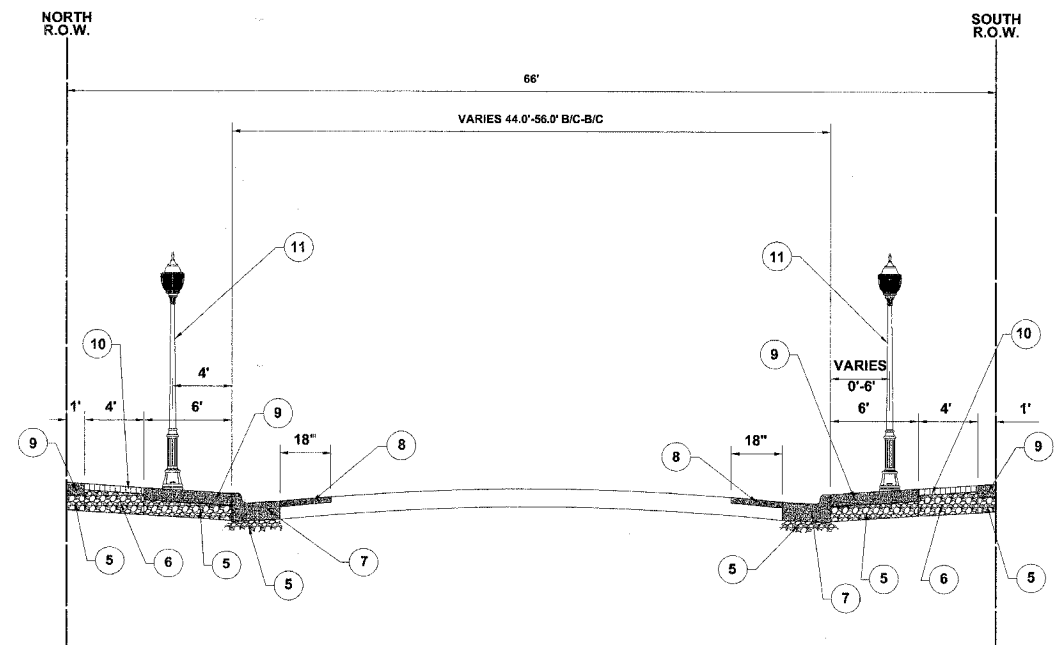
HOT-MIX ASPHALT (HMA) MIXTURE REQUIREMENTS

ITEM	A C TYPE	VOIDS
HMA SURFACE COURSE MIX C, N70, 1-1/2", IL-9.5 MM	PG 64-22	4% @ 70 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE IS 112 LBS/SQYD/IN.
 WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

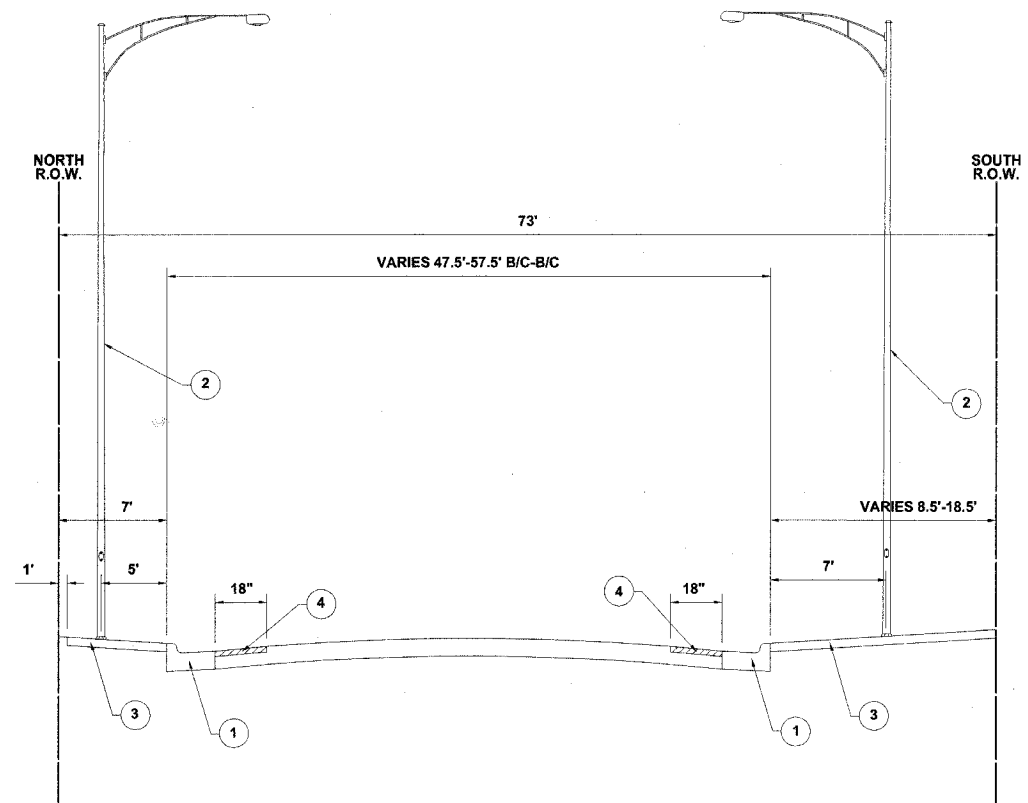


EXISTING TYPICAL CROSS SECTION
GRAND AVENUE
STATION 21+00 TO STATION 26+50



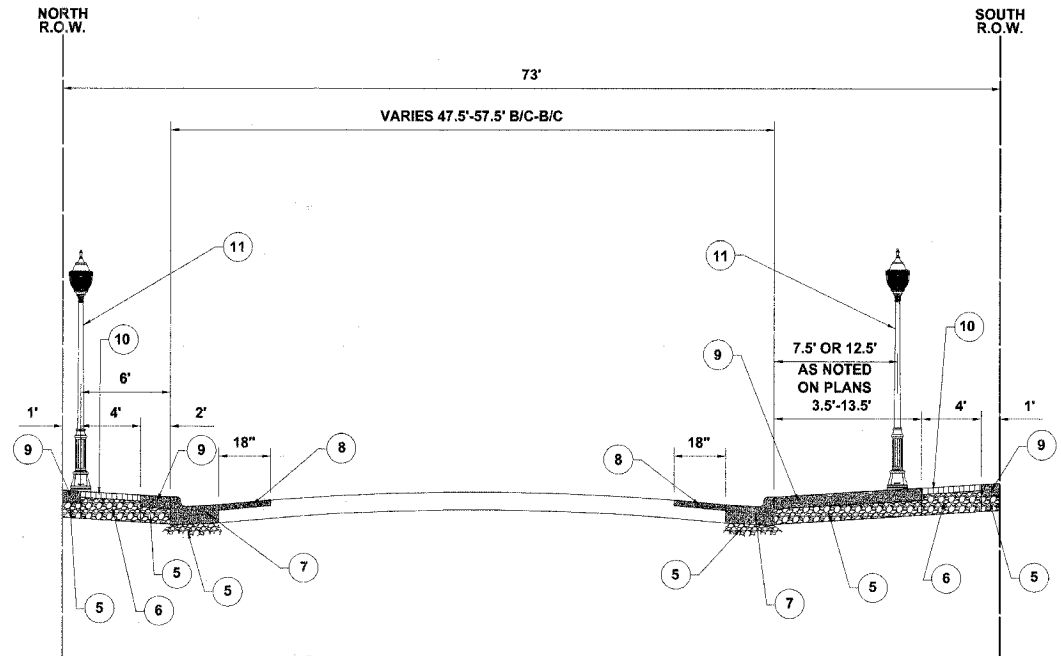
PROPOSED TYPICAL CROSS SECTION
GRAND AVENUE
STATION 21+00 TO STATION 26+50

Drawing file: W:\Projects\76060033 - Grand Ave Streetscape\Typical.dwg Oct 16, 2007 - 2:22pm



EXISTING TYPICAL CROSS SECTION
GRAND AVENUE
STATION 26+50 TO STATION 29+00

- TYPICAL CROSS SECTION LEGEND**
- 1 COMBINATION CURB & GUTTER REMOVAL AS NOTED ON PLANS
 - 2 ROADWAY LIGHT POLE, 35' MOUNTING HEIGHT WITH 8' OR 12' MAST ARM AT APPROXIMATELY 180' SPACING
 - 3 SIDEWALK AREA, PORTLAND CEMENT CONCRETE OR ASPHALT AS NOTED ON PLANS. REMOVAL TO BE PAID FOR AS SIDEWALK REMOVAL OR EARTH EXCAVATION AS NOTED ON PLANS
 - 4 HOT-MIX ASPHALT SURFACE REMOVAL, 1-1/4" (WHERE COMBINATION CONCRETE CURB & GUTTER IS REMOVED)
 - 5 2" CRUSHED STONE (COST IS INCLUDED IN PCC SIDEWALK, 5", PCC BASE COURSE, 3", PCC BASE COURSE, 7", OR COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (MODIFIED) ITEMS)
 - 6 AGGREGATE BASE COURSE, TYPE B, 4"
 - 7 COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (MODIFIED)
 - 8 HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70, 1-1/2", IL-9.5 MM
 - 9 PORTLAND CEMENT CONCRETE SIDEWALK, 5"
 - 10 DECORATIVE BRICK SIDEWALK
 - 11 DECORATIVE LIGHT POLE, ALUMINUM, 12' MOUNTING HEIGHT WITH DECORATIVE ACORN STYLE LUMINAIRE, SODIUM VAPOR, TENON MOUNT, 70 WATT (3 PER BLOCK)
 - 12 PORTLAND CEMENT CONCRETE BASE COURSE, 3"

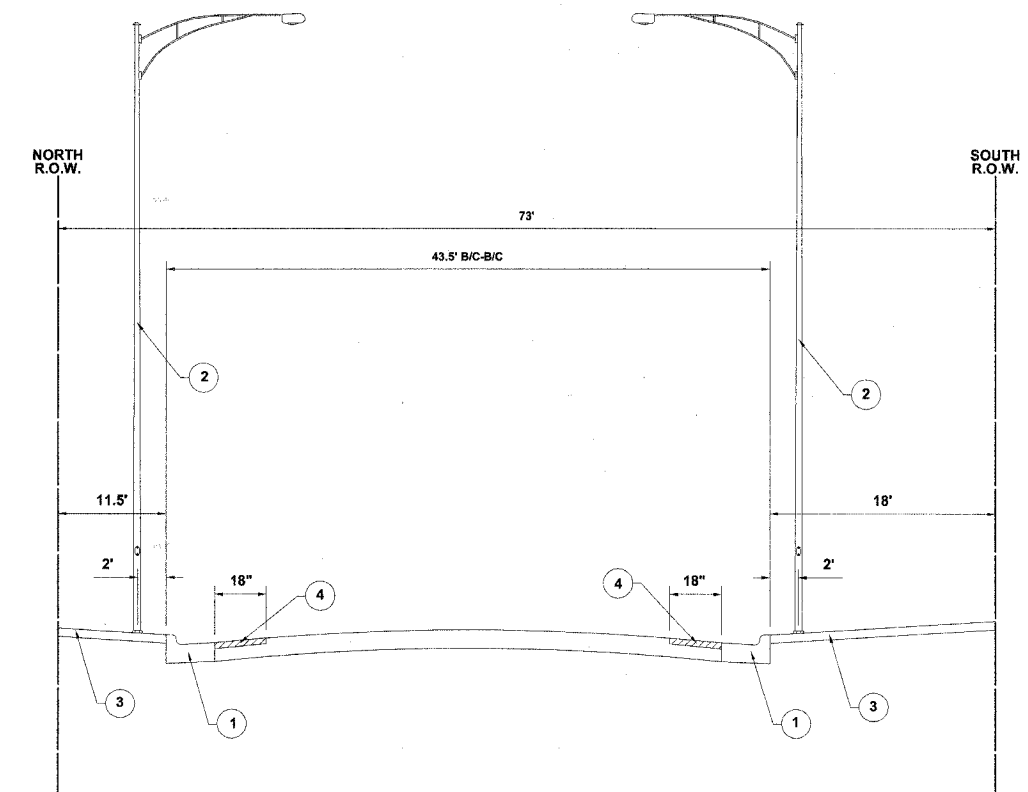


PROPOSED TYPICAL CROSS SECTION
GRAND AVENUE
STATION 26+50 TO STATION 29+00

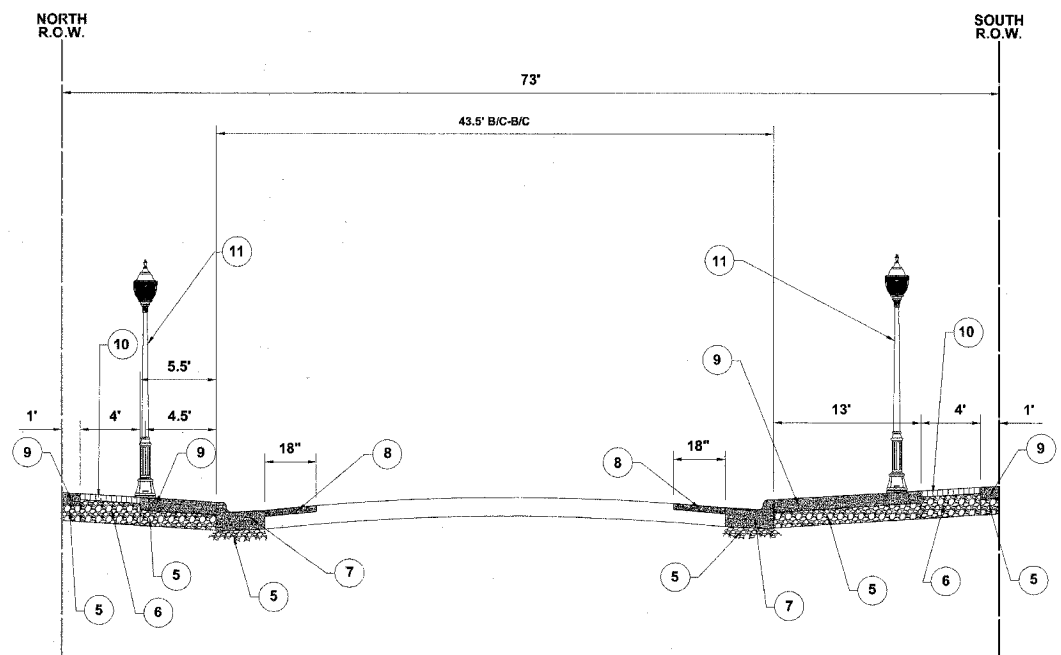
HOT-MIX ASPHALT (HMA) MIXTURE REQUIREMENTS

ITEM	A C TYPE	VOIDS
HMA SURFACE COURSE, MIX C, N70, 1-1/2", IL-9.5 MM	PG 64-22	4% @ 70 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE IS 112 LBS/SQYD/IN. WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.



EXISTING TYPICAL CROSS SECTION
GRAND AVENUE
STATION 29+00 TO STATION 37+00



PROPOSED TYPICAL CROSS SECTION
GRAND AVENUE
STATION 29+00 TO STATION 37+00

Drawing file: W:\Projects\76060323 - Grand Ave Streetscape\Typicals.dwg Oct 16, 2007 - 2:22pm

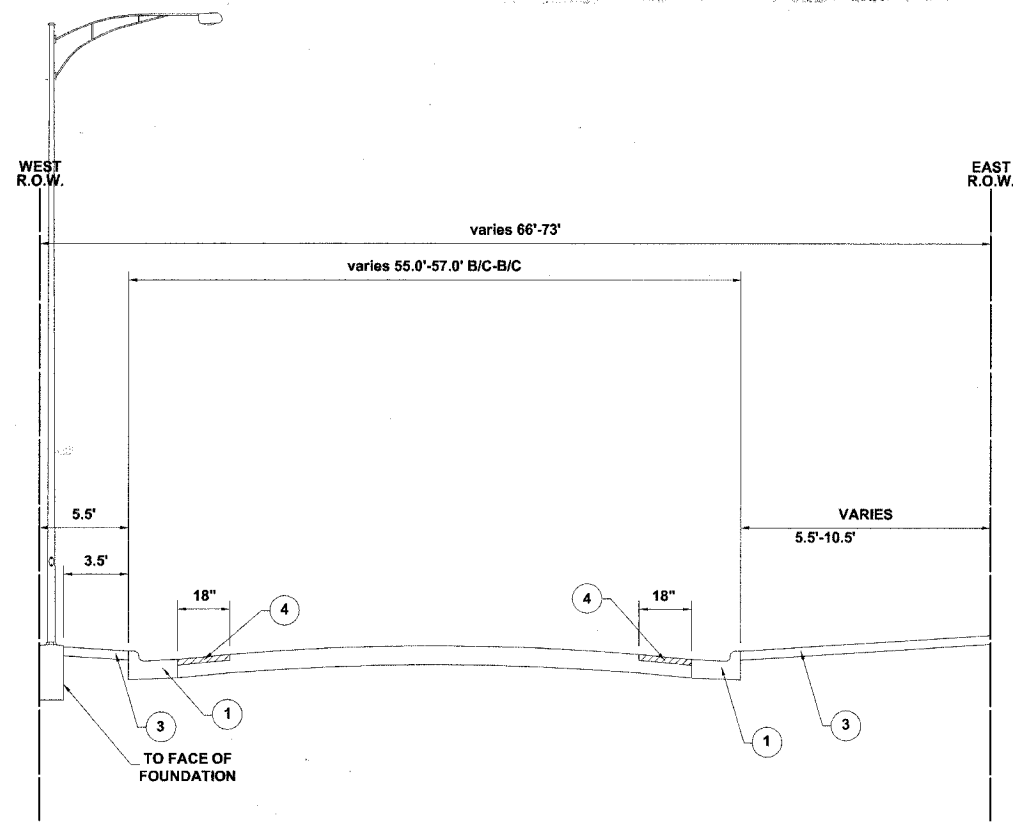
HANCOCK ENGINEERING ♦ Civil Engineers ♦ Municipal Consultants ♦ Established 1911
 9933 Roosevelt Road Westchester, Illinois 60154-2780
 Phone: 708/865-0300 Fax: 708/865-1212

GRAND AVENUE STREETSCAPE PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS

TYPICAL CROSS SECTIONS

SCALE: NONE
 DRAWN BY: LEV/ECW/MK
 BOOK NO.: 1441,1443,1516
 DATE: 10-15-07
 E.H.E. NO.: 760-06-03320

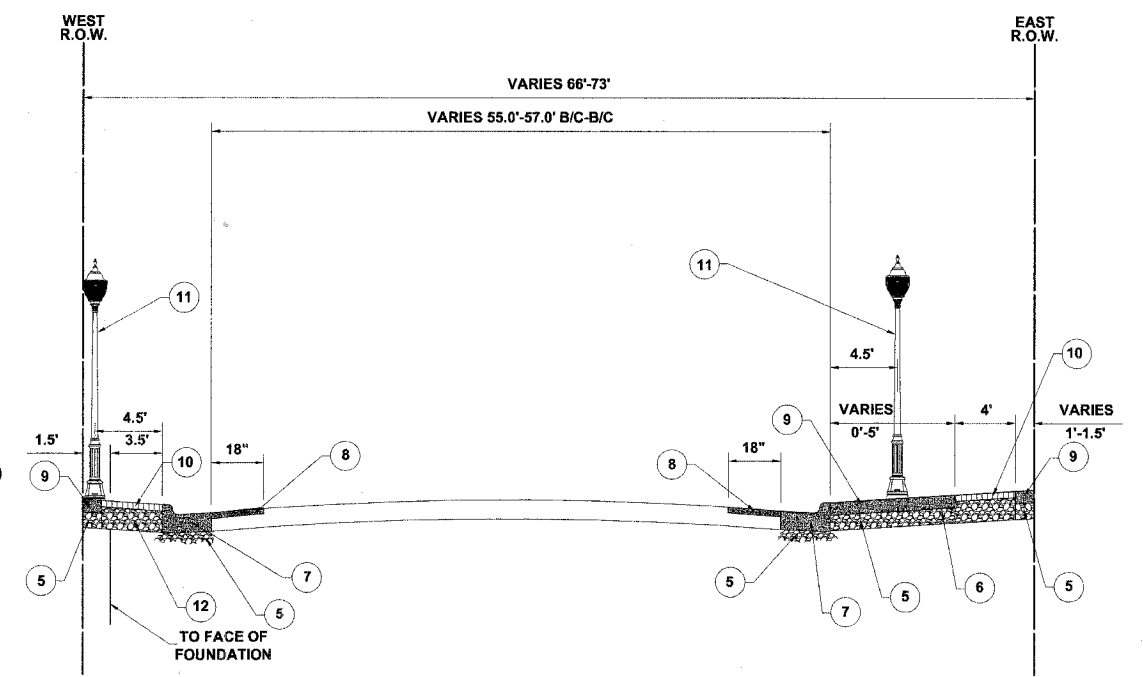
SHEET 6 OF 35



EXISTING TYPICAL CROSS SECTION
THATCHER AVENUE
STATION 4+35 TO STATION 6+15

TYPICAL CROSS SECTION LEGEND

- 1 COMBINATION CURB & GUTTER REMOVAL AS NOTED ON PLANS
- 2 ROADWAY LIGHT POLE, 35' MOUNTING HEIGHT WITH 8' OR 12' MAST ARM AT APPROXIMATELY 180' SPACING
- 3 SIDEWALK AREA, PORTLAND CEMENT CONCRETE OR ASPHALT AS NOTED ON PLANS. REMOVAL TO BE PAID FOR AS SIDEWALK REMOVAL OR EARTH EXCAVATION AS NOTED ON PLANS
- 4 HOT-MIX ASPHALT SURFACE REMOVAL, 1-1/4" (WHERE COMBINATION CONCRETE CURB & GUTTER IS REMOVED)
- 5 2" CRUSHED STONE (COST IS INCLUDED IN PCC SIDEWALK, 5", PCC BASE COURSE, 3", PCC BASE COURSE, 7", OR COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (MODIFIED) ITEMS)
- 6 AGGREGATE BASE COURSE, TYPE B, 4"
- 7 COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (MODIFIED)
- 8 HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70, 1-1/2", IL-9.5 MM
- 9 PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- 10 DECORATIVE BRICK SIDEWALK
- 11 DECORATIVE LIGHT POLE, ALUMINUM, 12' MOUNTING HEIGHT WITH DECORATIVE ACORN STYLE LUMINAIRE, SODIUM VAPOR, TENON MOUNT, 70 WATT (3 PER BLOCK)
- 12 PORTLAND CEMENT CONCRETE BASE COURSE, 3"

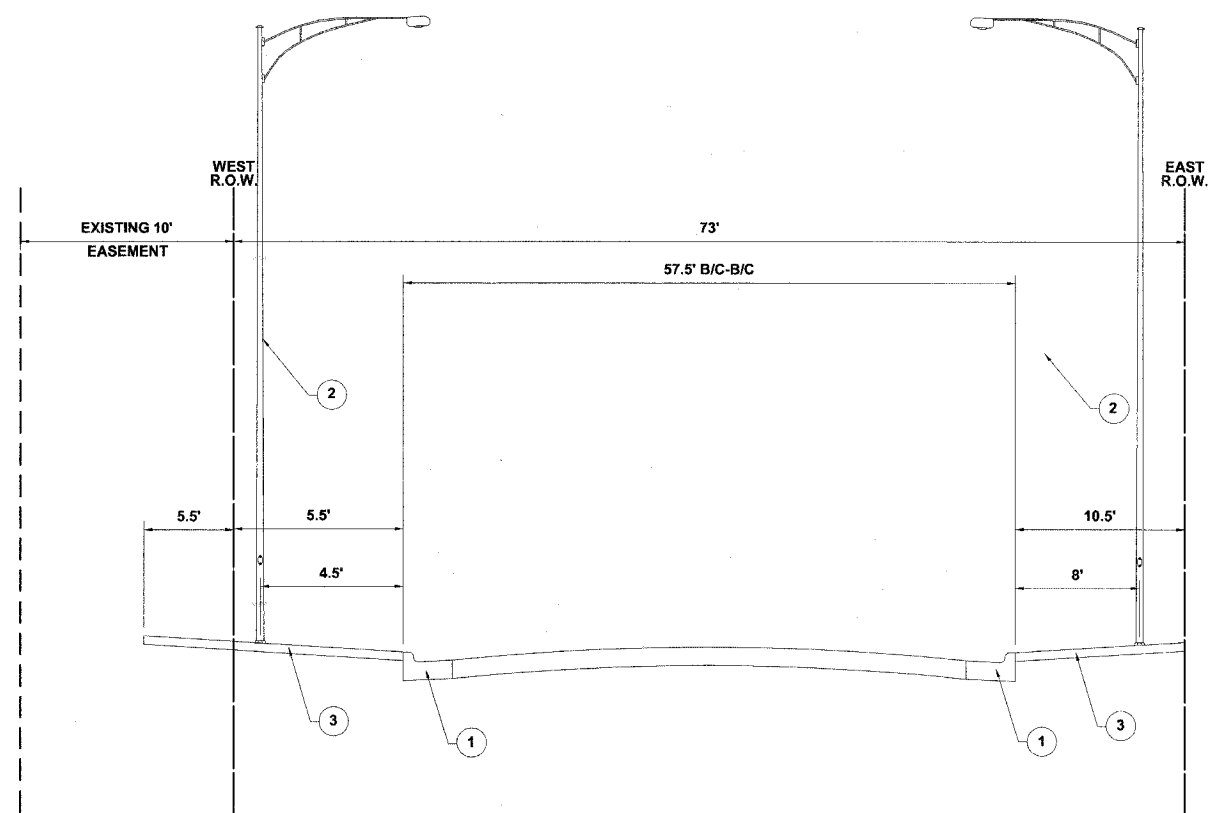


PROPOSED TYPICAL CROSS SECTION
THATCHER AVENUE
STATION 4+35 TO STATION 6+15

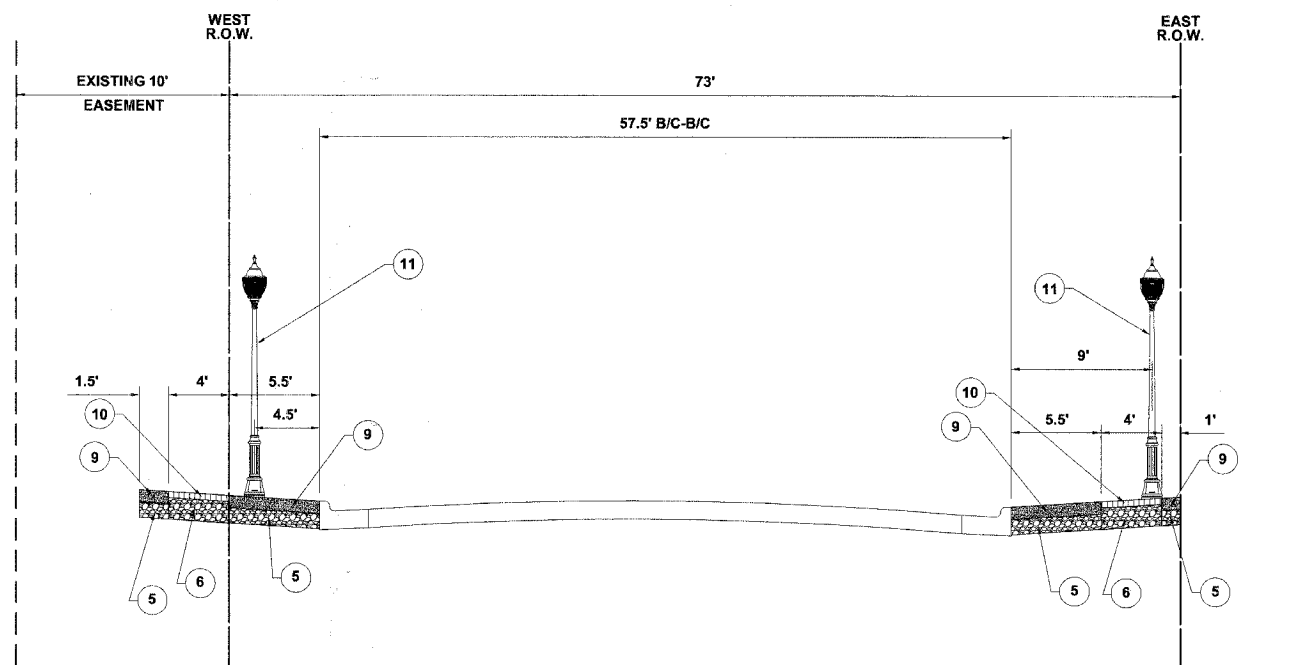
HOT-MIX ASPHALT (HMA) MIXTURE REQUIREMENTS

ITEM	A C TYPE	VOIDS
HMA SURFACE COURSE, MIX C, N70, 1-1/2", IL-9.5 MM	PG 64-22	4% @ 70 GYR.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE IS 112 LBS/SQYD/IN.
WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

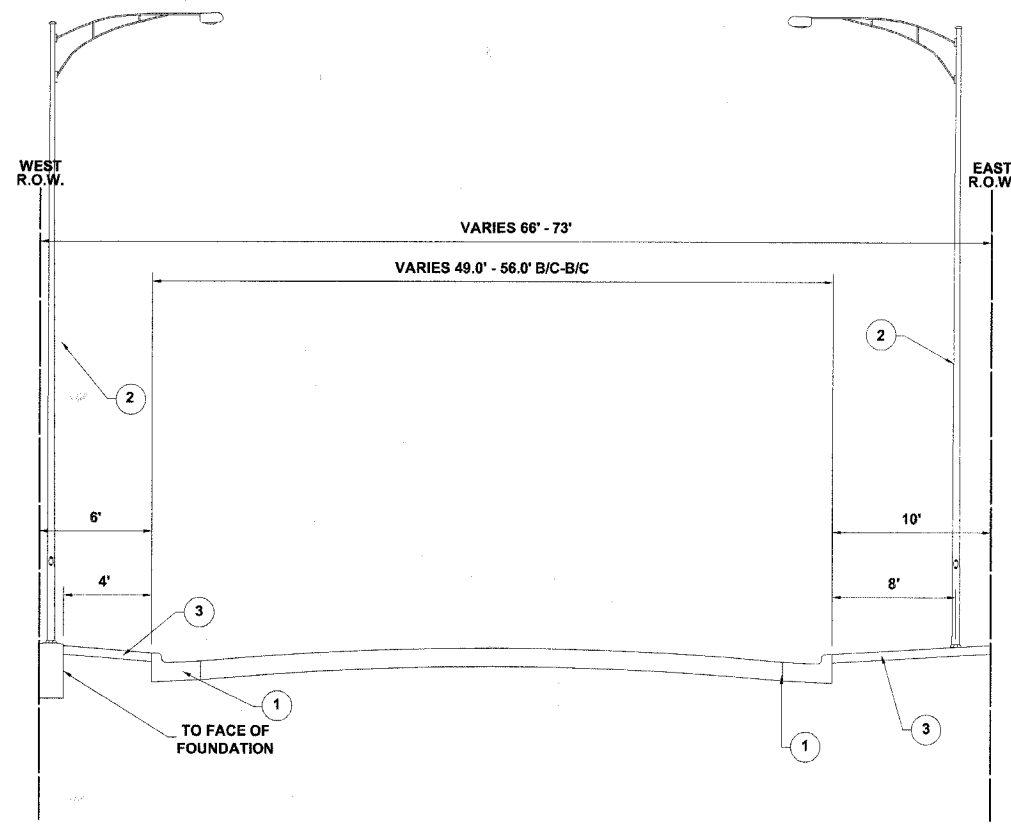


EXISTING TYPICAL CROSS SECTION
THATCHER AVENUE
STATION 6+15 TO STATION 8+00



PROPOSED TYPICAL CROSS SECTION
THATCHER AVENUE
STATION 6+15 TO STATION 8+00

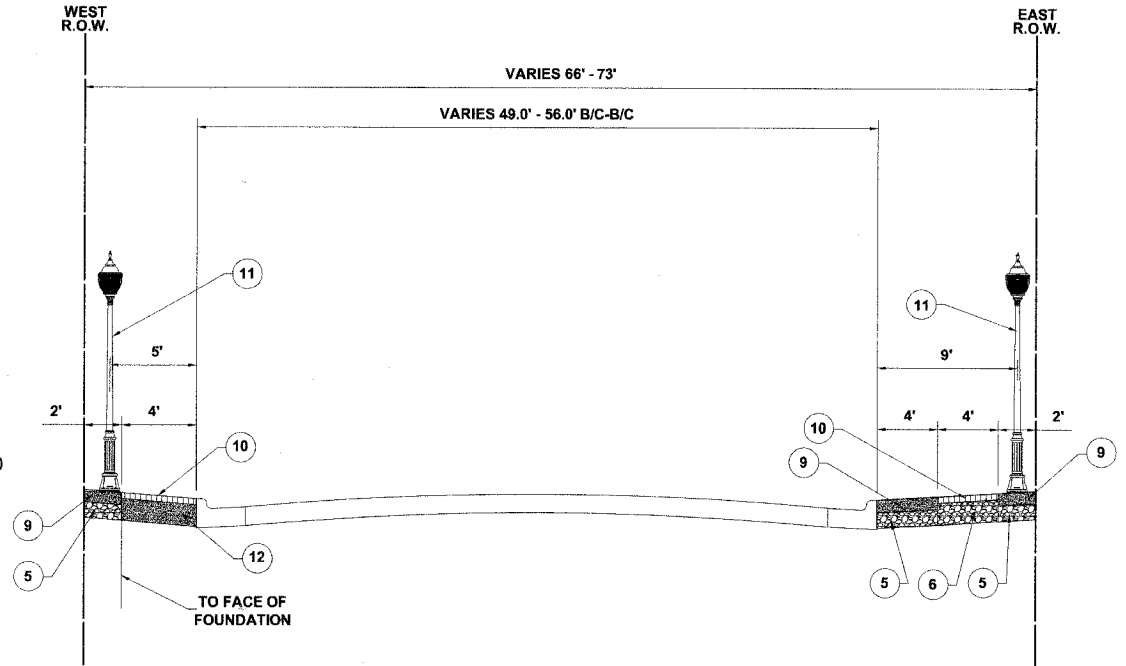
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EXISTING TYPICAL CROSS SECTION
THATCHER AVENUE
STATION 8+00 TO STATION 12+00

TYPICAL CROSS SECTION LEGEND

- 1 COMBINATION CURB & GUTTER REMOVAL AS NOTED ON PLANS
- 2 ROADWAY LIGHT POLE, 35' MOUNTING HEIGHT WITH 8' OR 12' MAST ARM AT APPROXIMATELY 180' SPACING
- 3 SIDEWALK AREA, PORTLAND CEMENT CONCRETE OR ASPHALT AS NOTED ON PLANS. REMOVAL TO BE PAID FOR AS SIDEWALK REMOVAL OR EARTH EXCAVATION AS NOTED ON PLANS
- 4 HOT-MIX ASPHALT SURFACE REMOVAL, 1-1/4" (WHERE COMBINATION CONCRETE CURB & GUTTER IS REMOVED)
- 5 2" CRUSHED STONE (COST IS INCLUDED IN PCC SIDEWALK, 5", PCC BASE COURSE, 3", PCC BASE COURSE, 7", OR COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (MODIFIED) ITEMS)
- 6 AGGREGATE BASE COURSE, TYPE B, 4"
- 7 COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12 (MODIFIED)
- 8 HOT-MIX ASPHALT SURFACE COURSE, MIX C, N70, 1-1/2", IL-9.5 MM
- 9 PORTLAND CEMENT CONCRETE SIDEWALK, 5"
- 10 DECORATIVE BRICK SIDEWALK
- 11 DECORATIVE LIGHT POLE, ALUMINUM, 12' MOUNTING HEIGHT WITH DECORATIVE ACORN STYLE LUMINAIRE, SODIUM VAPOR, TENON MOUNT, 70 WATT (3 PER BLOCK)
- 12 PORTLAND CEMENT CONCRETE BASE COURSE, 3"

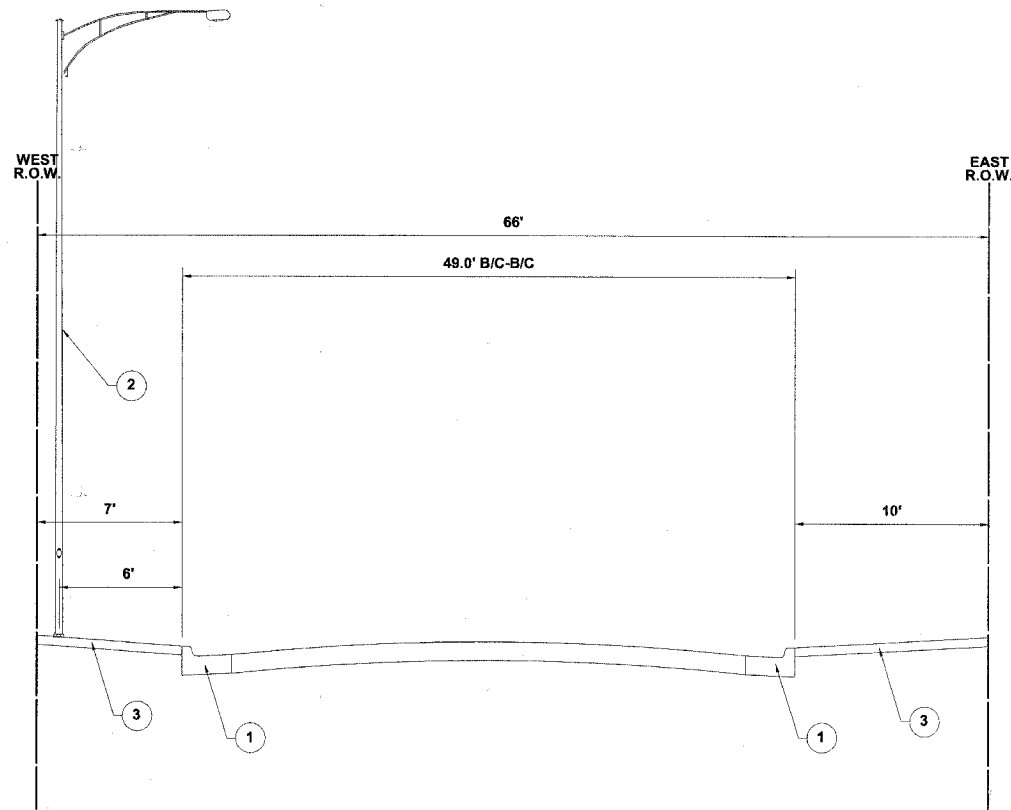


PROPOSED TYPICAL CROSS SECTION
THATCHER AVENUE
STATION 8+00 TO STATION 12+00

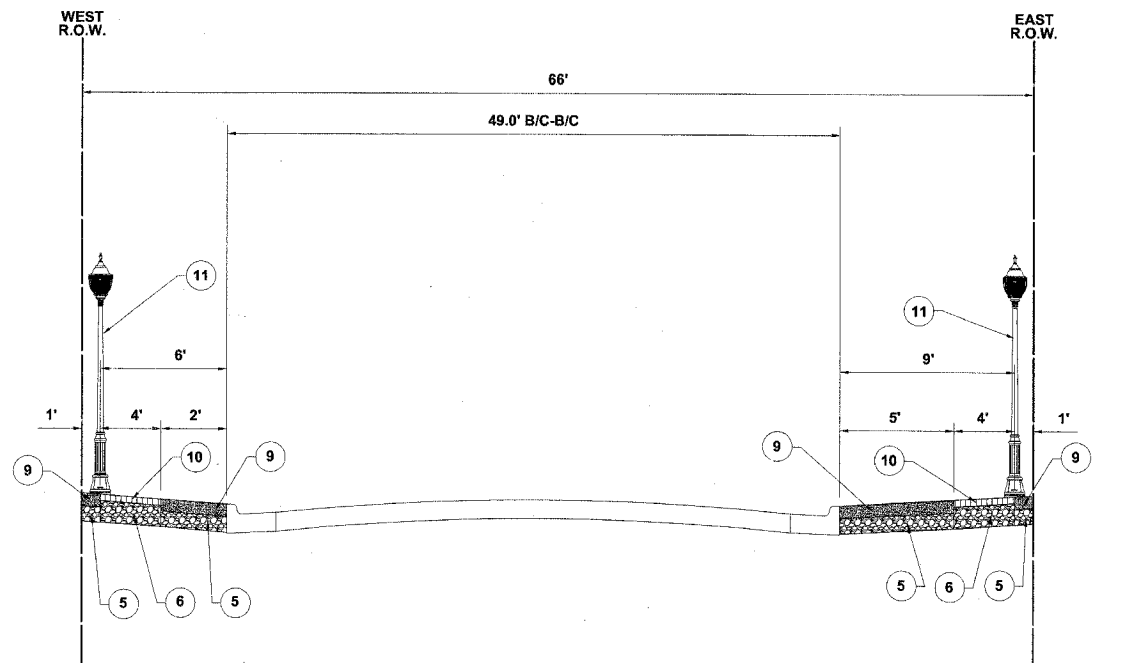
HOT-MIX ASPHALT (HMA) MIXTURE REQUIREMENTS

ITEM	A C TYPE	VOIDS
HMA SURFACE COURSE, MIX C, N70, 1-1/2", IL-9.5 MM	PG 64-22	4% @ 70 GYR.

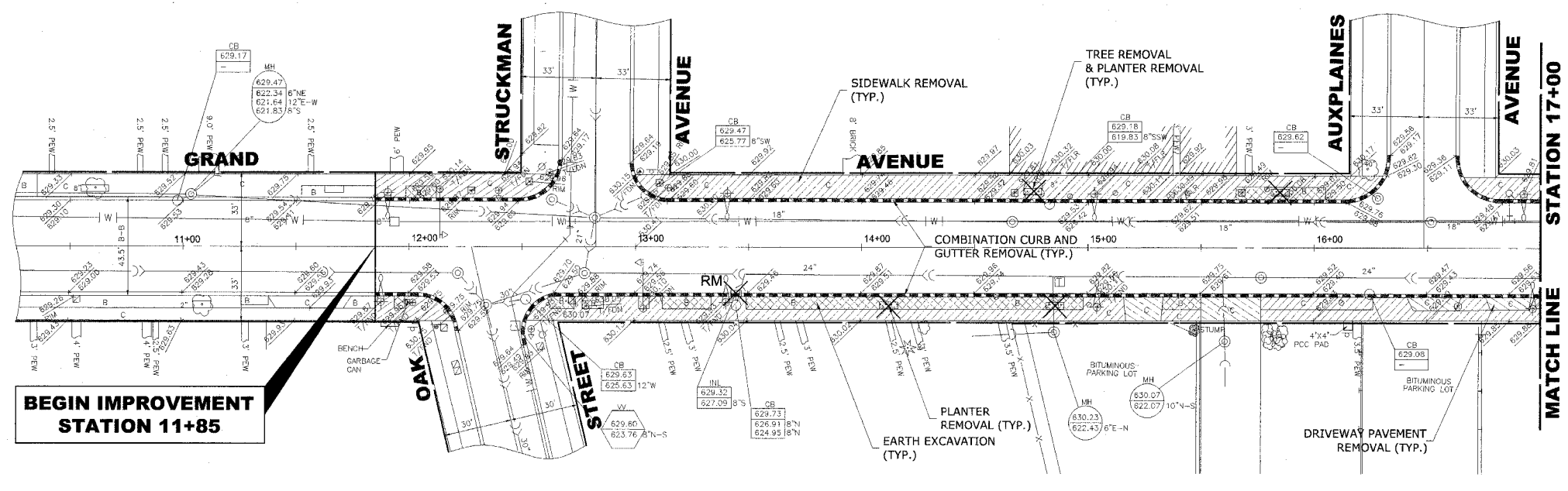
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE IS 112 LBS/SQYD/IN.
WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.



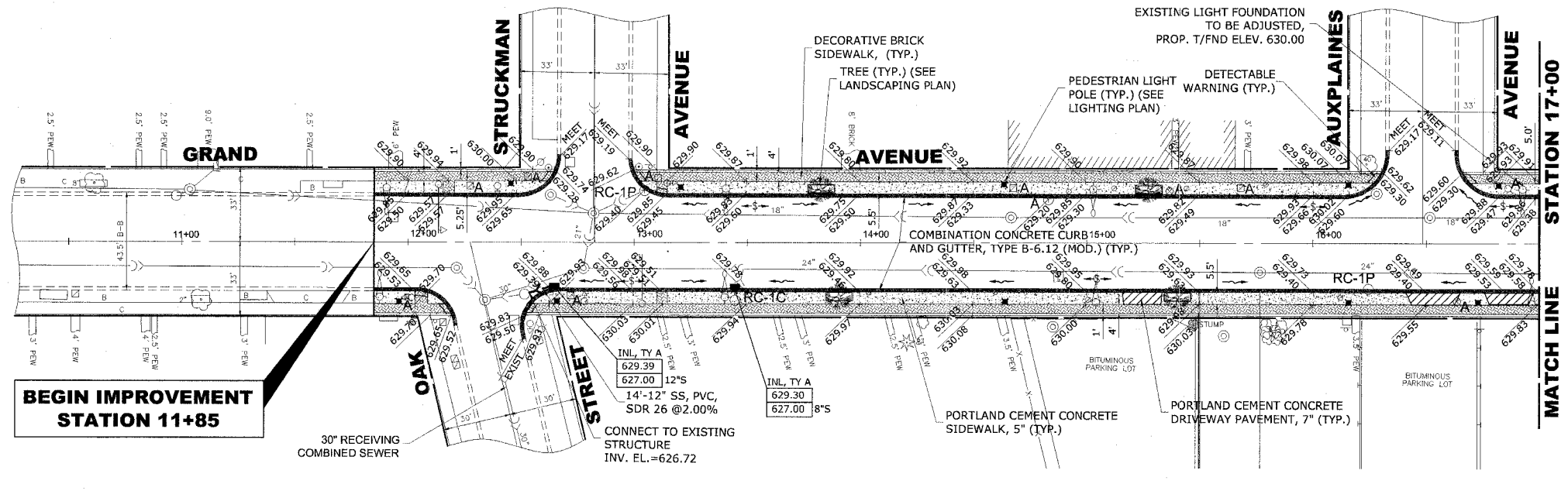
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THATCHER AVENUE
STATION 12+00 TO STATION 15+30



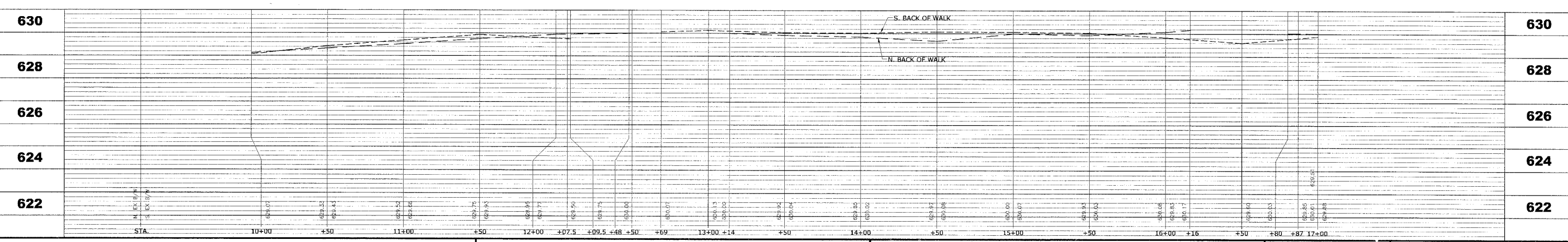
PROPOSED TYPICAL CROSS SECTION
THATCHER AVENUE
STATION 12+00 TO STATION 15+30



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENT



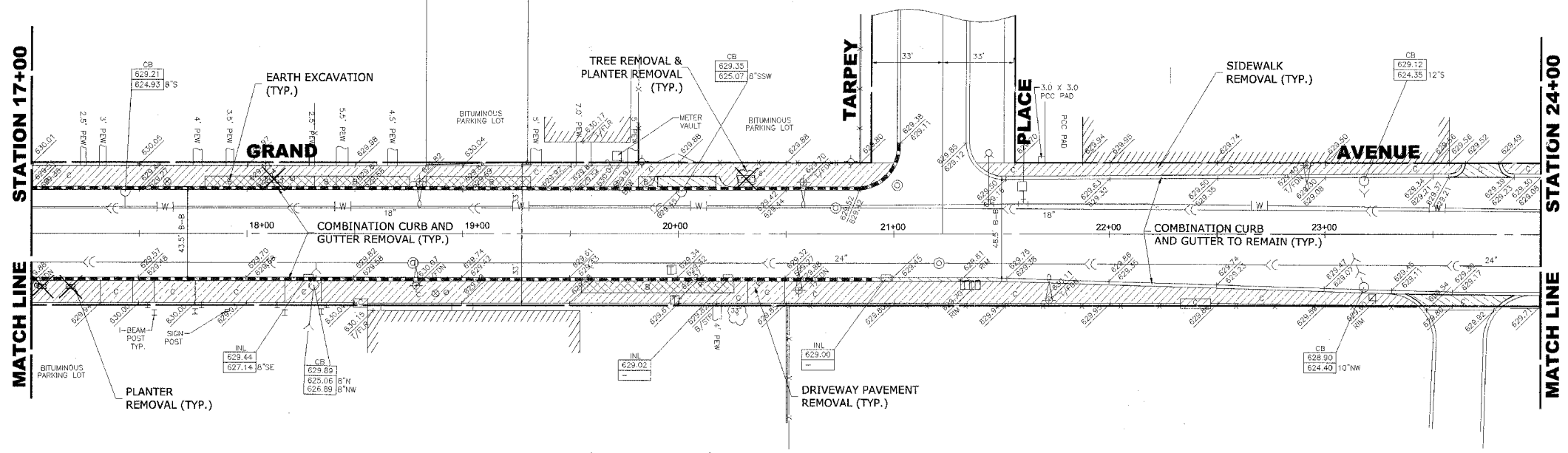
♦ Civil Engineers
 ♦ Municipal Consultants
 ♦ Established 1911
 9933 Roosevelt Road
 Westchester, Illinois 60154-2780
 Phone: 708/865-0300
 Fax: 708/865-1212

GRAND AVENUE STREETSCAPE PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS

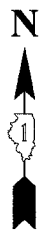
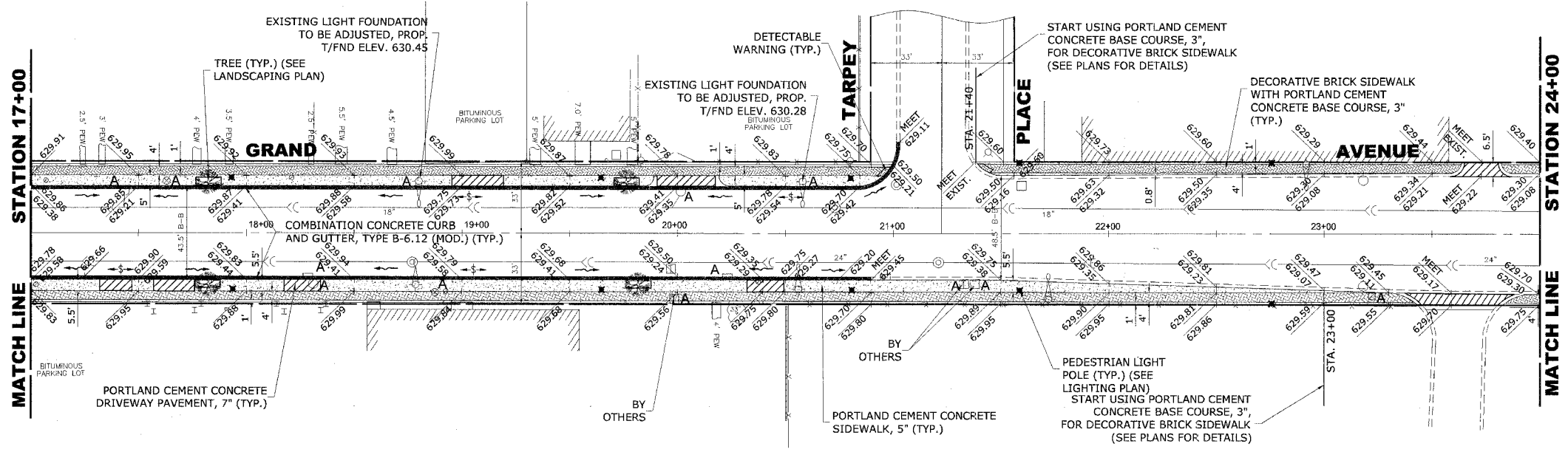
GRAND AVENUE
STREETSCAPING PLAN AND PROFILE

SCALE: 1"=30'H. & 1"=2'V.
 DRAWN BY: LEV/ECW/MK
 BOOK NO.: 1441,1443,1516
 DATE: 10-15-07
 E.I.E. NO.: 760-06-03320
 SHEET **9** / **35**

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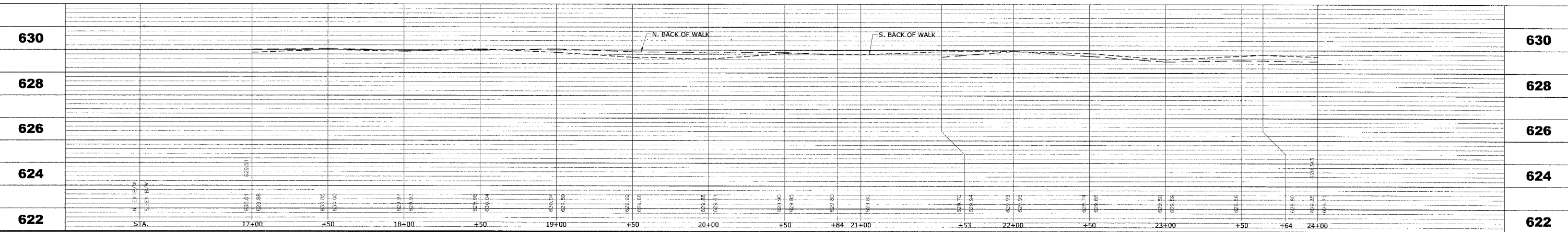


EXISTING TOPOGRAPHY



NOTE:
USE PORTLAND CEMENT CONCRETE BASE COURSE, 3", FOR DECORATIVE BRICK SIDEWALK, WHERE DECORATIVE BRICK SIDEWALK BUTTS AGAINST CURB

PROPOSED IMPROVEMENT



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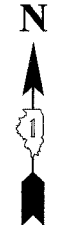
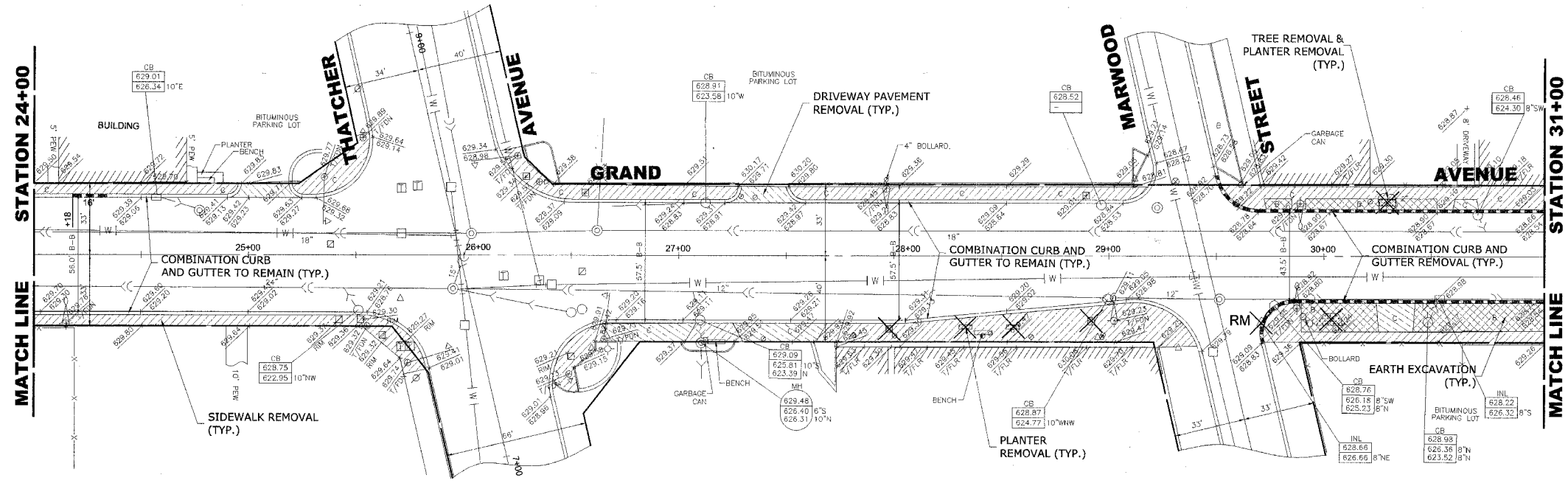
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Westchester, Illinois 60154-2780
Phone: 708/865-0300
Fax: 708/865-1212

**GRAND AVENUE STREETSCAPE PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS**

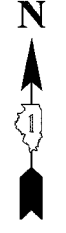
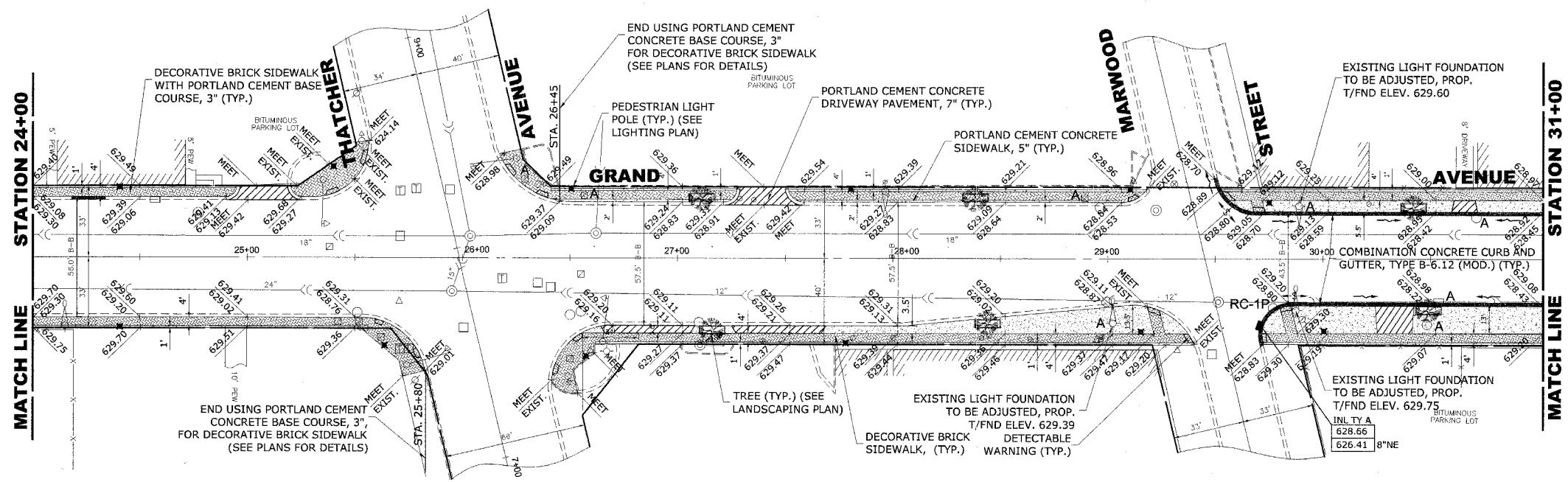
**GRAND AVENUE
STREETSCAPING PLAN AND PROFILE**

SCALE:	1"=30'H. & 1"=2'V.	SHEET	10
DRAWN BY:	LEV/ECW/IMK	OF	35
BOOK NO.:	1441,1443,1516		
DATE:	10-15-07		
E.H.E. NO.:	760-06-03320		

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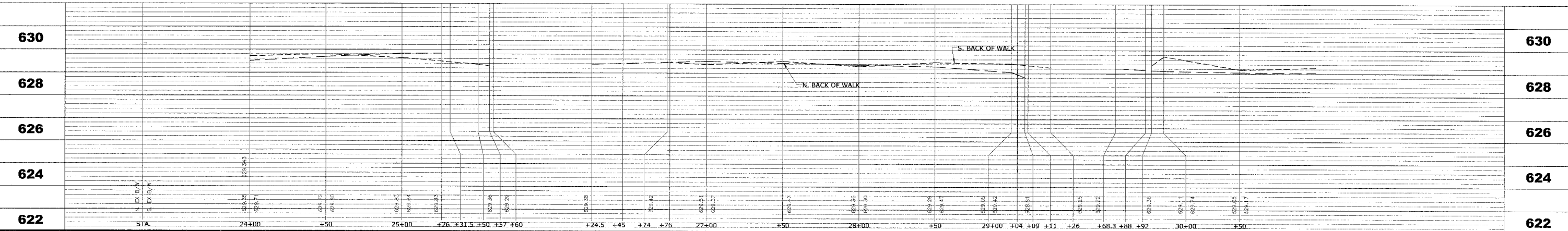


EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENT

NOTE:
USE PORTLAND CEMENT CONCRETE BASE COURSE, 3", FOR DECORATIVE BRICK SIDEWALK, WHERE DECORATIVE BRICK SIDEWALK BUTTS AGAINST CURB



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**GRAND AVENUE STREETScape PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS**

**GRAND AVENUE
STREETScape PLAN AND PROFILE**

SCALE: 1"=30'H. & 1"=2'V.

DRAWN BY: LEV/ECW/MK

BOOK NO.: 1441,1443,1516

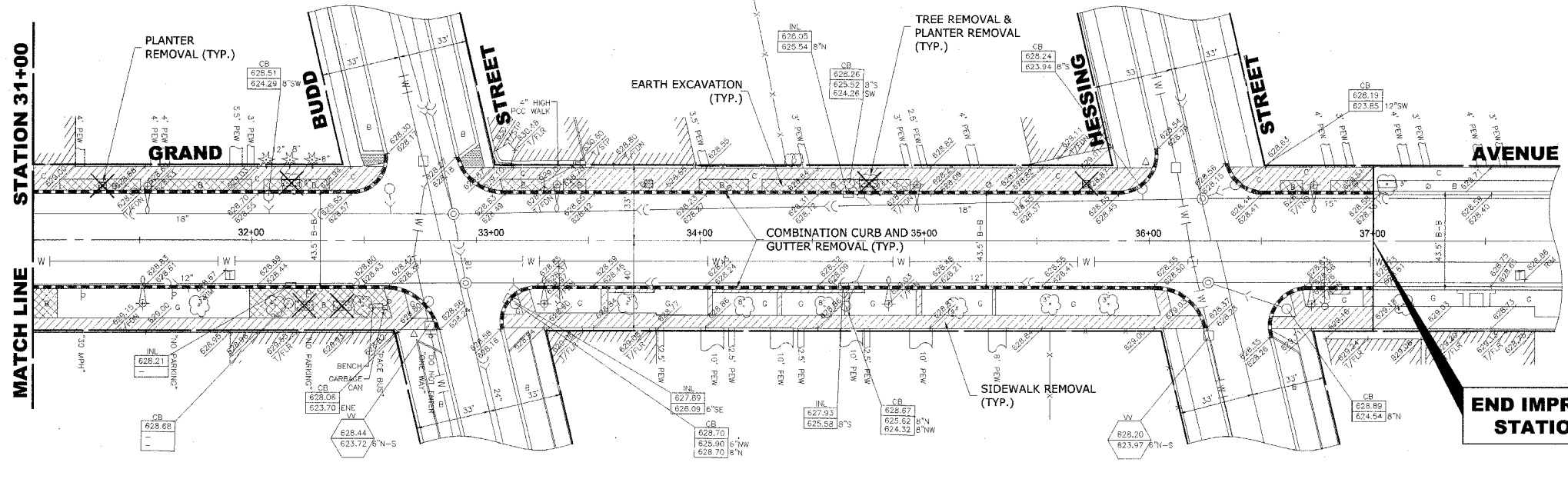
DATE: 10-15-07

E.H.E. NO.: 760-06-03320

REVISION:

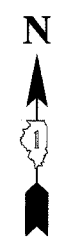
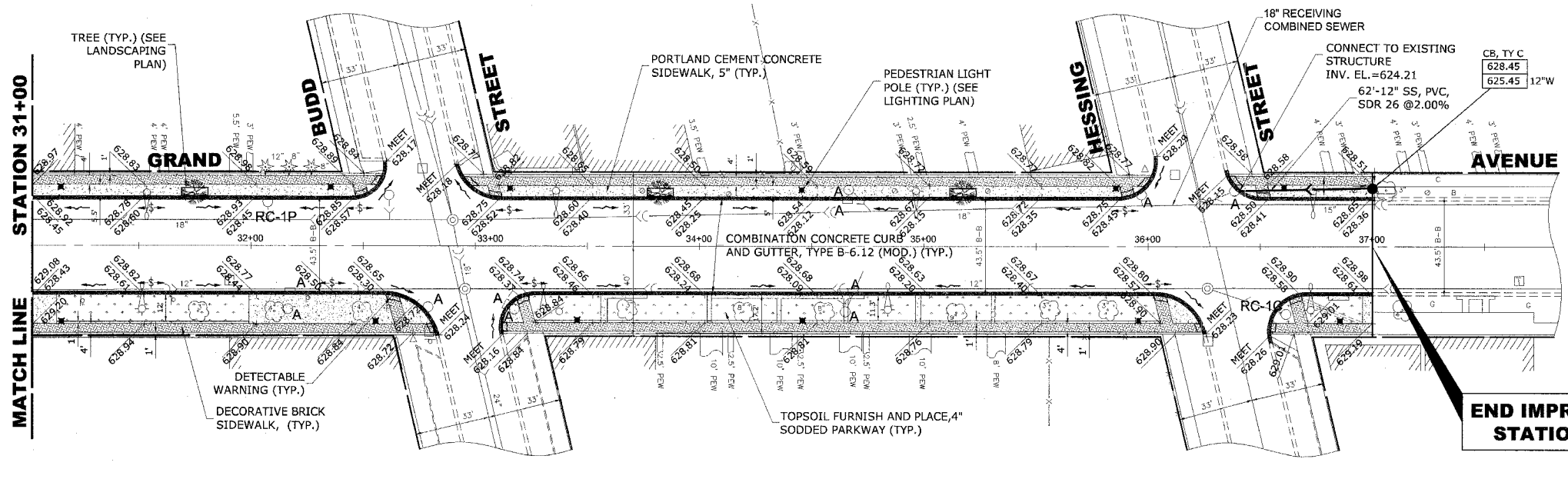
SHEET **11** OF **35**

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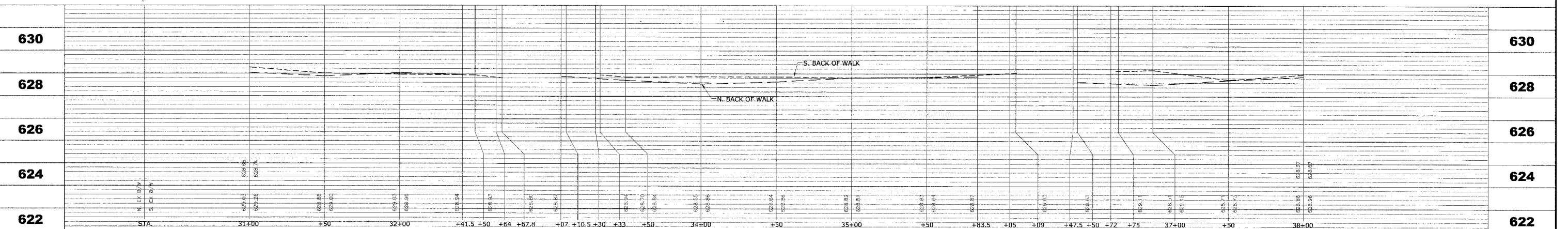
**END IMPROVEMENT
STATION 37+00**

EXISTING TOPOGRAPHY



**END IMPROVEMENT
STATION 37+00**

PROPOSED IMPROVEMENT



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**GRAND AVENUE STREETScape PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS**

**GRAND AVENUE
STREETScape PLAN AND PROFILE**

SCALE: 1"=30'H. & 1"=2'V.

DRAWN BY: LEV/ECW/MK

BOOK NO.: 1441,1443,1516

DATE: 10-15-07

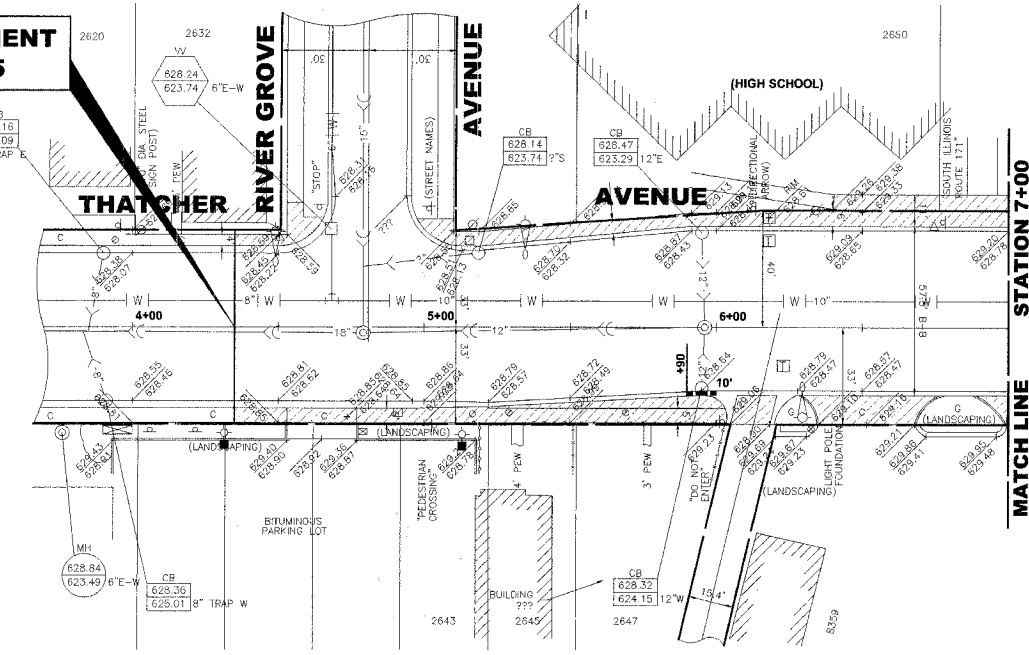
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REVISION:

SHEET **12** / **35**

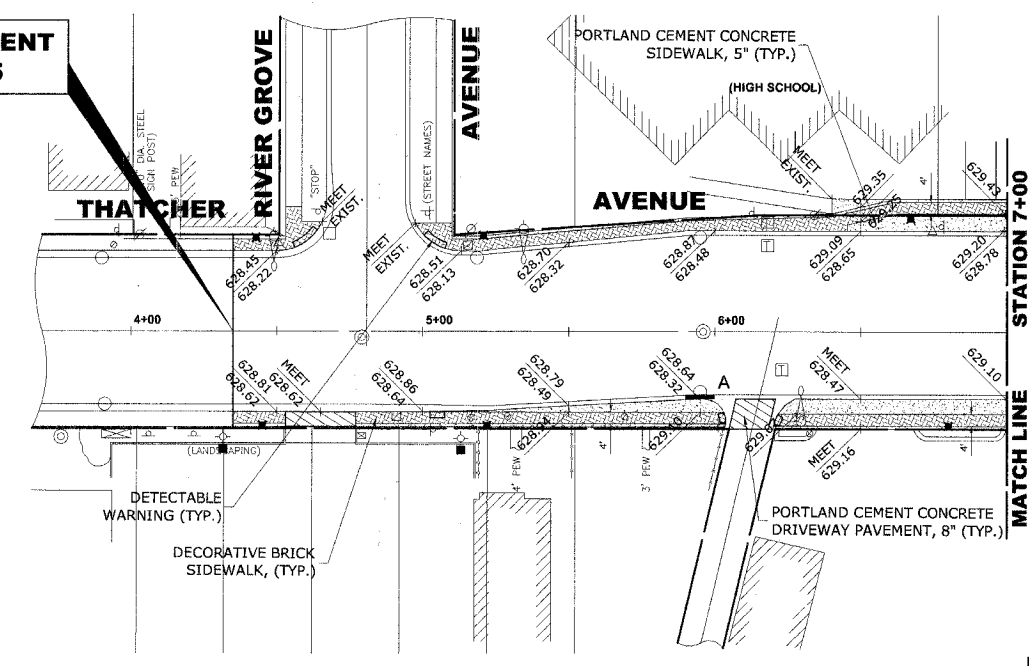
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**BEGIN IMPROVEMENT
STATION 4+35**

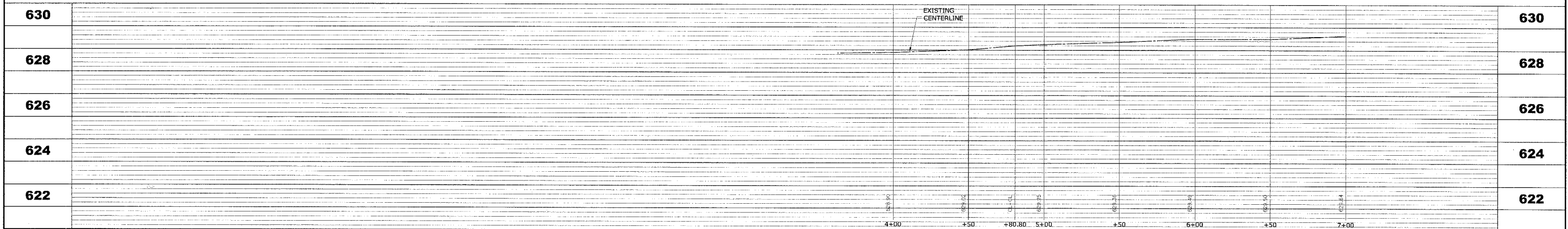


EXISTING TOPOGRAPHY

**BEGIN IMPROVEMENT
STATION 4+35**



PROPOSED IMPROVEMENTS



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Fax: 708/865-1212

**GRAND AVENUE STREETScape PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS**

**THATCHER AVENUE
STREETSCAPING PLAN AND PROFILE**

SCALE: 1"=30'H. & 1"=2'V.

DRAWN BY: LEV/ECW/MK

BOOK NO.: 1441,1443,1516

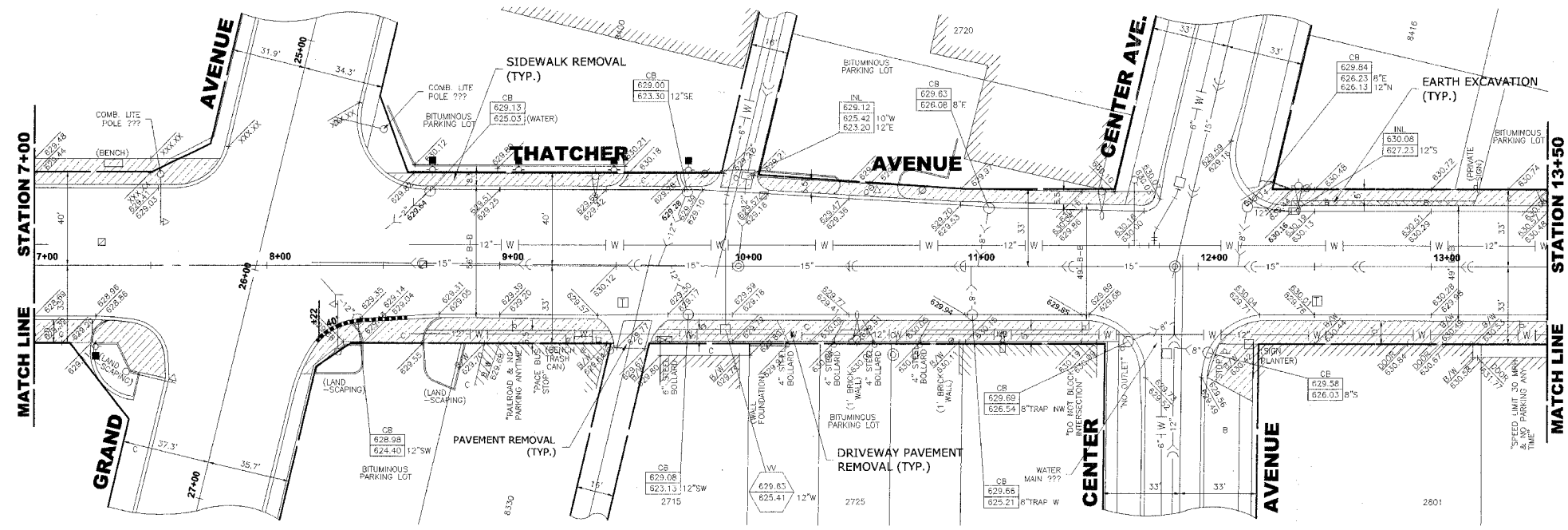
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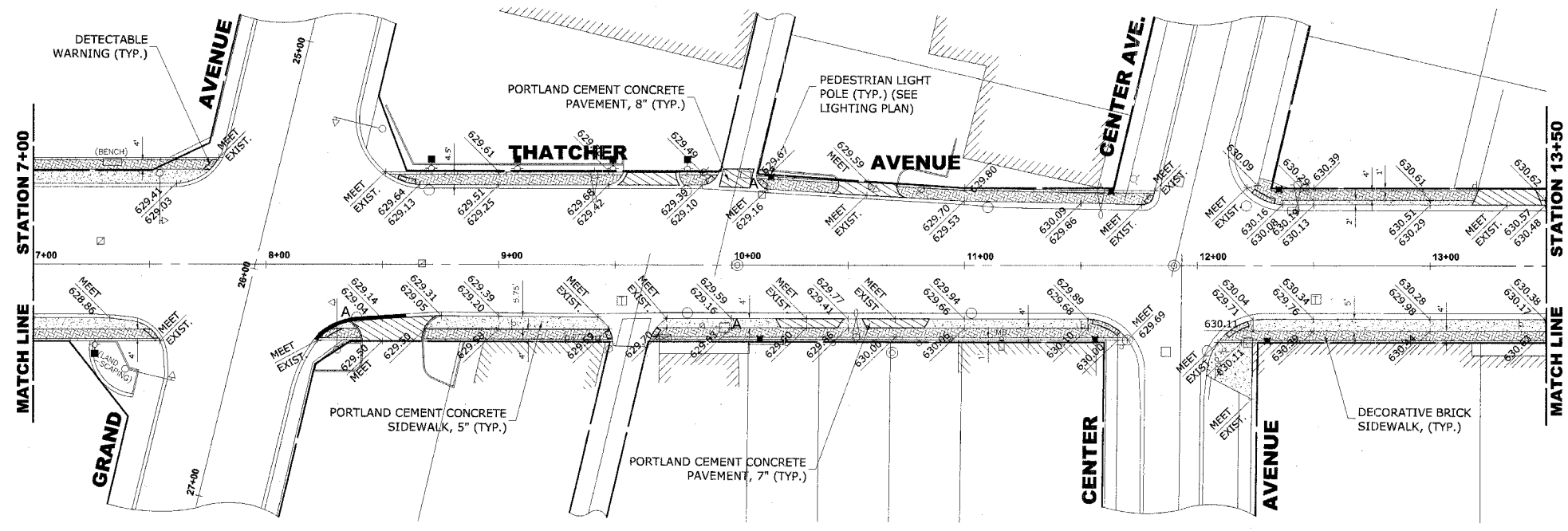
REVISION:

SHEET **13** OF **35**

Drawing file: W:\Projects\76066033 - Grand Ave Streetscape\GRAND-THATCHER\GRAND-THATCHER.dwg Oct 16, 2007 - 2:38pm



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENTS

631		EXISTING CENTERLINE		631
629				629
627				627
625				625
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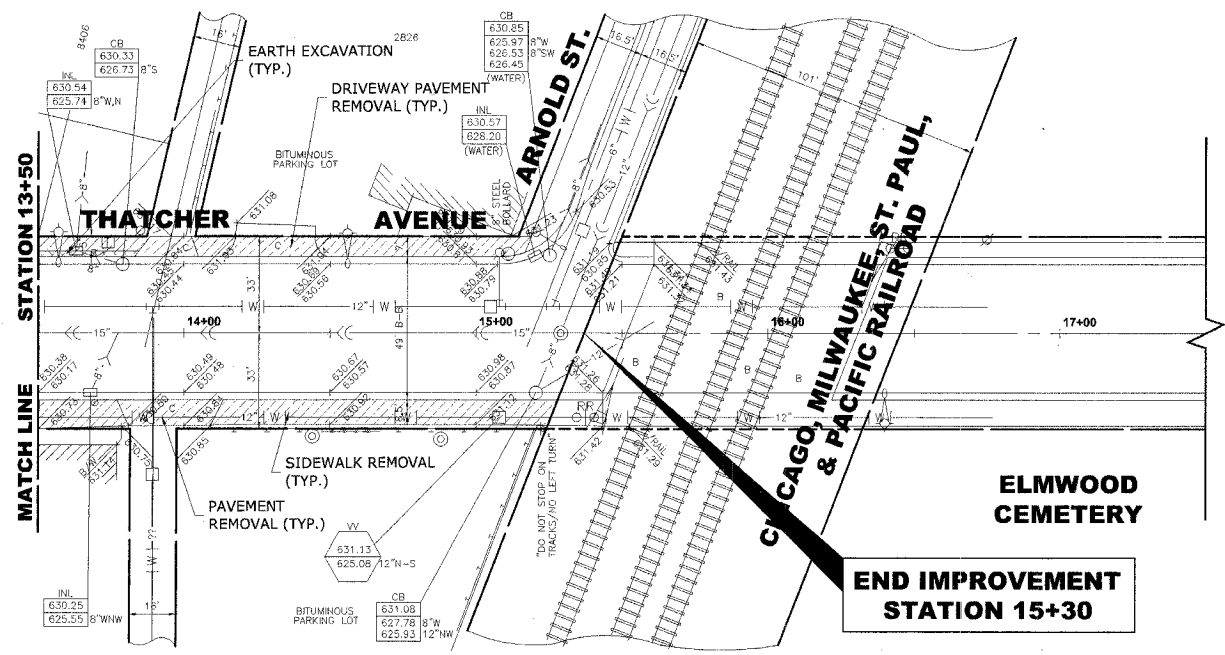
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 ♦ Established 1911

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 Fax: 708/865-1212

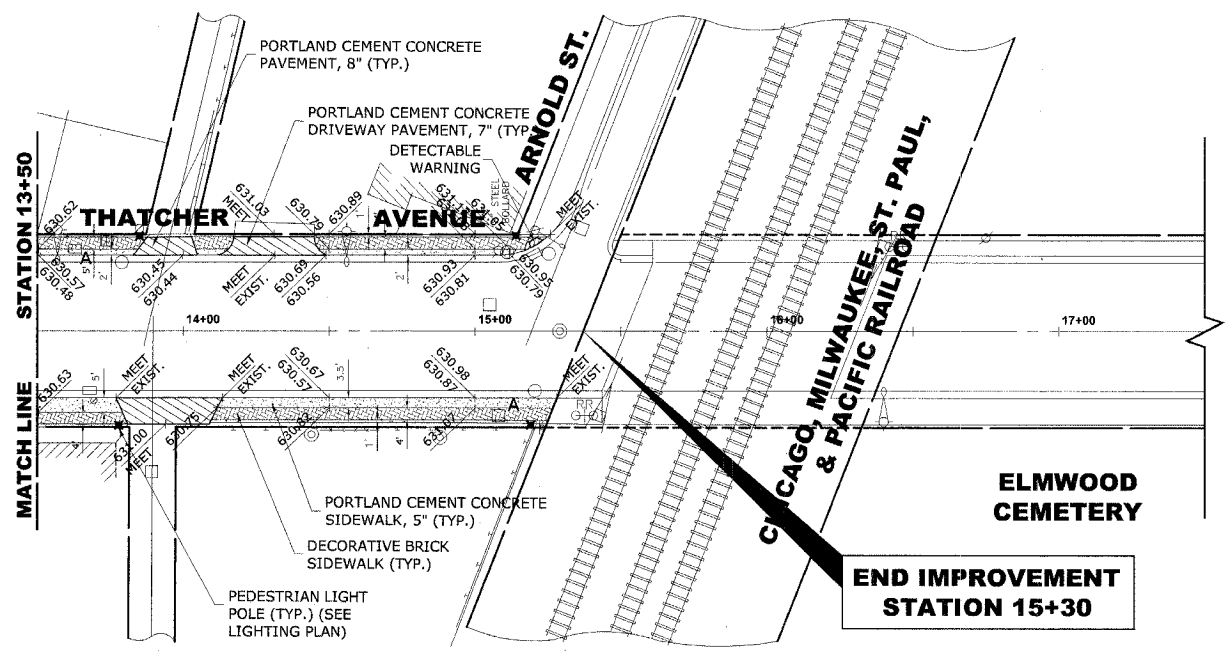
GRAND AVENUE STREETSCAPE PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS

THATCHER AVENUE
STREETSCAPING PLAN AND PROFILE

SCALE:	1"=30'H. & 1"=2'V.	SHEET	14 / 35
DRAWN BY:	LEV/ECW/MK	OF	
BOOK NO.:	1441, 1443, 1516		
DATE:	10-15-07		
REVISION:		E.I.H.E. NO.:	760-06-03320



EXISTING TOPOGRAPHY



PROPOSED IMPROVEMENTS

632	EXISTING CENTERLINE	632
630		630
628		628
626		626
624		624

HANCOCK ENGINEERING

- Civil Engineers
- Municipal Consultants
- Established 1911

9933 Roosevelt Road
Westchester, Illinois 60154-2780
Phone: 708/865-0300
Fax: 708/865-1212

**GRAND AVENUE STREETSCAPE PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS**

**THATCHER AVENUE
STREETSCAPING PLAN AND PROFILE**

SCALE: 1"=30'H. & 1"=2'V.
DRAWN BY: LEV/ECW/IMK
BOOK NO.: 1441,1443,1516
DATE: 10-15-07
E.H.E. NO.: 760-06-03320

REVISION:

SHEET **15** OF **35**

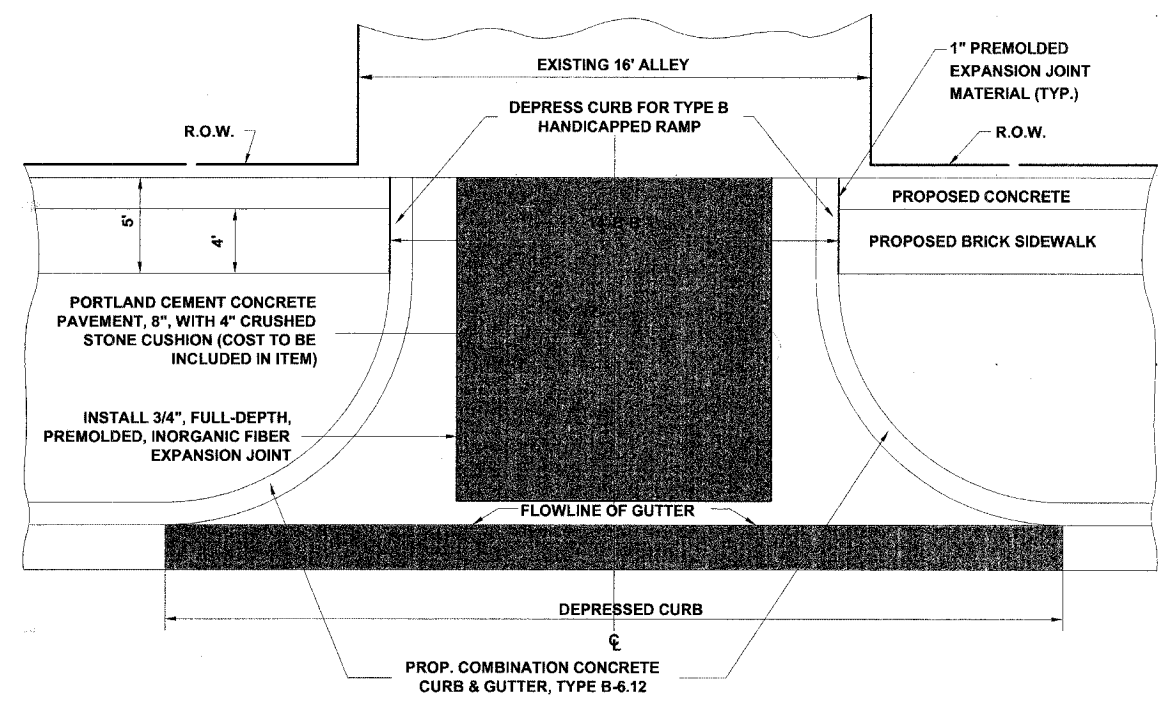
Drawing File: W:\Projects\76060323 - Grand Ave Streetscape\GRAV-THATCHER\GRAV-THATCHER.dwg Oct 16, 2007 - 2:38pm

GENERAL NOTES

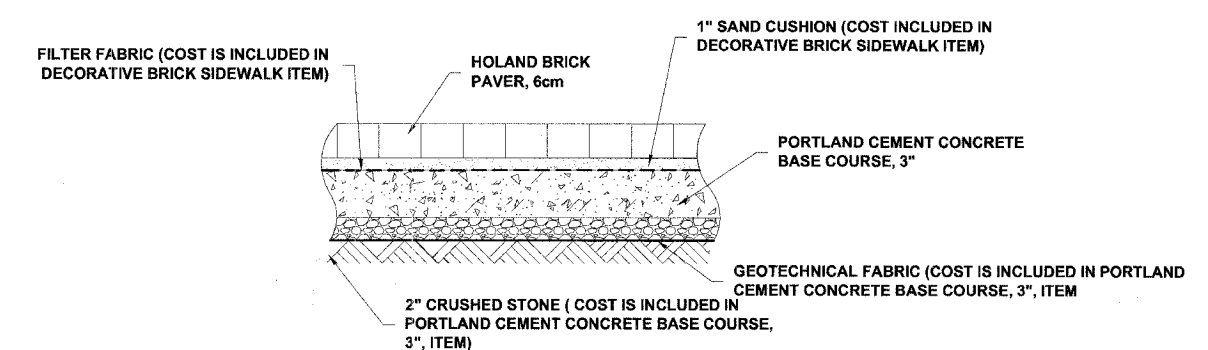
1. THE CONTRACTOR SHALL SAW CUT ALL PCC SIDEWALKS WHERE PARTIAL REMOVAL IS SHOWN (INCIDENTAL).
2. THE CONTRACTOR SHALL SAW CUT ALL BUTT JOINTS TO ADJOINING PAVEMENTS NOT MORE THAN 24 HOURS PRIOR TO PLACING SURFACE COURSE.
3. THE CONTRACTOR SHALL SAW CUT THE PAVEMENT FULL DEPTH SIX INCHES (6") IN FRONT OF ALL CURB & GUTTER TO BE REMOVED PRIOR TO REMOVAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO TAKE PRECAUTIONS SO AS NOT TO DAMAGE PARKWAYS AND CURB OUTSIDE THE PRESCRIBED LIMITS OF RESTORATION. NO PARKWAY OR CURB RESTORATION IS INCLUDED FOR PAYMENT EXCEPT AS NECESSARY FOR STRUCTURE ADJUSTMENTS AND REPLACEMENT, OR AS DIRECTED BY ENGINEER.
5. STOCKPILING OF MATERIALS ON THE PARKWAYS OR CURB WILL NOT BE ALLOWED, INCLUDING EXCAVATED MATERIAL OR TRENCH BACKFILL MATERIAL. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ANY DAMAGE TO THE PARKWAY OR SOD OUTSIDE OF THE PRESCRIBED LIMITS TO THE SATISFACTION OF THE ENGINEER AND THE VILLAGE AT HIS OWN EXPENSE.

CURB AND GUTTER REMOVAL

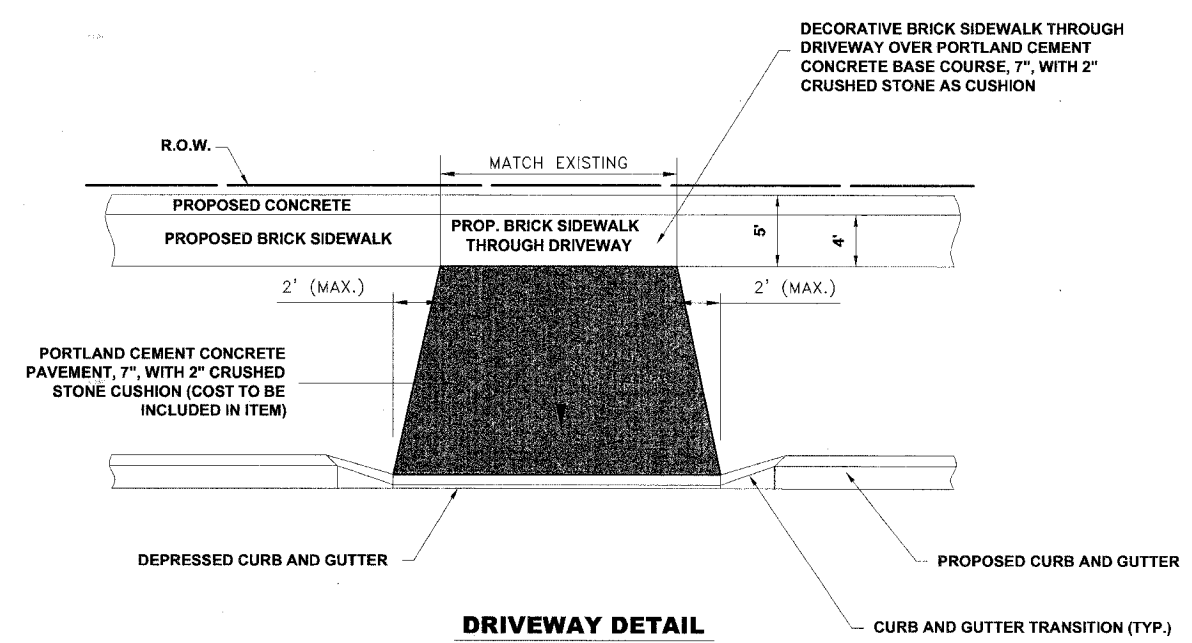
THE COSTS FOR REMOVAL OF ANY ASPHALT OVERLAY THAT EXTENDS INTO THE GUTTER PORTION OF THE CURB AND GUTTER WILL BE INCLUDED IN THE PRICE FOR COMBINATION CURB AND GUTTER REMOVAL.



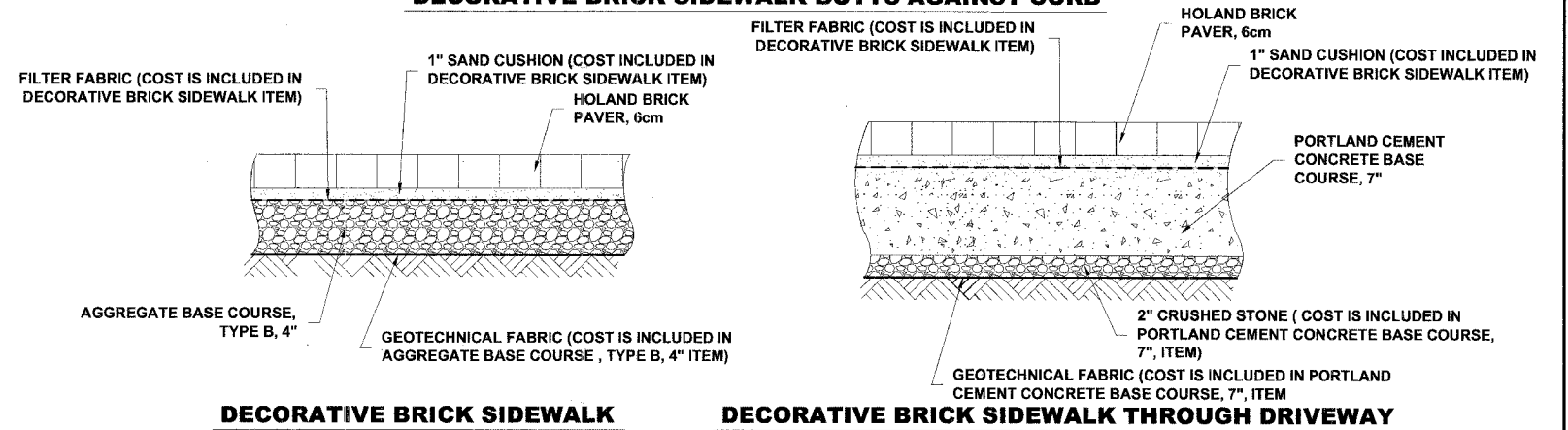
CONCRETE ALLEY RETURN DETAIL



DECORATIVE BRICK SIDEWALK BUTTS AGAINST CURB



DRIVEWAY DETAIL



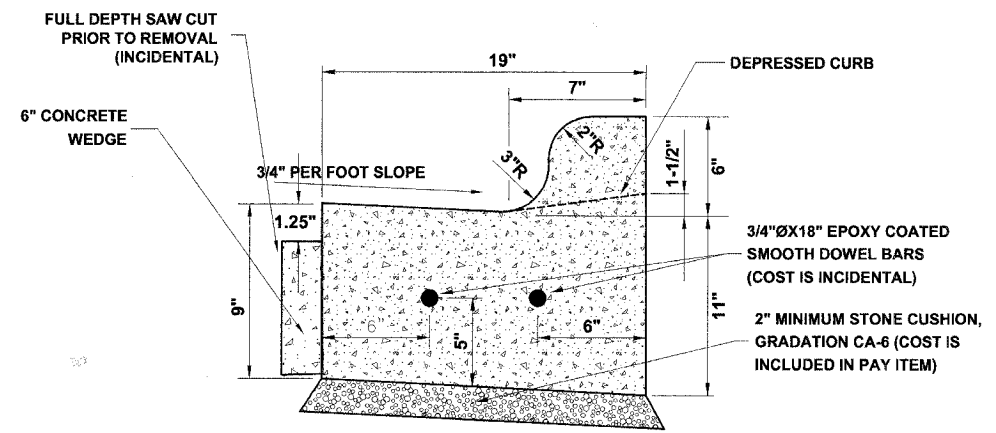
DECORATIVE BRICK SIDEWALK

DECORATIVE BRICK SIDEWALK THROUGH DRIVEWAY

DECORATIVE BRICK SIDEWALK CROSS SECTION

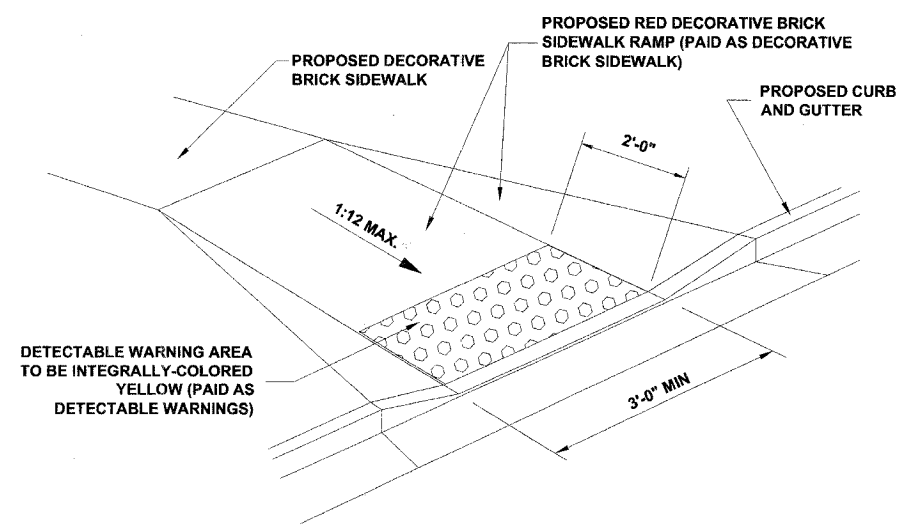
1. THE CONTRACTOR SHALL PROVIDE ALL LABOR/MATERIALS REQUIRED TO EXCAVATE, INSTALL CRUSHED STONE BASE, SAND SETTING BED, EDGE RESTRAINT, AND PAVERS AT LOCATIONS SHOWN ON PLANS AND AS DIRECTED BY ENGINEER
2. PAVERS SHALL MEET THE REQUIREMENTS OF ASTM C-936.
3. BASE COURSE MATERIAL SHALL CONSIST OF PORTLAND CEMENT CONCRETE BASE

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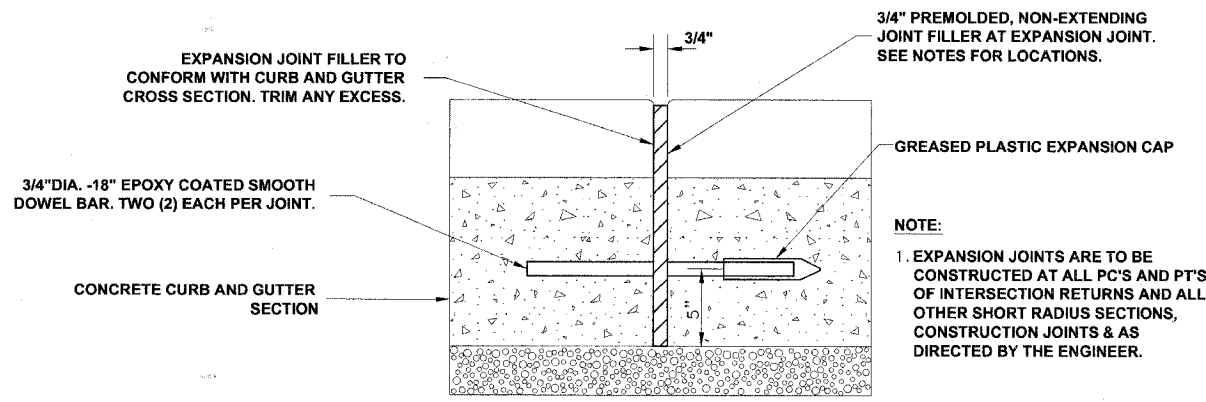


1. PROVIDE 2 3/4"Ø EPOXY COATED SMOOTH BARS WITH PLASTIC EXPANSION CAPS AT EACH EXPANSION JOINT WHICH SHALL BE LOCATED ON EACH SIDE OF EXISTING DRAINAGE STRUCTURES, AT THE PCS AND WHERE DIRECTED BY ENGINEER.
2. CONTRACTION JOINTS SHALL BE PLACED AT EQUAL SPACES (EVERY FIFTEEN FEET) BETWEEN NORMAL EXPANSION JOINTS. CONTRACTION JOINTS SHALL BE SAW CUT IN THE UPPER 1/3 OF CURB AND GUTTERS WITHIN 24 HOURS OF PLACEMENT.
3. 6" CONCRETE WEDGE TO BE POURED IN THE SPACE BETWEEN THE NEW CURB & THE EXISTING PAVEMENT, AFTER THE CURB HAS REACHED ITS INITIAL SET. THE NEW CURB AND GUTTER SHALL BE BACKFILLED FOR THE FULL-DEPTH OF THE CURB WITH CA-7 OR OTHER STONE APPROVED BY ENGINEER.
4. THE NEW CURB AND GUTTER SHALL BE BACKFILLED FOR THE FULL-DEPTH OF THE CURB WITH CA-7 OR OTHER STONE APPROVED BY ENGINEER.
5. THE COST OF THE ABOVE SHALL BE INCLUDED IN THE COMBINATION CONCRETE CURB & GUTTER ITEM.

**COMBINATION CONCRETE CURB & GUTTER
TYPE B-6.12 (MODIFIED)**

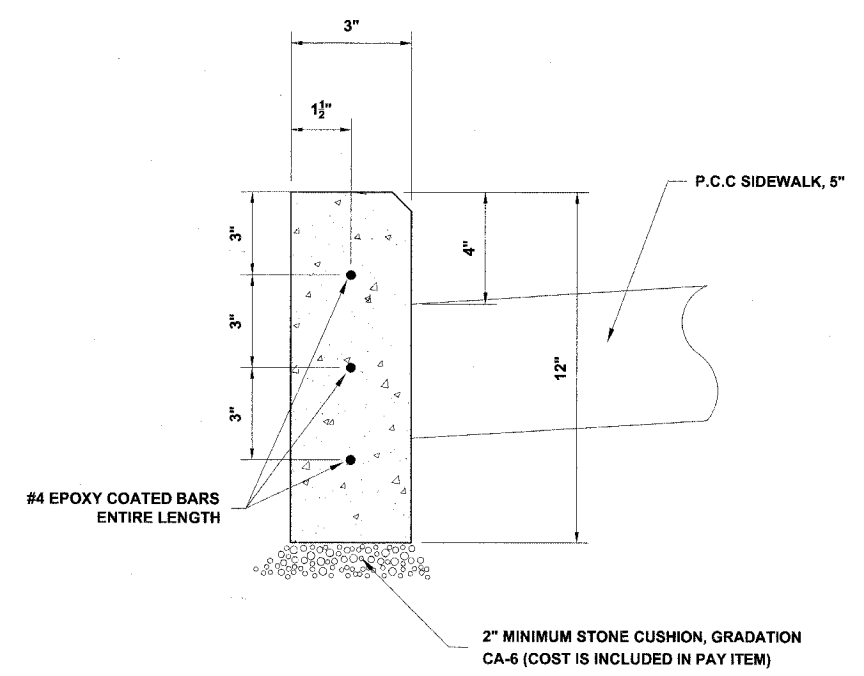


**DECORATIVE BRICK SIDEWALK RAMP
& DETECTABLE WARNING**



NOTE:
1. EXPANSION JOINTS ARE TO BE CONSTRUCTED AT ALL PC'S AND PT'S OF INTERSECTION RETURNS AND ALL OTHER SHORT RADIUS SECTIONS, CONSTRUCTION JOINTS & AS DIRECTED BY THE ENGINEER.

**TYPICAL CURB AND GUTTER
EXPANSION JOINT**



CONCRETE CURB, TYPE B (SPECIAL)

Drawing File: W:\Projects\76006033 - Grand Ave Streetscape\Roadway Details.dwg Oct. 16, 2007 - 2:39pm

M.W.R.D.G.C. GENERAL NOTES

DRAINAGE AND UTILITIES NOTES

- THE MWRDGC LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF WORK AT (708) 588-4055.
- ELEVATION DATUM IS U.S.G.S.
- ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
- ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE INTO THE STORM SEWER SYSTEM.
- ALL PVC STORM, COMBINED, AND SANITARY SEWER PIPE JOINTS SHALL CONFORM TO ASTM D-3139, AND THE PIPE SHALL CONFORM TO ASTM D-2241. ALL PVC SEWER PIPE SHALL BE SDR 26. ALL RCCP SEWER TO MEET ASTM C-76 AND JOINTS SHALL CONFORM TO ASTM C-443.
- ALL SANITARY SEWER CONSTRUCTION, AND ALSO STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS, REQUIRES STONE BEDDING 1/2" TO 1" IN SIZE, WITH A MINIMUM THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR INCHES (4") NOR MORE THAN EIGHT INCHES (8"). MATERIAL SHALL BE CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC PIPE.
- "BAND SEAL" OR SIMILAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPE OF DISSIMILAR MATERIALS.
- WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 - CIRCULAR SAW-CUT OF SEWER MAIN BY MECHANICAL CORING MACHINE, AND PROPER INSTALLATION OF HUB-WYE SADDLE OR HUB-TEE SADDLE, IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
 - REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION. AFTER THE WYE OR TEE BRANCH IS INSERTED, CONCRETE SHALL BE PLACED OVER THE BROKEN AREA TO A MINIMUM THICKNESS OF 4" AND TO A DIMENSION OF 8" IN ALL DIRECTIONS.
 - USING PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING. USE "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE. FOLLOW MANUFACTURER'S RECOMMENDATIONS FOR THE INSTALLATION.
- WHEREVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATER MAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATER MAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/ COMBINED SEWERS AND WATER MAINS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATER MAIN LOCATED AT THE OPPOSITE SIDE ON BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED ABOVE CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS.
- ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
- ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
- ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH A MINIMUM OF TWO (2) FOOT LONG, NON-SHRINK CONCRETE/MORTAR PLUG.
- ALL INLET AND OUTLET PIPES OF SANITARY SEWER MANHOLES AND OTHER UNDERGROUND STRUCTURES (IN COMBINED SEWER AREAS, ALSO INCLUDED ARE ALL COMBINED/STORM SEWER MANHOLES, CATCH BASINS, INLETS, AND UNDERGROUND DETENTION STORAGE STRUCTURES) SHALL BE JOINED WITH WATERTIGHT FLEXIBLE RUBBER CONNECTORS CONFORMING TO ASTM C-443 AND C-923 WITH STAINLESS STEEL BAND.

THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, COMBINED SEWERS, TELEPHONE LINES, COMMUNICATION LINES, ELECTRIC LINES, GAS MAINS, AND WATER SERVICES ARE APPROXIMATE AND THEIR SPECIFIC LOCATIONS ARE TO BE DETERMINED IN THE FIELD AT NO COMPENSATION TO THE CONTRACTOR.

WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINAGE STRUCTURES OR SEWERS UNTIL PERMANENT CONNECTIONS TO SEWERS ARE BUILT AND IN SERVICE. THIS WORK SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

WHEN, DURING CONSTRUCTION OPERATIONS, ANY LOOSE MATERIALS ARE DEPOSITED IN THE FLOW LINES OF GUTTERS OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE OBSTRUCTING MATERIALS SHALL BE REMOVED AT THE CLOSE OF EACH WORK DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES ARE TO BE FREE OF ALL DIRT, DEBRIS, AND OBSTRUCTING MATERIALS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT.

ALL PROPOSED WATER MAINS SHALL BE INSTALLED IN ACCORDANCE WITH IN THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", FIFTH EDITION, DATED 1996, AND ALL REVISIONS THERETO.

THE CONTRACTOR SHALL VERIFY THE TYPE OF ALL WATER MAIN HARDWARE INCLUDING VALVES, FIRE HYDRANTS, VALVE BOXES, CORPORATION STOPS, CURB STOPS, AND WATER SERVICES BOXES WITH THE UTILITY SUPERINTENDENT PRIOR TO ORDERING SUCH MATERIAL.

THE TYPE OF FRAMES AND GRATES REQUIRED FOR ALL CATCH BASINS AND MANHOLES LISTED IN THE SUMMARY OF QUANTITIES MAY BE FOUND ON THE PLANS AT THEIR RESPECTIVE LOCATIONS. WHERE LIDS ARE CALLED FOR ON THE PLANS, THEY SHALL BE IN ACCORDANCE WITH ARTICLE 604.01 OF THE STANDARD SPECIFICATIONS AND THE TERM LID IS USED IN LIEU OF GRATE.

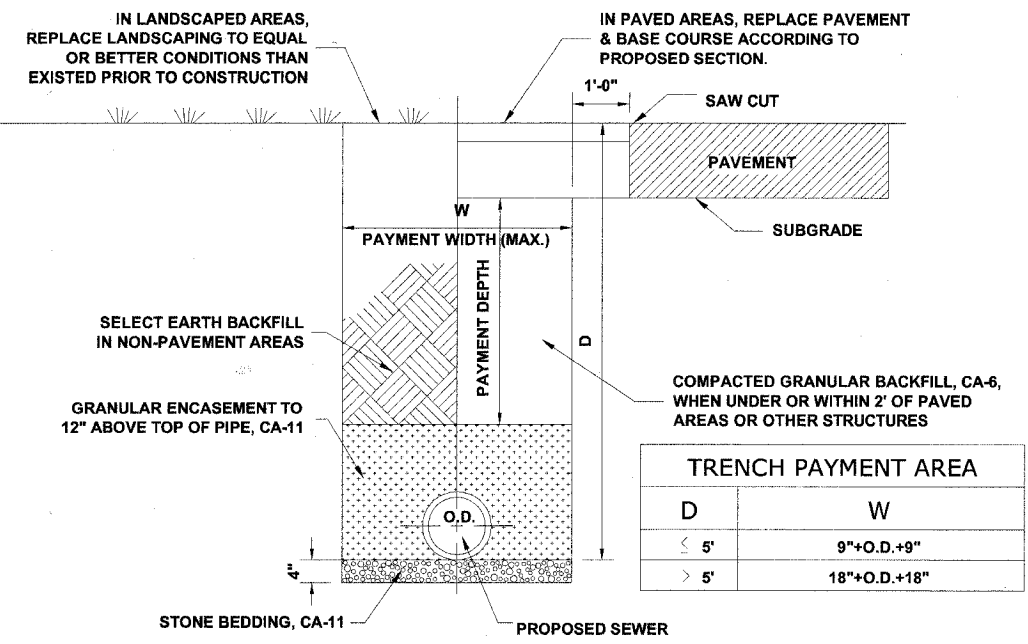
ON ALL IMPROVEMENTS, THE FRAMES AND LIDS OF EXISTING CATCH BASINS, INLETS, MANHOLES, AND VALVE VAULTS WHICH ARE TO BE ABANDONED DUE TO CONSTRUCTION OF THIS IMPROVEMENT ARE TO REMAIN THE PROPERTY OF THE VILLAGE OF RIVER GROVE AND BE SALVAGED. THE CONTRACTOR IS TO DELIVER FRAMES AND LIDS TO THE VILLAGE OF RIVER GROVE PUBLIC WORKS YARD.

ANY COSTS FOR SHEETING OR SHORING REQUIRED FOR THE STORM SEWER INSTALLATION OR OTHER CONSTRUCTION ELEMENTS REQUIRING RELATIVELY DEEP EXCAVATIONS SHALL BE INCLUDED IN THE PARTICULAR PAYMENT ITEM AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR ANY SUPPLEMENTAL WORK ASSOCIATED WITH THE MAINTENANCE OF TRENCH SIDES OR OTHER EXCAVATED AREAS.

UNLESS OTHERWISE SPECIFIED, ABANDONED SEWERS AND DRAINS, AS DESIGNATED BY THE ENGINEER, SHALL BE PLUGGED WITH CLASS "SI" CONCRETE OR BRICK AND SUITABLE MORTAR TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PAY ITEMS FOR REMOVING AND/OR FILLING THE VARIOUS TYPES OF STRUCTURES.

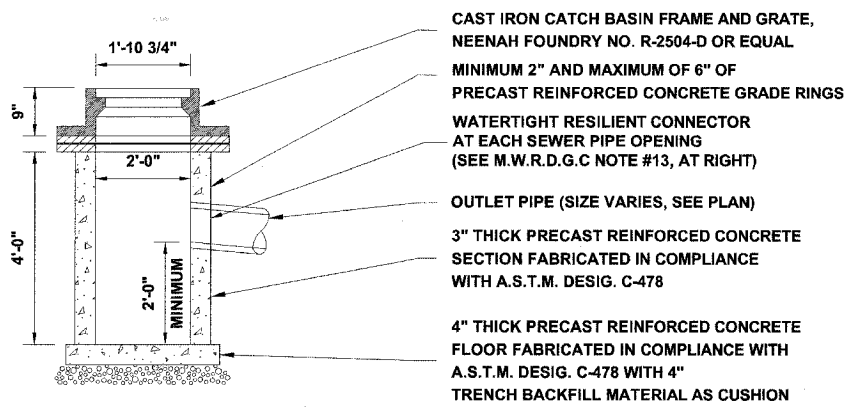
SEWER PIPE INSTALLED ON THIS PROJECT SHALL CONFORM TO THE FOLLOWING STANDARD :

TYPE OF PIPE	MATERIAL STANDARD	JOINT STANDARD
POLYVINYLCHLORIDE PIPE, 12"	ASTM D-2241	ASTM D-3139

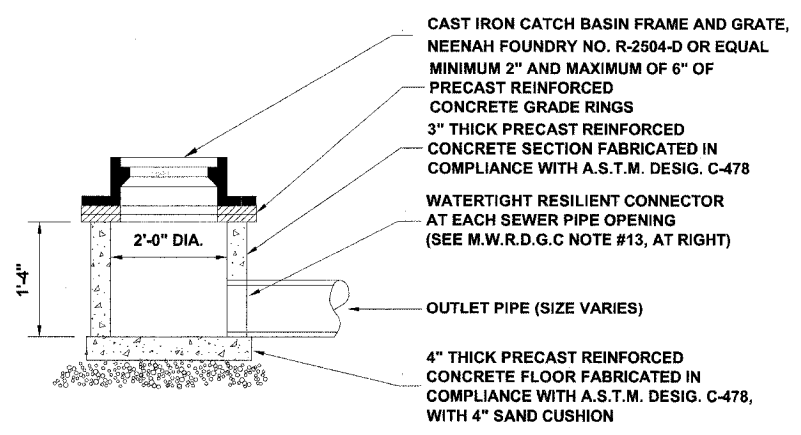


TRENCH PAYMENT AREA	
D	W
≤ 5'	9"+O.D.+9"
> 5'	18"+O.D.+18"

TYPICAL PVC SEWER TRENCH DETAIL

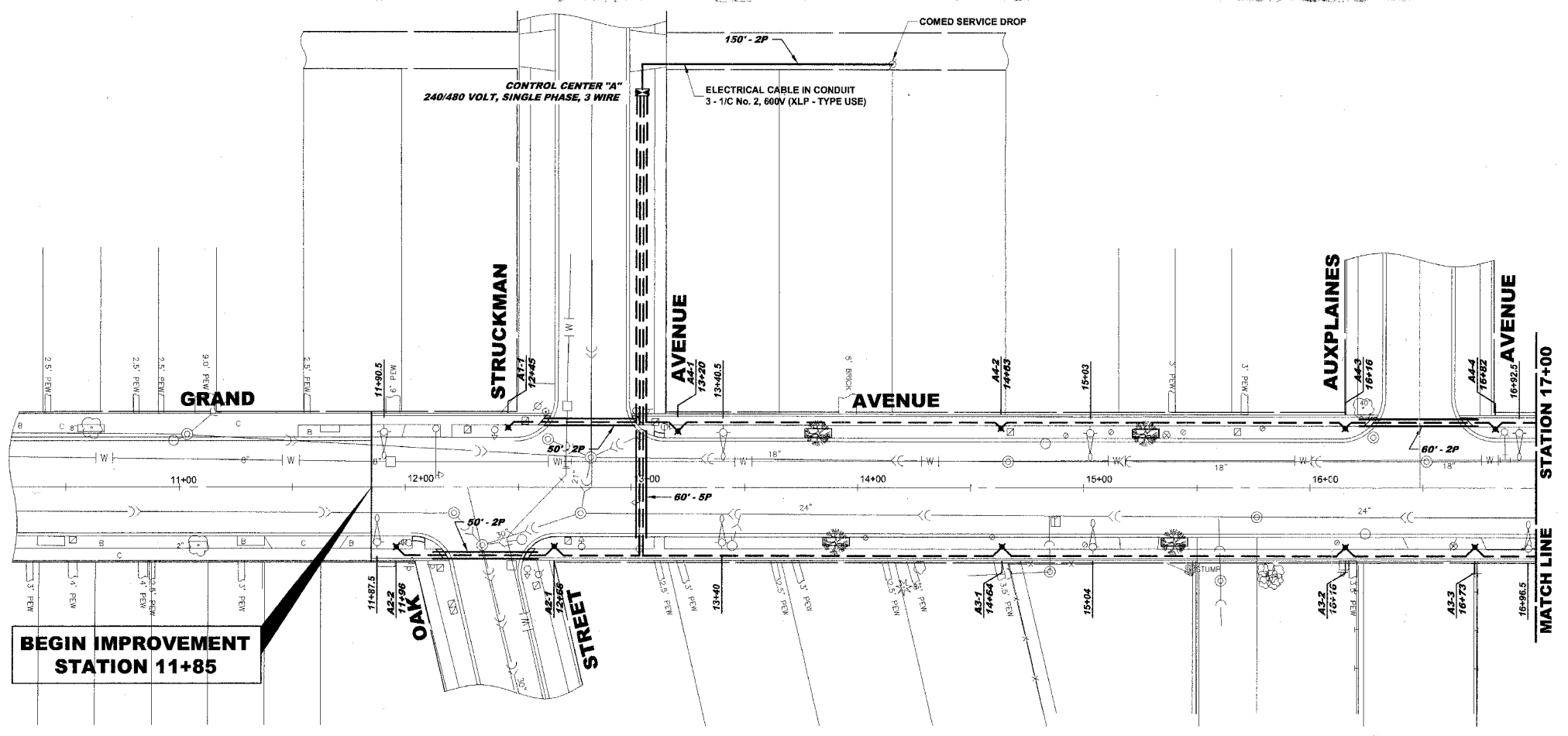


CATCH BASIN, TYPE "C"

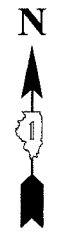
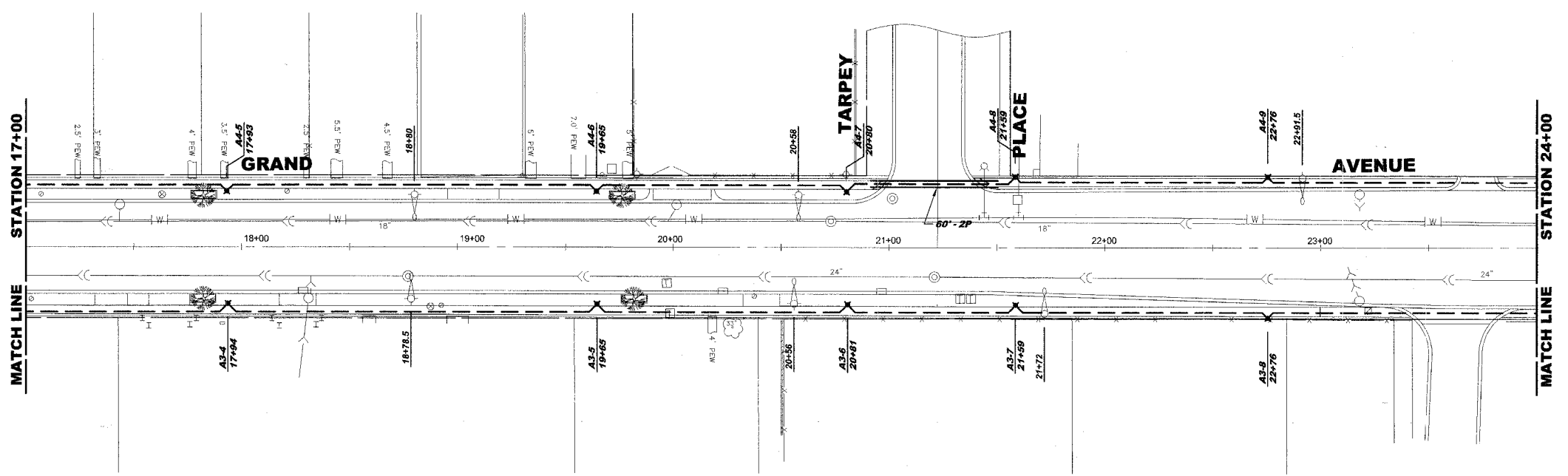


INLET, TYPE "A"

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LEGEND OF SYMBOLS	
	PROPOSED DECORATIVE LIGHT POLE, ALUMINUM, 12' MOUNTING HEIGHT WITH DECORATIVE ACORN STYLE LUMINAIRE, SODIUM VAPOR, TENON MOUNT, 70 WATT
	EXISTING 35' MOUNTING HEIGHT POLE WITH 8' MAST ARM AND 310 WATT HIGH PRESSURE SODIUM LAMP (GE451002.IES)
	EXISTING 35' MOUNTING HEIGHT COMBINATION TRAFFIC/LIGHT POLE WITH 12' MAST ARM AND 400 WATT HIGH PRESSURE SODIUM LAMP (GE451002.IES)
	PROPOSED CONTROL CENTER
	PROPOSED UNIT DUCT WITH 2-1/2" No. 8 & 1-1/2" No. 8 GROUND, 600V (XLP-TYPE USE), 1" DIAMETER OR AS NOTED, BORED & PULLED OR AS NOTED
	PROPOSED RIGID GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED AS NOTED
	CONTROLLER IDENTIFICATION (TYP.)
	CIRCUIT NUMBER (TYP.)
	POLE NUMBER (TYP.)
	STATION NUMBER (TYP.)



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HANCOCK ENGINEERING

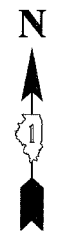
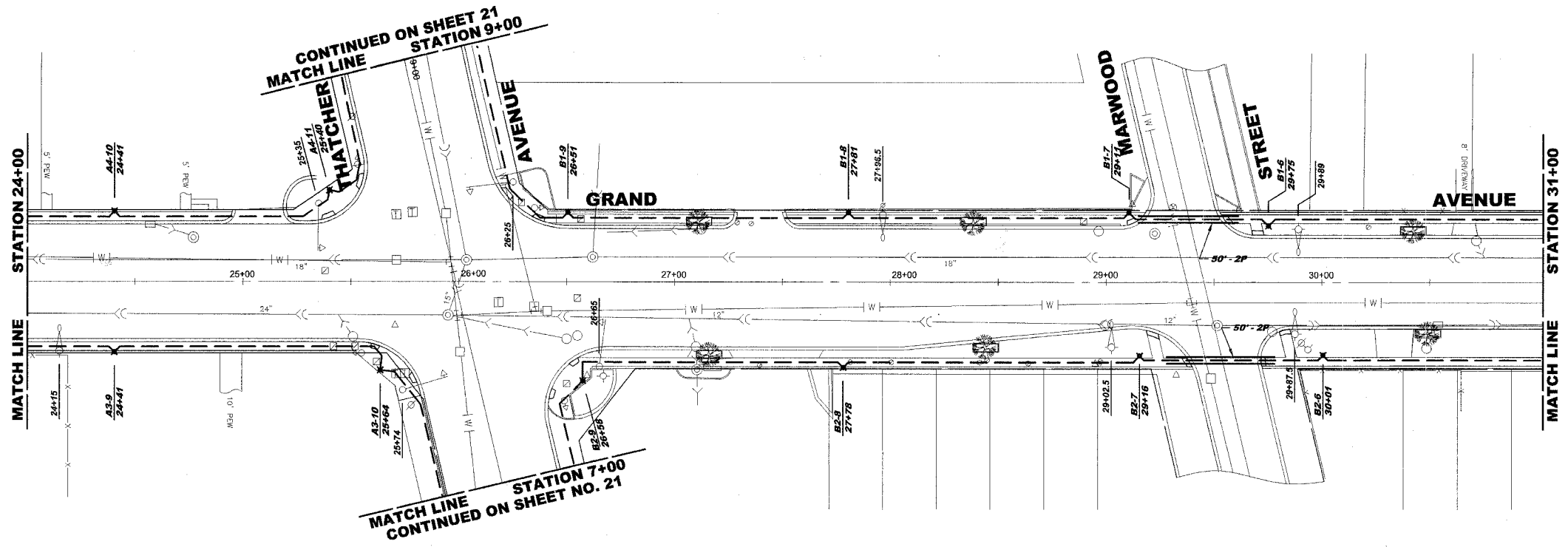
- ◆ Civil Engineers
- ◆ Municipal Consultants
- ◆ Established 1911

9933 Roosevelt Road
Westchester, Illinois 60154-2780
Phone: 708/865-0300
Fax: 708/865-1212

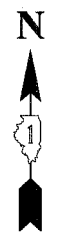
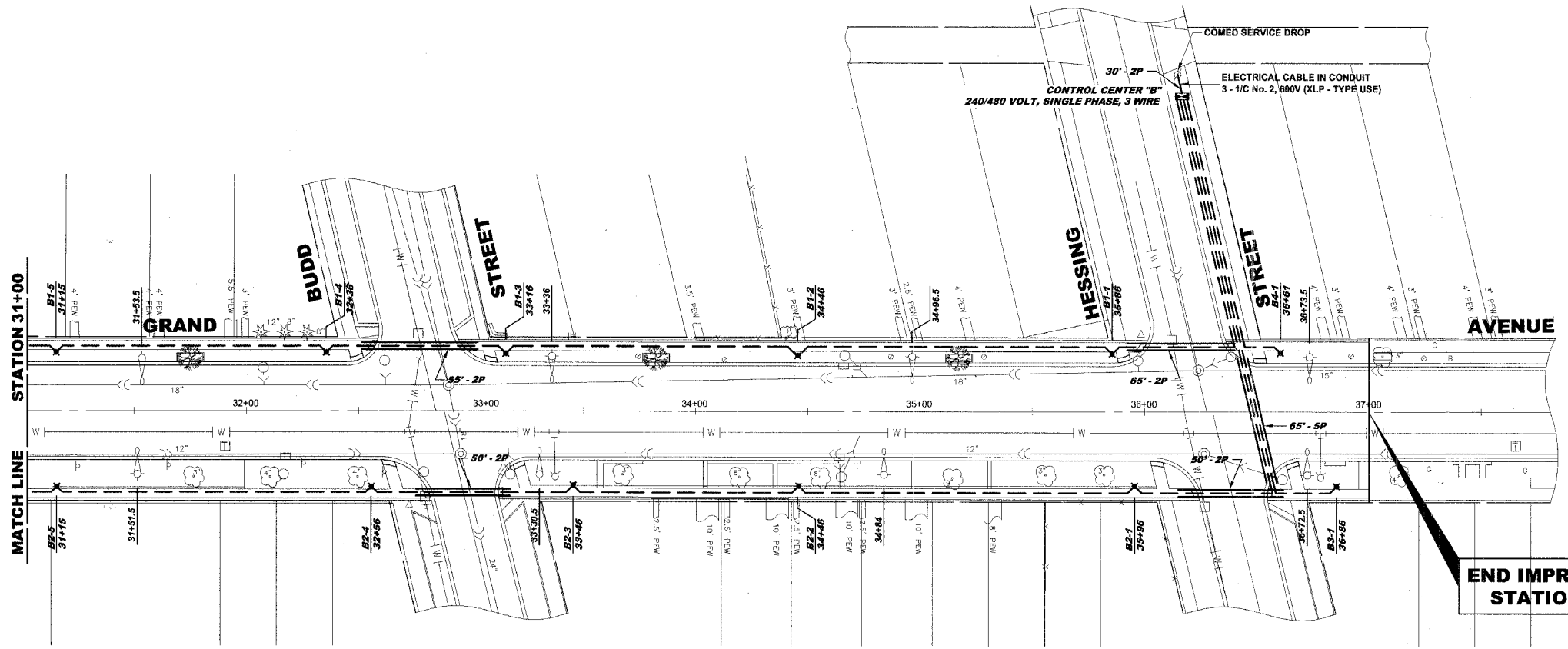
**GRAND AVENUE STREETScape PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS**

GRAND AVENUE LIGHTING PLAN

SCALE: 1"=30'	19 / 35
DRAWN BY: LEV/ECW/MK	
BOOK NO.: 1441,1443,1516	
DATE: 10-15-07	
REVISION:	E.H.E. NO.: 760-06-03320



LEGEND OF SYMBOLS	
	PROPOSED DECORATIVE LIGHT POLE, ALUMINUM, 12' MOUNTING HEIGHT WITH DECORATIVE ACORN STYLE LUMINAIRE, SODIUM VAPOR, TENON MOUNT, 70 WATT
	EXISTING 35' MOUNTING HEIGHT POLE WITH 8' MAST ARM AND 310 WATT HIGH PRESSURE SODIUM LAMP (GE451002.IES)
	EXISTING 35' MOUNTING HEIGHT COMBINATION TRAFFIC/LIGHT POLE WITH 12' MAST ARM AND 400 WATT HIGH PRESSURE SODIUM LAMP (GE451002.IES)
	PROPOSED CONTROL CENTER
	PROPOSED UNIT DUCT WITH 2-1/2" No. 6 & 1-1/2" No. 8 GROUND, 600V (XLP-TYPE USE), 1" DIAMETER OR AS NOTED, BORED & PULLED OR AS NOTED
	PROPOSED RIGID GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED AS NOTED
	CONTROLLER IDENTIFICATION (TYP.)
	CIRCUIT NUMBER (TYP.)
	POLE NUMBER (TYP.)
	STATION NUMBER (TYP.)



**END IMPROVEMENT
STATION 37+00**

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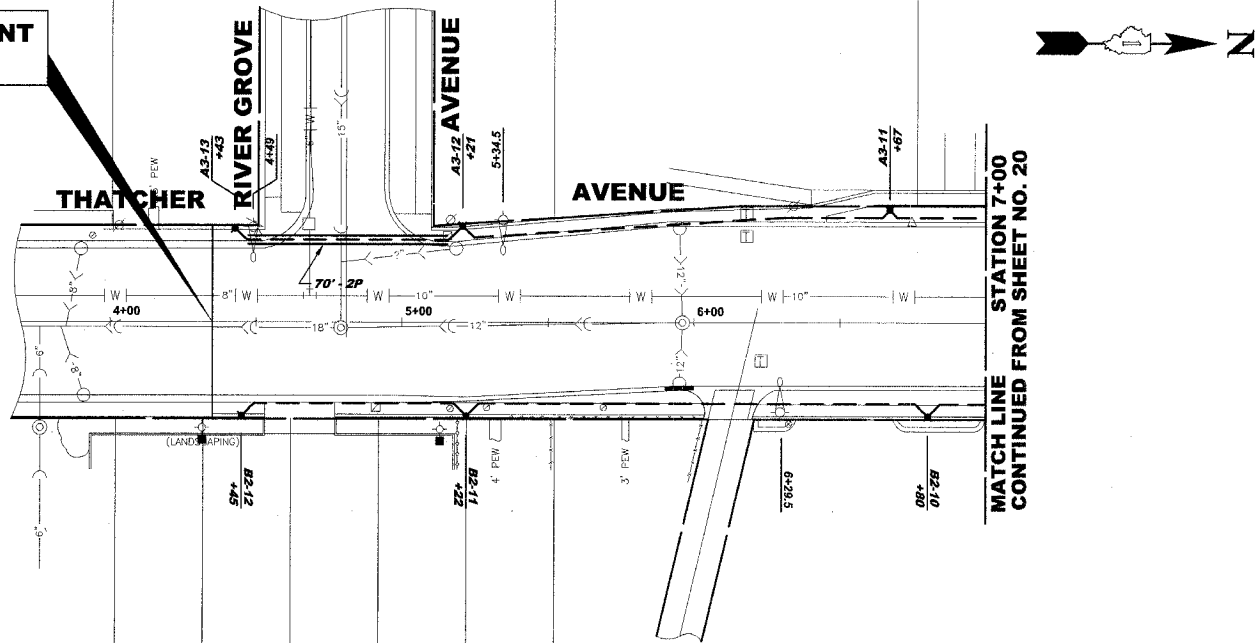
	◆ Civil Engineers	9933 Roosevelt Road
	◆ Municipal Consultants	Westchester, Illinois 60154-2780
	◆ Established 1911	Phone: 708/865-0300
		Fax: 708/865-1212

**GRAND AVENUE STREETSCAPE PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS**

GRAND AVENUE LIGHTING PLAN

SCALE:	1"=30'	SHEET 20 OF 35
DRAWN BY:	LEV/ECW/MK	
BOOK NO.:	1441,1443,1516	
DATE:	10-15-07	
E.H.E. NO.:	760-06-03320	

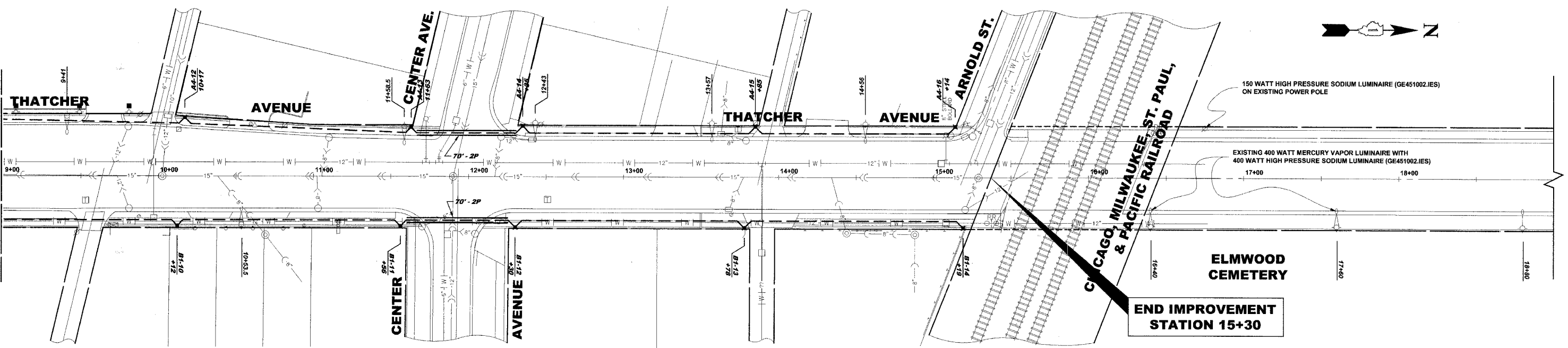
**BEGIN IMPROVEMENT
STATION 4+35**



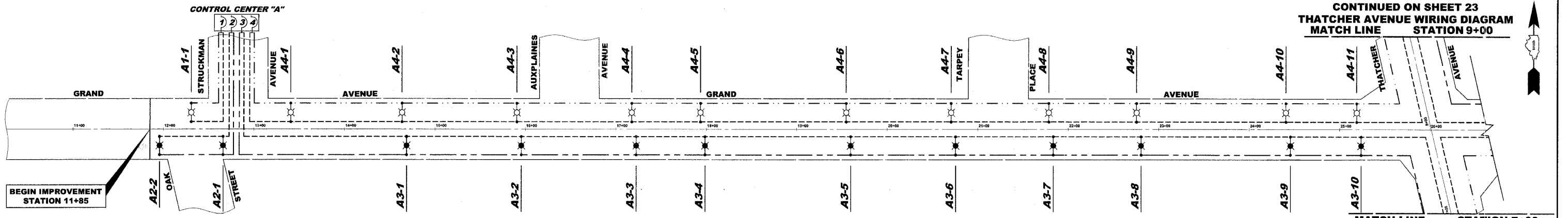
**MATCH LINE
STATION 7+00
CONTINUED FROM SHEET NO. 20**

LEGEND OF SYMBOLS	
	PROPOSED DECORATIVE LIGHT POLE, ALUMINUM, 12' MOUNTING HEIGHT WITH DECORATIVE ACORN STYLE LUMINAIRE, SODIUM VAPOR, TENON MOUNT, 70 WATT
	EXISTING 35' MOUNTING HEIGHT POLE WITH 8' MAST ARM AND 400 WATT HIGH PRESSURE SODIUM LAMP (GE451002.IES)
	EXISTING 35' MOUNTING HEIGHT POLE WITH 8' MAST ARM AND 400 WATT MERCURY VAPOR LAMP
	PROPOSED CONTROL CENTER
	PROPOSED UNIT DUCT WITH 2-1/2" No. 6 & 1-1/2" No. 8 GROUND, 600V (KLP-TYPE USE), 1" DIAMETER OR AS NOTED, BORED & PULLED OR AS NOTED
	PROPOSED RIGID GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED AS NOTED
	CONTROLLER IDENTIFICATION (TYP.)
	CIRCUIT NUMBER (TYP.)
	POLE NUMBER (TYP.)
	STATION NUMBER (TYP.)

**CONTINUED FROM SHEET 20
MATCH LINE
STATION 11+00**



**END IMPROVEMENT
STATION 15+30**



CONTINUED ON SHEET 23
THATCHER AVENUE WIRING DIAGRAM
MATCH LINE STATION 9+00

MATCH LINE STATION 7+00
CONTINUED ON SHEET NO. 23
THATCHER AVENUE WIRING DIAGRAM

BEGIN IMPROVEMENT
STATION 11+85

CIRCUIT	PHASE - BLACK		CIRCUIT	PHASE - RED	
	AMPS	WATTS		AMPS	WATTS
1*	12.65	2,750	2*	13.80	3,000
4	18.40	4,000	3	14.95	3,250
TOTAL	31.05		TOTAL	28.75	

* CIRCUIT TO BE COMPLETED AT A LATER DATE.

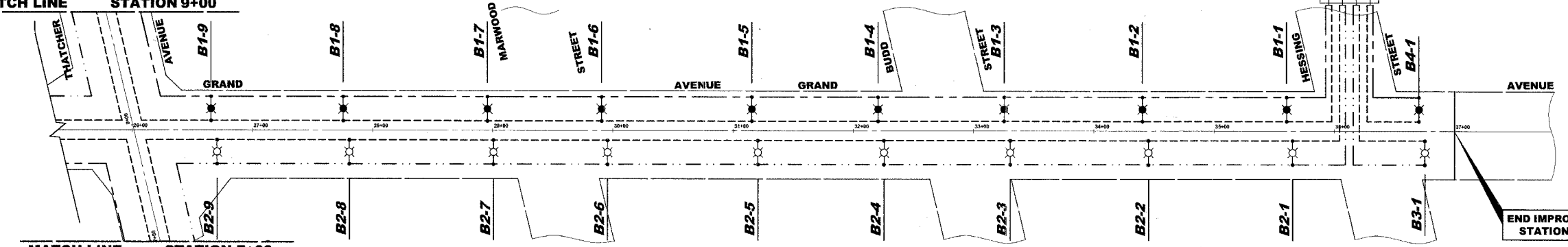
- NOTE:**
- ALL PROPOSED PEDESTRIAN LUMINAIRES TO BE MEDIUM CUT-OFF, TYPE V, 70 WATT HPS.
 - ALL PROPOSED PEDESTRIAN BALLASTS TO BE UL LISTED 240 VOLT, HIGH POWER FACTOR, MAGNETIC REGULATOR (LAG-TYPE). OPERATING AMPS = 0.40.

CIRCUIT	PHASE - BLACK		CIRCUIT	PHASE - RED	
	AMPS	WATTS		AMPS	WATTS
1	16.10	3,500	2	13.8	3,000
4*	17.25	3,750	3*	12.25	3,750
TOTAL	33.35		TOTAL	26.05	

* CIRCUIT TO BE COMPLETED AT A LATER DATE.

	240 VOLT PHASE CABLE (BLACK)
	240 VOLT PHASE CABLE (RED)
	240 VOLT NEUTRAL CABLE (WHITE)
	SPLICE
	PROPOSED 70 WATT HPS PEDESTRIAN LUMINAIRE (240 VOLT) ON BLACK WIRE
	PROPOSED 70 WATT HPS PEDESTRIAN LUMINAIRE (240 VOLT) ON RED WIRE
A1-1	PROPOSED CIRCUIT/POLE NUMBER

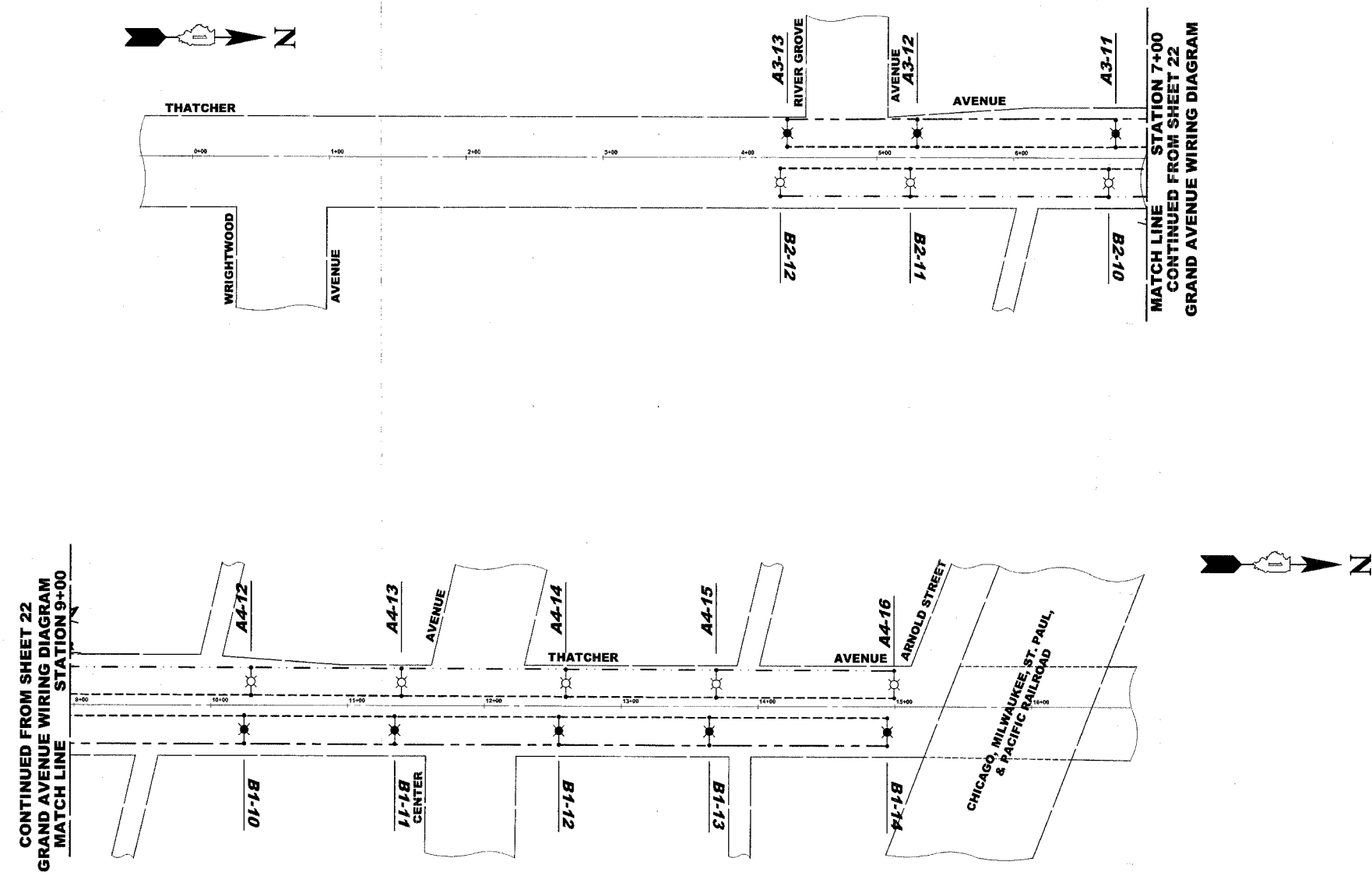
CONTINUED ON SHEET 23
THATCHER AVENUE WIRING DIAGRAM
MATCH LINE STATION 9+00



MATCH LINE STATION 7+00
CONTINUED ON SHEET NO. 23
THATCHER AVENUE WIRING DIAGRAM

END IMPROVEMENT
STATION 37+00

Drawing file: W:\Projects\76060320 - Grand Ave Streetscape\0500 AW-Lighting.dwg Oct 15, 2007 - 2:29pm



LEGEND OF SYMBOLS	
---	240 VOLT PHASE CABLE (BLACK)
---	240 VOLT PHASE CABLE (RED)
---	240 VOLT NEUTRAL CABLE (WHITE)
-●-	SPLICE
⊗	PROPOSED 70 WATT HPS PEDESTRIAN LUMINAIRE (240 VOLT) ON BLACK WIRE
⊙	PROPOSED 70 WATT HPS PEDESTRIAN LUMINAIRE (240 VOLT) ON RED WIRE
A1-1	PROPOSED CIRCUIT/POLE NUMBER

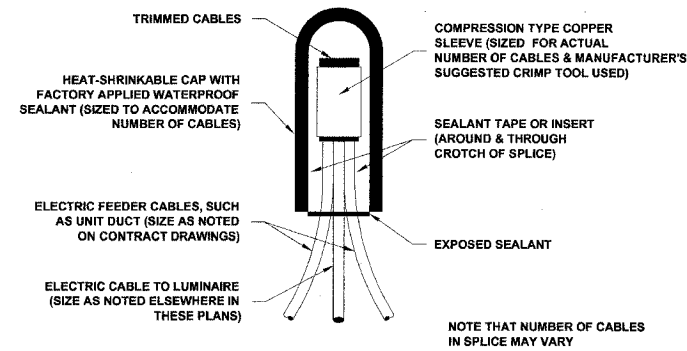
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	◆ Civil Engineers	9933 Roosevelt Road
	◆ Municipal Consultants	Westchester, Illinois 60154-2780
	◆ Established 1911	Phone: 708/865-0300
		Fax: 708/865-1212

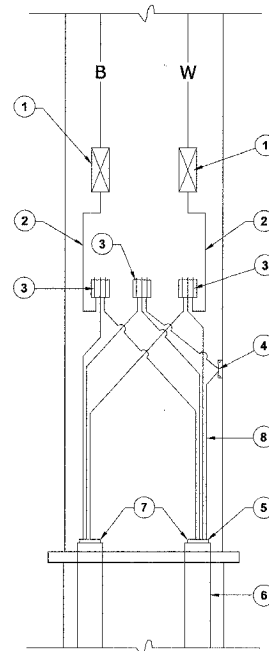
**GRAND AVENUE STREETSCAPE PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS**

**THATCHER AVENUE WIRING DIAGRAM
CONTROL CENTER "A" & "B"**

SCALE:	1"=50'	SHEET	23
DRAWN BY:	LEV/ECW/MK	OF	35
BOOK NO.:	1441,1443,1516		
DATE:	10-15-07		
REVISION:	E.H.E. NO.: 760-06-03320		

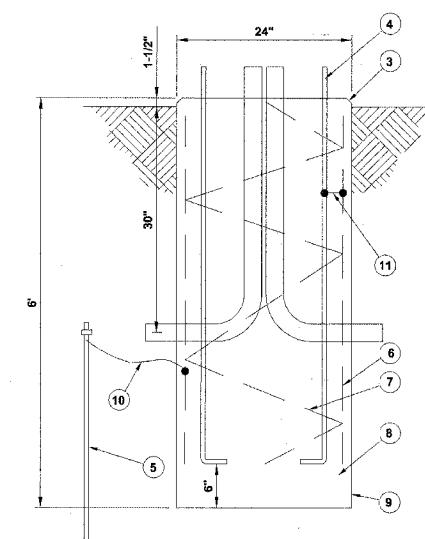
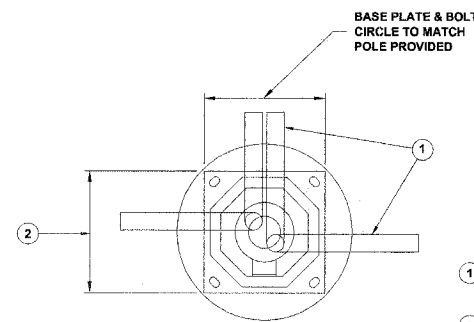


**SPLICING ELECTRIC CABLES
BASIC MATERIALS AND METHODS**



- 1 2 POLE QUICK DISCONNECT CONNECTOR KIT METHOD A WITH 10 AMP FUSEHOLDER AND INSULATING BOOT CONFORMING TO NEC 404.28, WITH 5 AMP SMALL AM CYLL. FUSE
- 2 No. 10 AWG WIRE
- 3 SPLICE AS SPECIFIED
- 4 GROUND LUG, UL LISTED
- 5 UNIT DUCT
- 6 3" P.V.C. CONDUIT RACEWAYS
- 7 ENDS OF THE UNIT DUCT SHALL BE SEALED AGAINST THE ENTRANCE OF WATER
- 8 No. 2 GROUND WIRE TO GROUND ROD

POLE HANDHOLE WIRING DIAGRAM

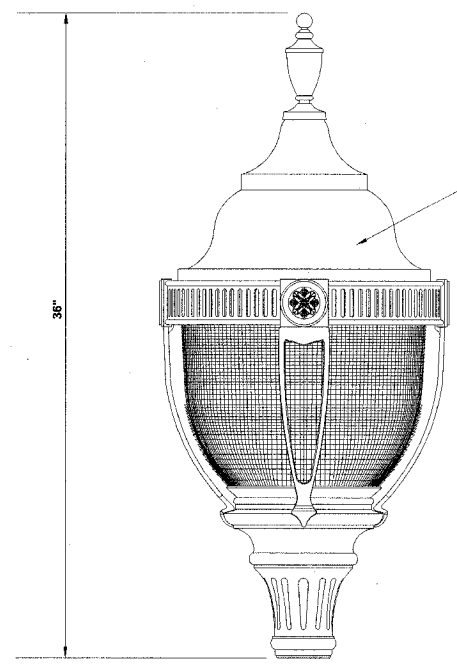


- 1 DUAL 3" DIA. P.V.C. ELBOW RACEWAYS. EITHER PARALLEL OR OPPOSITE EACH OTHER AS SHOWN ON PLAN SHEETS.
- 2 MANUFACTURER TO FURNISH TEMPLATE DRAWING FOR SETTING OF ANCHOR BOLTS.
- 3 1" CHAMFER
- 4 4-1" x 36" STEEL ANCHOR BOLTS, TOP 10" THREADED AND GALVANIZED.
- 5 5/8" x 10' GROUND ROD CONNECTED TO GROUND WIRE WITH EXOTHERMIC WELD AT ALL POLE LOCATIONS.
- 6 8-#5 REINFORCING BARS EQUALLY SPACED AROUND AN 18" DIA. CIRCLE
- 7 #4 SPIRAL TIE BARS WITH 6" PITCH
- 8 CLASS SI CONCRETE
- 9 FOUNDATION LOCATIONS AS SHOWN ON PLAN SHEETS.
- 10 No. 2 BARE GROUND WIRE TO GROUND ROD AND REINFORCING BARS WITH EXOTHERMIC WELD.
- 11 No. 10 GROUND WIRE TO GROUND ROD WITH EXOTHERMIC WELD.

CONCRETE LIGHT POLE FOUNDATION

Drawing file: W:\Projects\76008033 - Grand Ave Streetscape Lighting Details.dwg Oct 16, 2007 - 2:27pm

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 1376	**	COOK	35	25
ILLINOIS PROJECT		TE-00D1(754)		
VILLAGE SECTION		06-00087-00-SW		
CONTRACT NO. 83926				

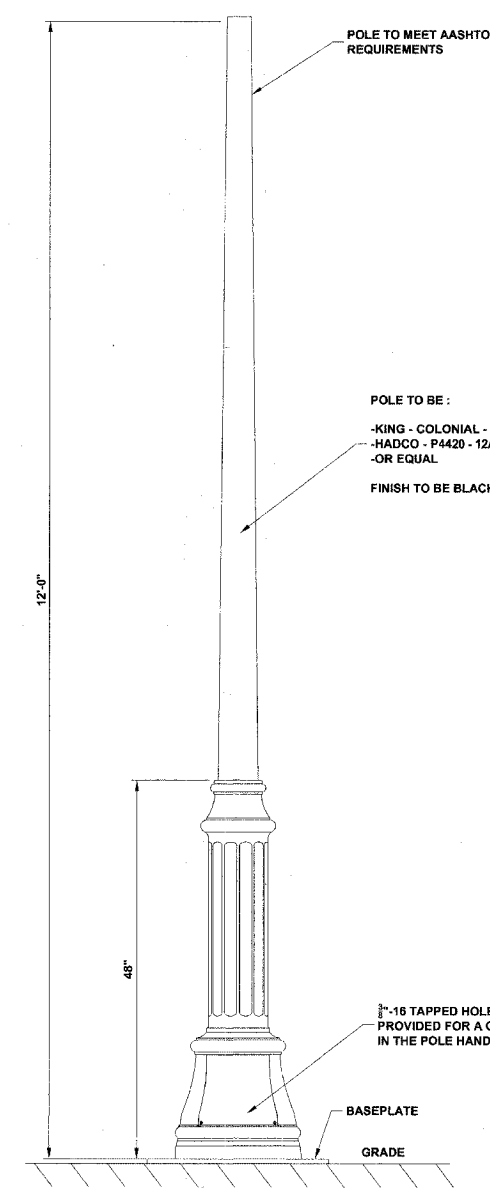


LUMINAIRE TO BE :

- KING - K 118 EAR V 70 MOG 240 K16 BK WITH SOLID BLACK COVER AND WITH 15 AMP, 240V GPCI WITH NEMA 6-15R RECEPTACLE
- HADCO - RS4 C A N E 2 N NG 70S-G WITH SOLID BLACK COVER AND WITH 15 AMP, 240V GPCI WITH NEMA 6-15R RECEPTACLE
- OR EQUAL

FINISH TO BE BLACK POWDER COAT

**DECORATIVE ACORN STYLE LUMINAIRE,
SODIUM VAPOR, TENON MOUNT, 70 WATT**



POLE TO MEET AASHTO REQUIREMENTS

POLE TO BE :

- KING - COLONIAL - KM22RE-12
- HADCO - P4420 - 12A
- OR EQUAL

FINISH TO BE BLACK POWDER COAT

1/8" TAPPED HOLE SHALL BE PROVIDED FOR A GROUND LUG IN THE POLE HANDHOLE

BASEPLATE
GRADE

**DECORATIVE LIGHT POLE, ALUMINUM,
12' MOUNTING HEIGHT**

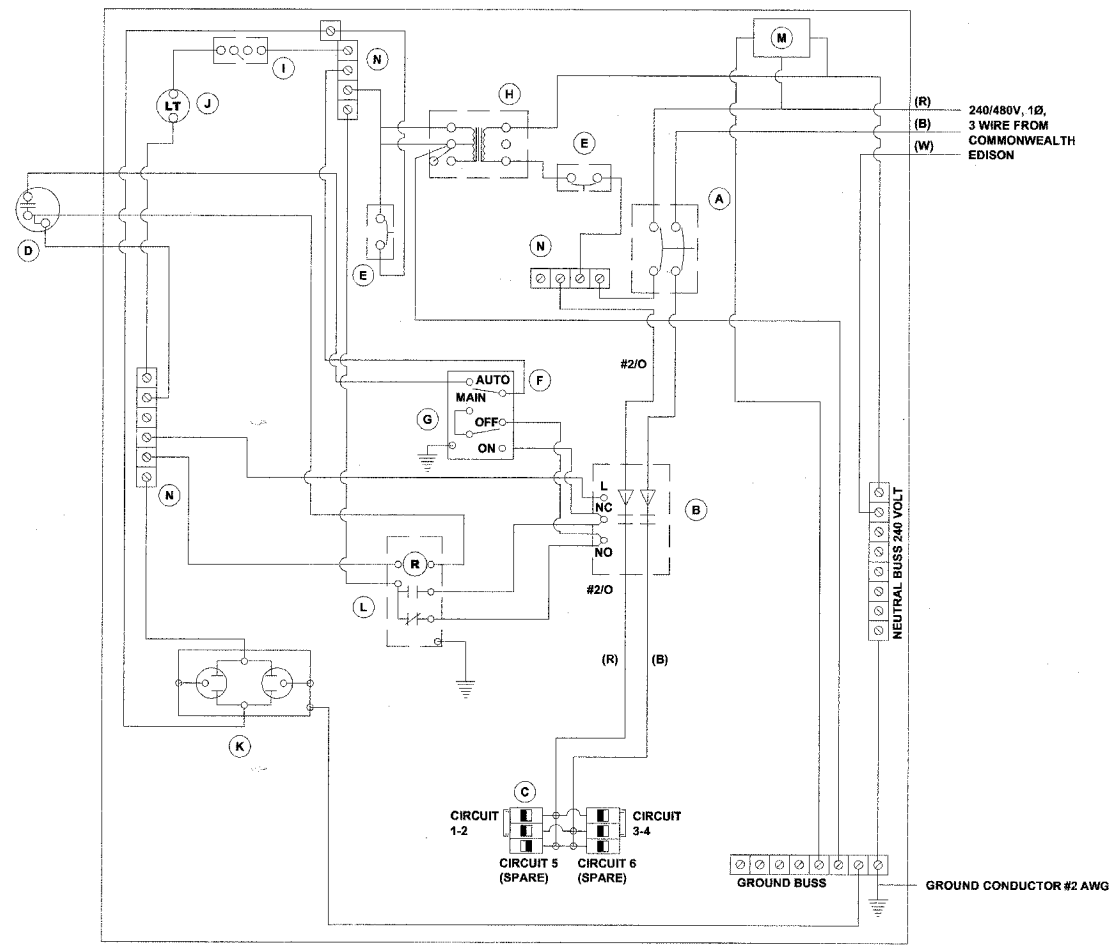
Drawing file: W:\Projects\76006033 - Grand Ave Streetscape\Lighting_Details.dwg Oct 16, 2007 - 2:24pm

	◆ Civil Engineers	9933 Roosevelt Road
	◆ Municipal Consultants	Westchester, Illinois 60154-2780
	◆ Established 1911	Phone: 708/865-0300
		Fax: 708/865-1212

**GRAND AVENUE STREETScape PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS**

LIGHTING DETAILS

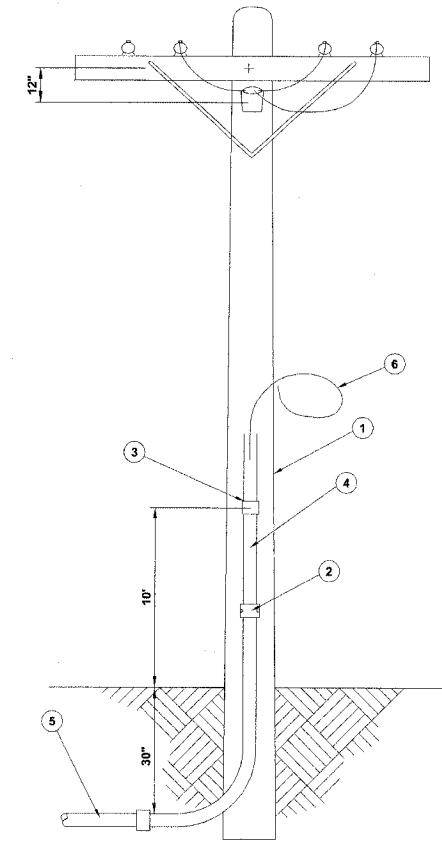
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DRAWN BY:	LEV/ECW/MK	
BOOK NO.:	1441,1443,1516	
DATE:	10-15-07	
REVISION:	E.H.E. NO.: 760-06-03320	



240/480 VOLT CONTROLLER PANEL WIRING DIAGRAM

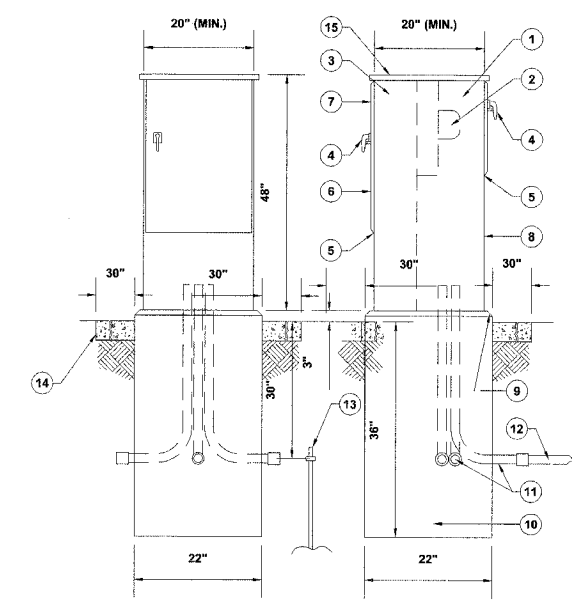
DEVICE SCHEDULE		
QUANTITY		DESCRIPTION
(A)	1	100 AMP CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, SINGLE THROW, 600V FRAME, NON-INTERCHANGABLE TRIP, BOLT ON TYPE.
(B)	1	100 AMP, ELECTRICALLY OPERATED AND MECHANICALLY HELD LIGHTING CONTRACTOR, 2-POLE, 600 VOLT WITH 120 V COIL.
(C)	6	240/480 VOLT 1 PHASE PANEL BOARD WITH 100 AMP COPPER MAINS SINGLE POLE, 30 AMP, 277 VOLT BOLT ON BRANCH CIRCUIT BREAKERS (2 SPARES)
(D)	1	PHOTO-ELECTRIC CELL, 120 VOLT, MOUNT ON CLOSEST POLE TO CABINET
(E)	2	THERMAL MAGNETIC, MOLDED CASE CIRCUIT BREAKER, 1 POLE, 15 AMP, 277 VOLT BOLT ON TYPE
(F)	1	CONTROL SWITCH, MOMENTARY CONTACT, SPDT, 15 AMP, 240 VOLT
(G)	1	CONTROL SWITCH, TOGGLE TYPE, SPDT, 20 AMP, 240 VOLT SPECIAL GRADE
(H)	1	240/120 VOLT STEP DOWN CONTROL TRANSFORMER 750 VA RATED
(I)	1	MICRO SWITCH (MOUNTED WITH ACTUATOR TO SWITCH WHEN DOOR IS OPEN) 120 VOLT, 20 AMP
(J)	1	60 WATT LIGHT FIXTURE VAPOR TIGHT WITH GLOBE, GUARD, AND MOUNTING BOX
(K)	1	120 VOLT, 15 AMP RECEPTACLE, SPECIFICATION GRADE IN NEMA 5-15R WEATHER PROOF BOX WITH FLAP-TYPE COVER. OUTLET TO BE GFI-TYPE.
(L)	1	POWER RELAY WITH 25 AMP CONTACTS RATED FOR CONTRACTOR INRUSH CURRENT - 120 VOLT COIL
(M)	1	SURGE ARRESTOR, 5 WIRE EDCO "4803 OR EQUAL
(N)	3	TERMINAL BLOCK, 240 VOLT, 50 AMP MAXIMUM WITH NUMBER OF TERMINALS AS INDICATED

- NOTES:**
- ALL CIRCUIT BREAKERS SHALL HAVE AN INTERRUPT RATING OF 10,000 AMPS
 - UL LISTED DEVICES/COMPONENTS SHALL BE USED
 - NO SPLICES OF WIRES IN CABINET
 - CONTROL WIRE TO BE #12 MTW
 - POWER WIRE SHALL BE RATED RHH/RHW 600 VOLTS OF SIZE INDICATED
 - LIGHTING CONTROLLER SHALL BE SERVICE ENTRANCE RATED



- COMMONWEALTH EDISON COMPANY UTILITY POLE
- CONDUIT CLAMPS AT 5' MINIMUM INTERVALS
- CONNECTOR FOR METALLIC TO NON-METALLIC CONDUIT, 2" DIA.
- GALVANIZED STEEL CONDUIT, 2" DIA., INCLUDING BEND
- GALVANIZED STEEL CONDUIT, 2" DIA., TO CONTROL CENTER
- ELECTRIC CABLE IN CONDUIT. ALLOW ENOUGH CABLE FOR CONNECTION TO TRANSFORMER

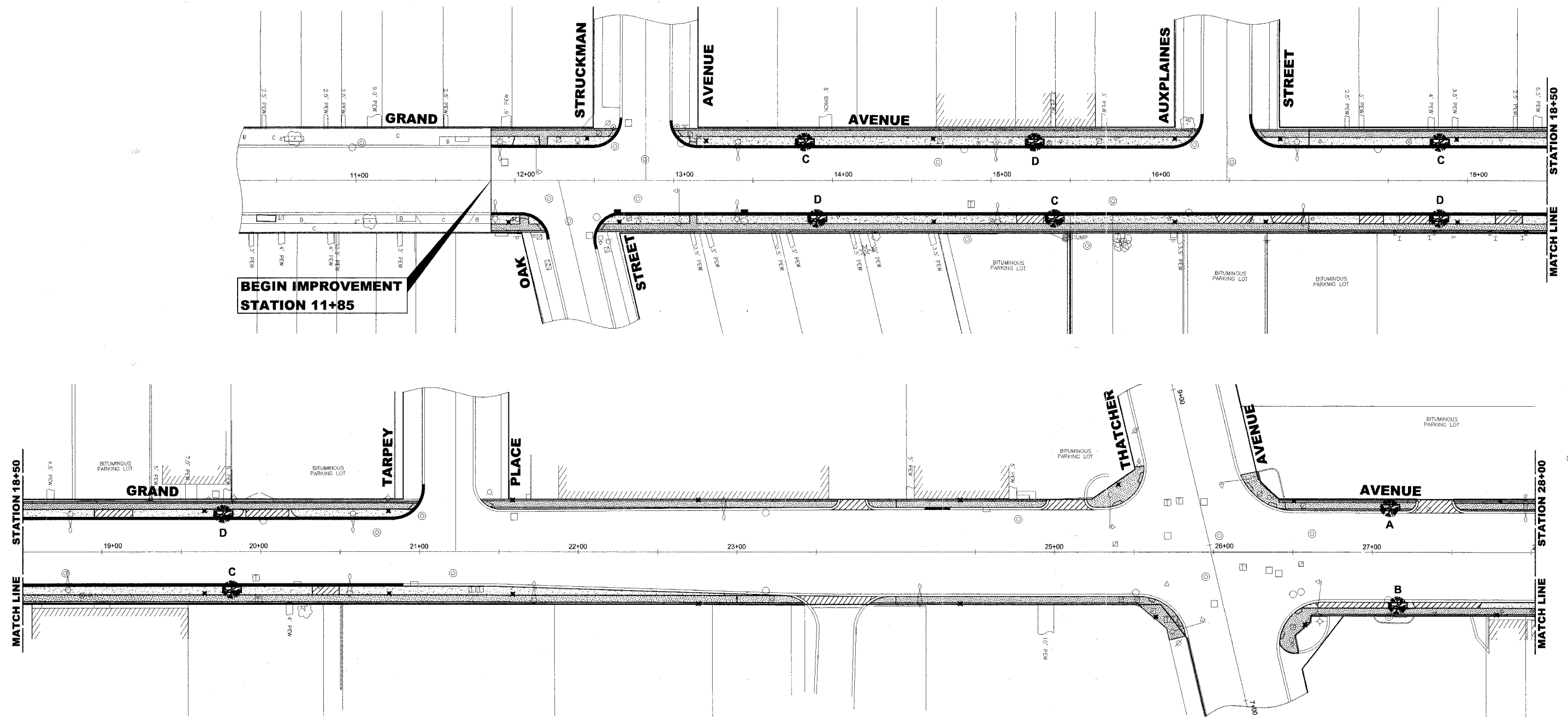
**SERVICE CONNECTION MODIFIED
(OR AS REQUIRED BY UTILITY COMPANY)**



- METERING SIDE OF CABINET
- RINGLESS TYPE METER SOCKET, SUPPLIED BY OTHERS
- CONTROL CENTER SIDE OF CABINET
- "V"-HANDLE LATCH & SHOOT BOLTS
- RUBBER GASKET BETWEEN DOOR & BOX FLANGE
- STAINLESS STEEL PIANO HINGE
- FORMED DOOR
- CONTROL CENTER BOX TO BE CONSTRUCTED OF 1/8" THICK SHEET ALUMINUM
- 1" CHAMFER
- POURED IN PLACE CLASS SI CONCRETE FOUNDATION
- GALVANIZED STEEL CONDUITS 3" DIA., TWO MORE THAN NECESSARY
- GALVANIZED STEEL CONDUITS 2" DIA., TO SERVICE POLE
- GROUND ROD CONNECTED TO GROUND WIRE WITH EXOTHERMIC WELD
- P.C.C. SIDEWALK, 5 INCH
- VENTING TO BE ALONG ROOF LINE

CONTROL CENTER CABINET & FOUNDATION

Drawing file: W:\Projects\76006033 - Grand Ave Streetscape\Lighting Details.dwg Oct 16, 2007 - 2:27pm



**BEGIN IMPROVEMENT
STATION 11+85**

TREE REPLACEMENT				
CODE	COMMON NAME	SCIENTIFIC NAME	SIZE	QUANTITY
A	BRADFORD PEAR	PYRUS CALLERYANA BRADFORD	2" CALIPER	1
B	COLUMNAR NORWAY MAPLE	ACER PLANTANOIDES COLUMNARE	3" CALIPER	1
C	GREENSPIRE LINDEN	TILIA CORDATA GREEN	3" CALIPER	4
D	SHADEMASTER HONEY LOCUST	GLEDTISIA TRIACANTHOS INTERMIS SHADEMASTER	3" CALIPER	4

NOTE: ALL TREES BALLED AND BURLAPPED

LANDSCAPING NOTES

SODDING:
ALL DISTURBED AREAS INDICATED ON CROSS SECTION OR LANDSCAPING PLANS TO BE SODDED, INCLUDING FERTILIZER NUTRIENTS*, AND SUPPLEMENTAL WATERING WHICH IS TO BE USED AFTER THE INITIAL WATERING (AS SPECIFIED AND AS DIRECTED BY THE ENGINEER) AT THE RATE OF 10 GALLONS PER SQUARE YARD SODDING. SODDED SLOPES WHICH ARE 2:1 OR STEEPER SHALL BE STAKED. (PROVIDE A 3" STRIP AROUND CATCH BASINS IN SEEDING AREAS).

FERTILIZER NUTRIENTS* FOR SODDING:
USE A FERTILIZER WITH A 1:1:1 RATIO PER ACRE:
60 LBS. NITROGEN FERTILIZER NUTRIENT
60 LBS. PHOSPHORUS FERTILIZER NUTRIENT
60 LBS. POTASSIUM FERTILIZER NUTRIENT
TOTAL: 180 LBS. PER ACRE

TREE REPLACEMENT:
TREE TYPE & LOCATION TO BE DETERMINED IN THE FIELD BY THE VILLAGE LICENSED FORESTER

4" TOP SOIL LAYER:
SOIL SHALL BE SPREAD AS INDICATED ON THE TYPICAL CROSS SECTIONS.

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
	PROPOSED CONCRETE AREA
	PROPOSED DECORATIVE BRICK SIDEWALK AREA
	PROPOSED CONCRETE DRIVEWAY AREA
	PROPOSED SODDED PARKWAY
	PROPOSED TREE WITH PLANTER

Drawing file: W:\Projects\76006033 - Grand Ave Streetscape\Landscaping_Grand.dwg Oct 16, 2007 - 2:24pm

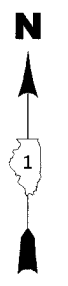
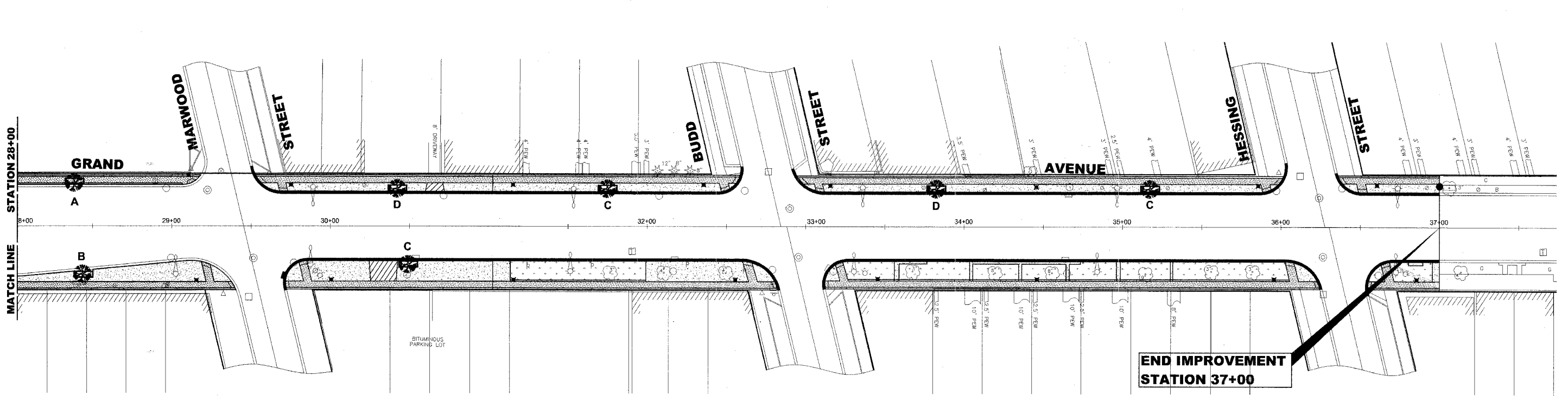
HANCOCK ENGINEERING ♦ Civil Engineers ♦ Municipal Consultants ♦ Established 1911

9933 Roosevelt Road
Westchester, Illinois 60154-2780
Phone: 708/865-0300
Fax: 708/865-1212

**GRAND AVENUE STREETScape PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS**

**LANDSCAPING PLAN
GRAND AVENUE**

SCALE:	1"=30'	SHEET	27
DRAWN BY:	LEV/ECW/MK	OF	35
BOOK NO.:	1441,1443,1516		
DATE:	10-15-07		
E.H.E. NO.:	760-06-03320		



LANDSCAPING NOTES

SODDING:
 ALL DISTURBED AREAS INDICATED ON CROSS SECTION OR LANDSCAPING PLANS TO BE SODDED, INCLUDING FERTILIZER NUTRIENTS*, AND SUPPLEMENTAL WATERING WHICH IS TO BE USED AFTER THE INITIAL WATERING (AS SPECIFIED AND AS DIRECTED BY THE ENGINEER) AT THE RATE OF 10 GALLONS PER SQUARE YARD SODDING. SODDED SLOPES WHICH ARE 2:1 OR STEEPER SHALL BE STAKED. (PROVIDE A 3" STRIP AROUND CATCH BASINS IN SEEDING AREAS).

FERTILIZER NUTRIENTS* FOR SODDING:
 USE A FERTILIZER WITH A 1:1:1 RATIO PER ACRE:
 60 LBS. NITROGEN FERTILIZER NUTRIENT
 60 LBS. PHOSPHORUS FERTILIZER NUTRIENT
 60 LBS. POTASSIUM FERTILIZER NUTRIENT
 TOTAL: 180 LBS. PER ACRE

TREE REPLACEMENT:
 TREE TYPE & LOCATION TO BE DETERMINED IN THE FIELD BY THE VILLAGE LICENSED FORESTER

4" TOP SOIL LAYER:
 SOIL SHALL BE SPREAD AS INDICATED ON THE TYPICAL CROSS SECTIONS.

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
	PROPOSED CONCRETE AREA
	PROPOSED DECORATIVE BRICK SIDEWALK AREA
	PROPOSED CONCRETE DRIVEWAY AREA
	PROPOSED SODDED PARKWAY
	PROPOSED TREE WITH PLANTER

TREE REPLACEMENT				
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C	GREENSPIRE LINDEN	TILIA CORDATA GREEN	3" CALIPER	3
D	SHADEMASTER HONEY LOCUST	GLEDITSIA TRIACANTHOS INTERMIS SHADEMASTER	3" CALIPER	2

NOTE: ALL TREES BALLED AND BURLAPPED

Drawing File: W:\Projects\76006033 - Grand Ave Streetscape\Landscaping_Grand.dwg Oct 16, 2007 - 2:24pm

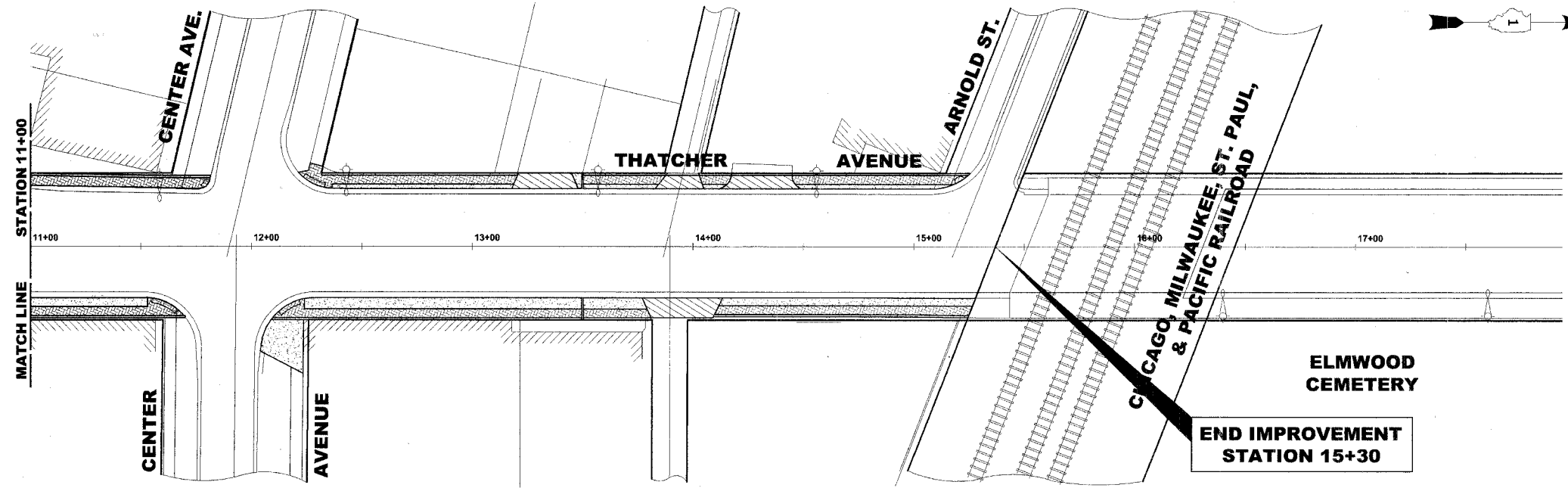
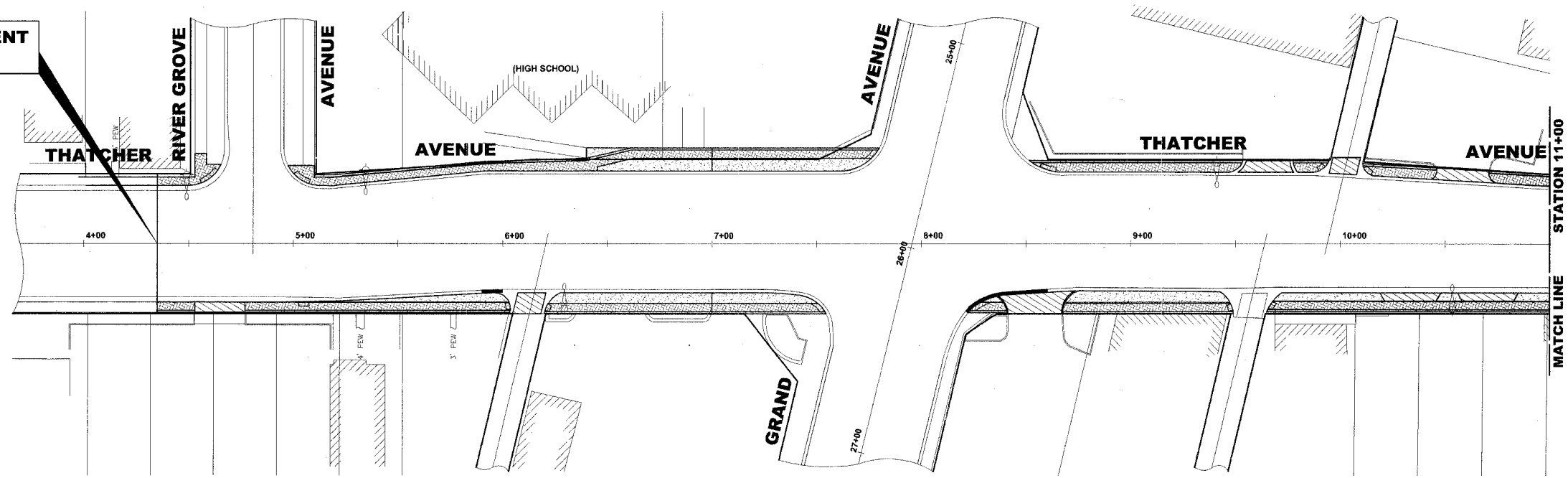
	◆ Civil Engineers	9933 Roosevelt Road
	◆ Municipal Consultants	Westchester, Illinois 60154-2780
	◆ Established 1911	Phone: 708/865-0300
		Fax: 708/865-1212

GRAND AVENUE STREETScape PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS

LANDSCAPING PLAN
GRAND AVENUE

SCALE:	1"=30'	SHEET	28
DRAWN BY:	LEV/ECW/MK	OF	35
BOOK NO.:	1441,1443,1516		
DATE:	10-15-07		
REVISION:			
E.H.E. NO.:	760-06-03320		

**BEGIN IMPROVEMENT
STATION 4+35**



LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
	PROPOSED CONCRETE AREA
	PROPOSED BRICK PAVING SIDEWALK AREA
	PROPOSED CONCRETE DRIVEWAY AREA

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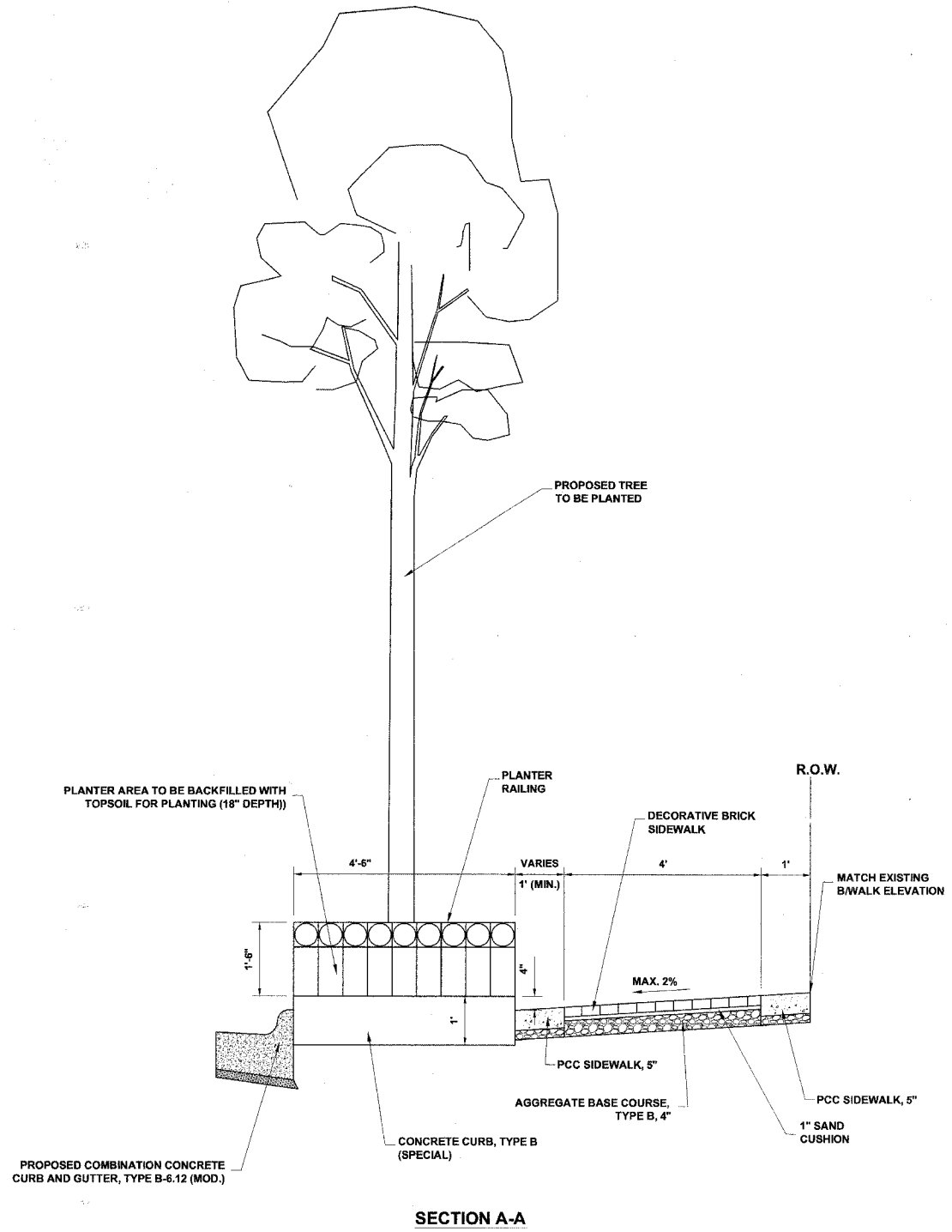
HANCOCK ENGINEERING ♦ Civil Engineers
 ♦ Municipal Consultants ♦ Established 1911
 9933 Roosevelt Road Westchester, Illinois 60154-2780
 Phone: 708/865-0300 Fax: 708/865-1212

**GRAND AVENUE STREETSCAPE PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS**

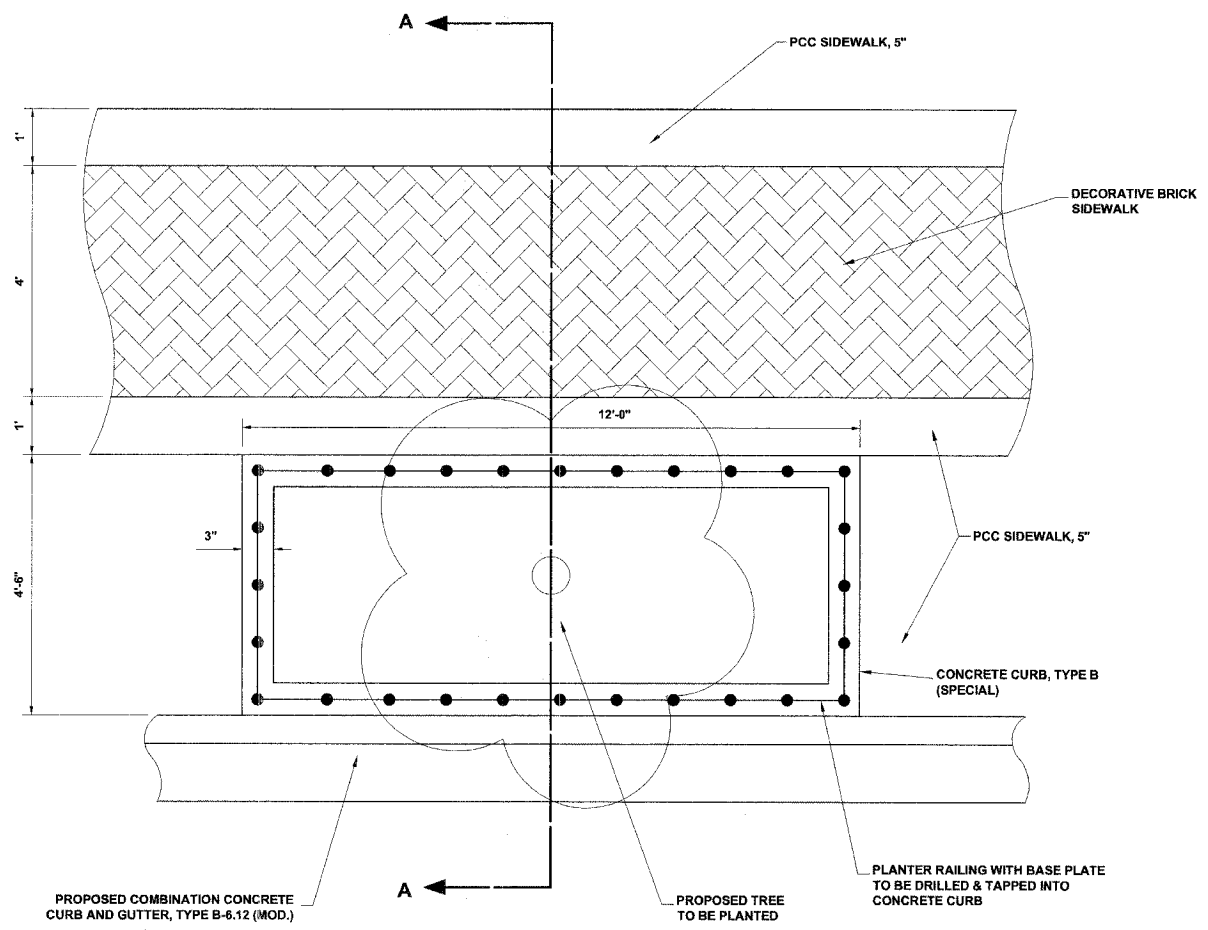
**LANDSCAPING PLAN
THATCHER AVENUE**

SCALE:	1"=30'	SHEET	29
DRAWN BY:	LEV/ECW/MK	OF	35
BOOK NO.:	1441,1443,1516		
DATE:	10-15-07		
REVISION:			
E.H.E. NO.:	760-06-03320		

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 1376	**	COOK	35	30
ILLINOIS PROJECT: TE-00D1(754)				
VILLAGE SECTION: 06-00087-00-SW				
CONTRACT NO. 83926				



SECTION A-A



PLAN VIEW

LANDSCAPING DETAIL

Drawing File: W:\Projects\76005033 - Grand Ave Streetscape\Landscaping Details.dwg Oct 16, 2007 - 2:25pm

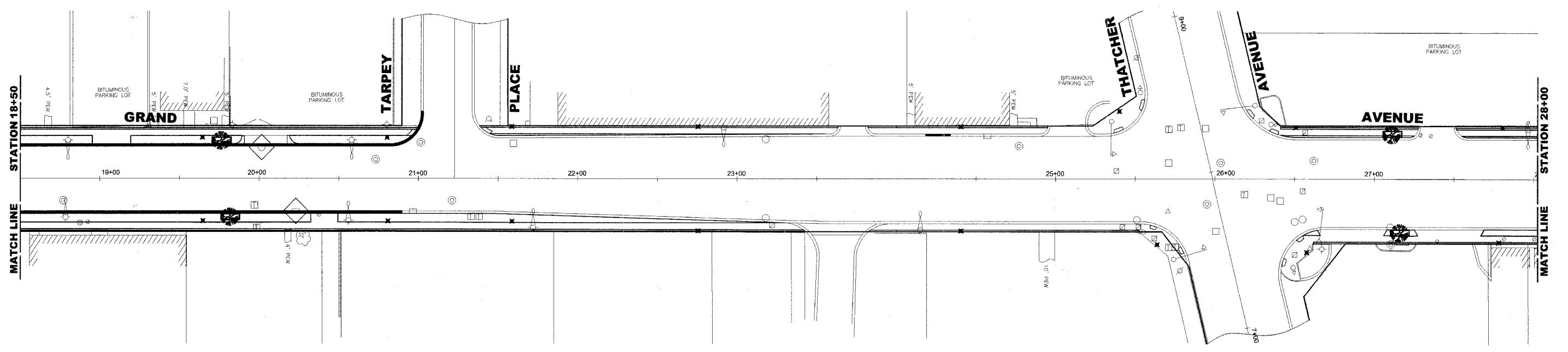
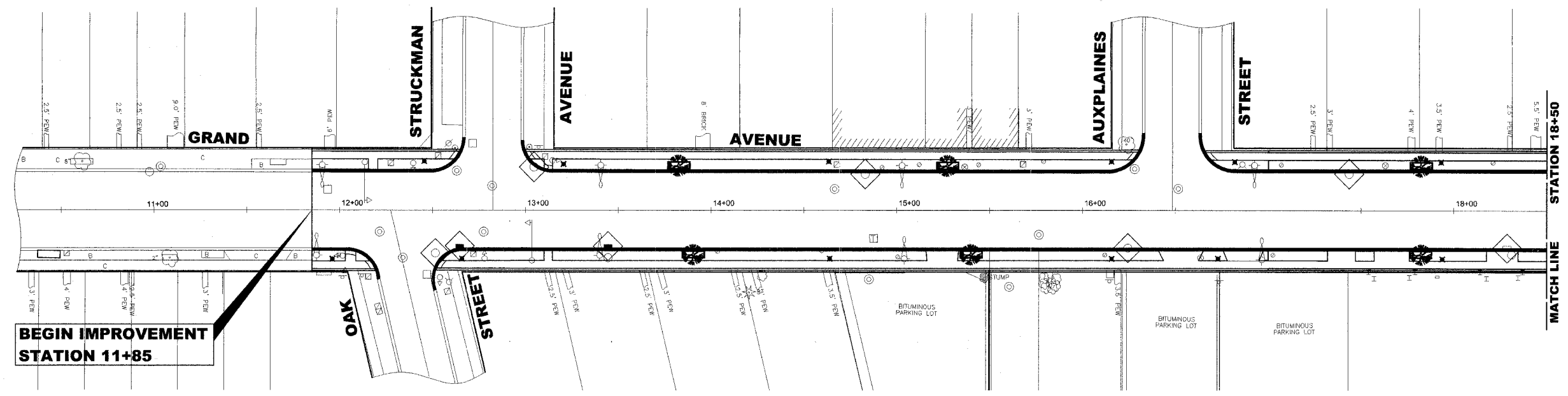
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 Phone: 708/865-0300
 Fax: 708/865-1212

**GRAND AVENUE STREETSCAPE PROJECT
 VILLAGE OF RIVER GROVE, ILLINOIS**

LANDSCAPING DETAILS

SCALE:	NOT TO SCALE	SHEET 30 OF 35
DRAWN BY:	LEV/ECW/MK	
BOOK NO.:	1441,1443,1516	
DATE:	10-15-07	
E.H.E. NO.:	760-06-03320	
REVISION:		



NOTES

1. SEE IDOT STANDARD 280001-3 FOR TEMPORARY EROSION CONTROL.
2. THE CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTIES REMAIN PROTECTED FROM SEDIMENT DEPOSITION.
3. SOIL STOCKPILES SHALL BE PROTECTED WITH PERIMETER EROSION BARRIER OR OTHER EROSION PROTECTION SPECIFIED BY THE RESIDENT ENGINEER. THE COST SHALL BE INCLUDED IN THE UNIT PRICE FOR THE INDIVIDUAL SOIL MATERIALS.
4. WHEREVER CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY RUNOFF OR VEHICLE TRACKING ONTO THE PAVED SURFACE. THE PROVISIONS MAY INCLUDE SPRAYING VEHICLE WHEELS TO CLEAR SEDIMENT BEFORE EXITING THE CONSTRUCTION SITE OR OTHER MEASURES APPROVED BY THE ENGINEER.

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
	SEDIMENT CONTROL, DRAINAGE STRUCTURE, INLET FILTER CLEANING
	INLET FILTER

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 ♦ Municipal Consultants ♦ Established 1911

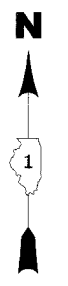
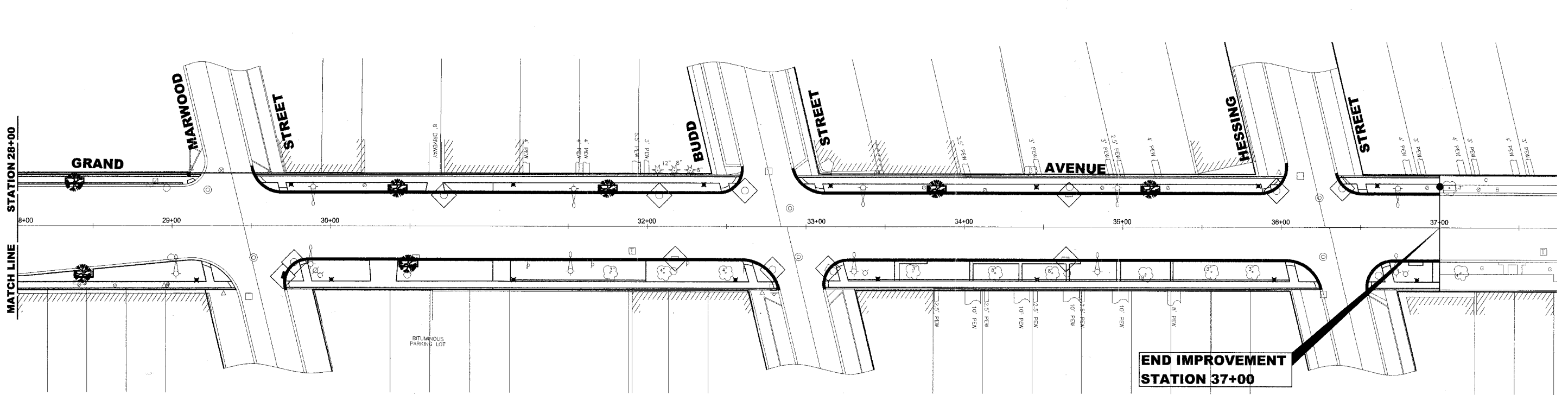
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GRAND AVENUE STREETScape PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS

EROSION CONTROL PLAN
GRAND AVENUE

SCALE:	1"=30'	SHEET	31
DRAWN BY:	LEV/ECW/MK	OF	35
BOOK NO.:	1441,1443,1516		
DATE:	10-15-07		
E.H.E. NO.:	760-06-03320		
REVISION:			

Drawing File: W:\Projects\7600633 - Grand Ave Streetscape\Erosion_Grand.dwg Oct 15, 2007 - 2:23pm



NOTES

1. SEE IDOT STANDARD 280001-3 FOR TEMPORARY EROSION CONTROL.
2. THE CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTIES REMAIN PROTECTED FROM SEDIMENT DEPOSITION.
3. SOIL STOCKPILES SHALL BE PROTECTED WITH PERIMETER EROSION BARRIER OR OTHER EROSION PROTECTION SPECIFIED BY THE RESIDENT ENGINEER. THE COST SHALL BE INCLUDED IN THE UNIT PRICE FOR THE INDIVIDUAL SOIL MATERIALS.
4. WHEREVER CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY RUNOFF OR VEHICLE TRACKING ONTO THE PAVED SURFACE. THE PROVISIONS MAY INCLUDE SPRAYING VEHICLE WHEELS TO CLEAR SEDIMENT BEFORE EXITING THE CONSTRUCTION SITE OR OTHER MEASURES APPROVED BY THE ENGINEER.

LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
	SEDIMENT CONTROL, DRAINAGE STRUCTURE, INLET FILTER CLEANING
	INLET FILTER

Drawing File: W:\Projects\76060033 - Grand Ave Streetscape\Erosion_Control.dwg Oct 16, 2007 - 2:23pm

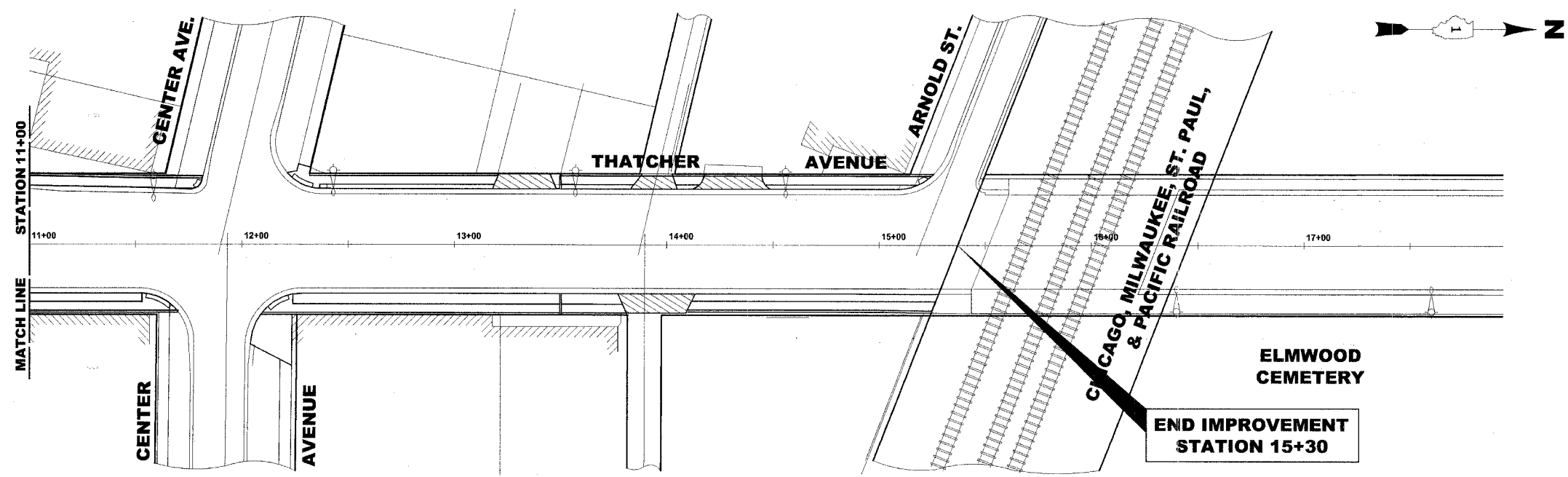
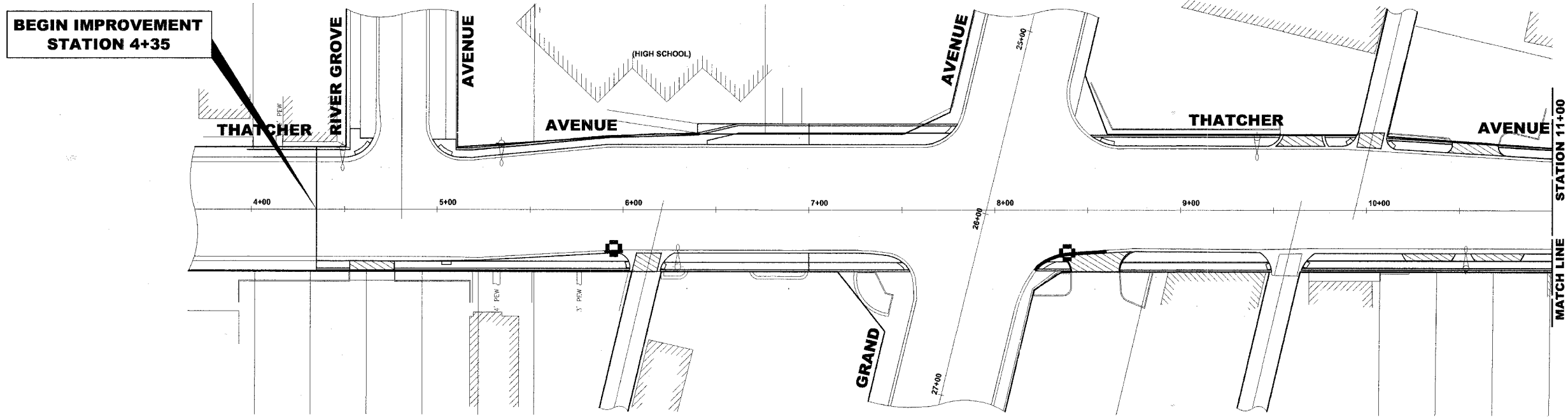


♦ Civil Engineers
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**GRAND AVENUE STREETScape PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS**

**EROSION CONTROL PLAN
GRAND AVENUE**

SCALE:	1"=30'	SHEET	32
DRAWN BY:	LEV/ECW/MK	OF	35
BOOK NO.:	1441,1443,1516		
DATE:	10-15-07		
REVISION:			
E.H.E. NO.:	760-06-03320		



LEGEND OF SYMBOLS

SYMBOL	DESCRIPTION
	SEDIMENT CONTROL, DRAINAGE STRUCTURE, INLET FILTER CLEANING
	INLET FILTER

NOTES

- SEE IDOT STANDARD 280001-3 FOR TEMPORARY EROSION CONTROL.
- THE CONTRACTOR SHALL ENSURE THAT ADJACENT PROPERTIES REMAIN PROTECTED FROM SEDIMENT DEPOSITION.
- SOIL STOCKPILES SHALL BE PROTECTED WITH PERIMETER EROSION BARRIER OR OTHER EROSION PROTECTION SPECIFIED BY THE RESIDENT ENGINEER. THE COST SHALL BE INCLUDED IN THE UNIT PRICE FOR THE INDIVIDUAL SOIL MATERIALS.
- WHEREVER CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY RUNOFF OR VEHICLE TRACKING ONTO THE PAVED SURFACE. THE PROVISIONS MAY INCLUDE SPRAYING VEHICLE WHEELS TO CLEAR SEDIMENT BEFORE EXITING THE CONSTRUCTION SITE OR OTHER MEASURES APPROVED BY THE ENGINEER.

Drawing File: W:\Projects\76000033 - Grand Ave Streetscape\Erosion_Thatcher.dwg Oct 16, 2007 - 2:24pm

HANCOCK ENGINEERING

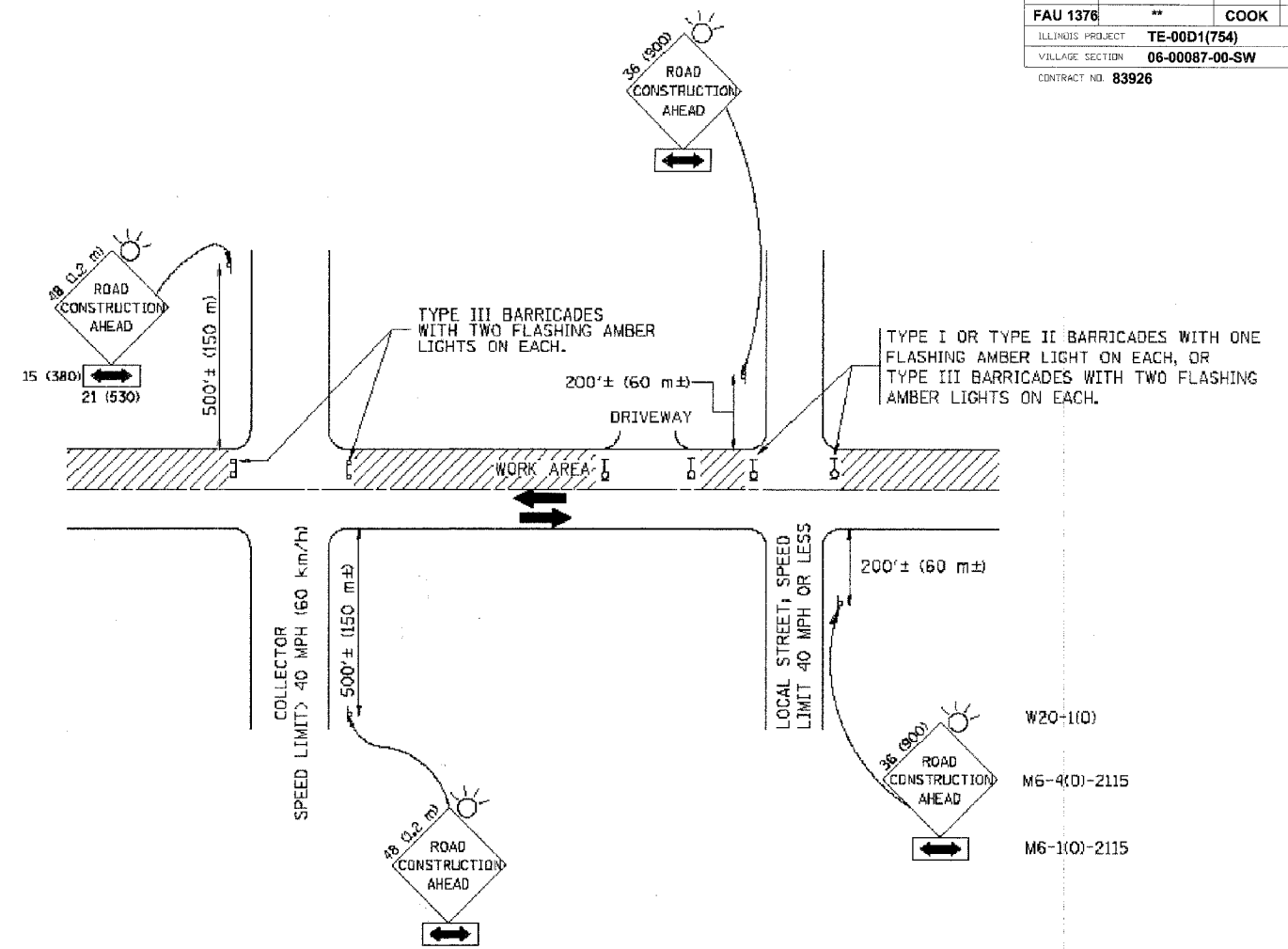
- ◆ Civil Engineers
- ◆ Municipal Consultants
- ◆ Established 1911

9933 Roosevelt Road
Westchester, Illinois 60154-2780
Phone: 708/865-0300
Fax: 708/865-1212

**GRAND AVENUE STREETScape PROJECT
VILLAGE OF RIVER GROVE, ILLINOIS**

**EROSION CONTROL PLAN
THATCHER AVENUE**

SCALE:	1"=30'	SHEET	33
DRAWN BY:	LEV/ECW/MK	OF	35
BOOK NO.:	1441,1443,1516		
DATE:	10-15-07		
REVISION:	E.H.E. NO.: 760-06-03320		



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

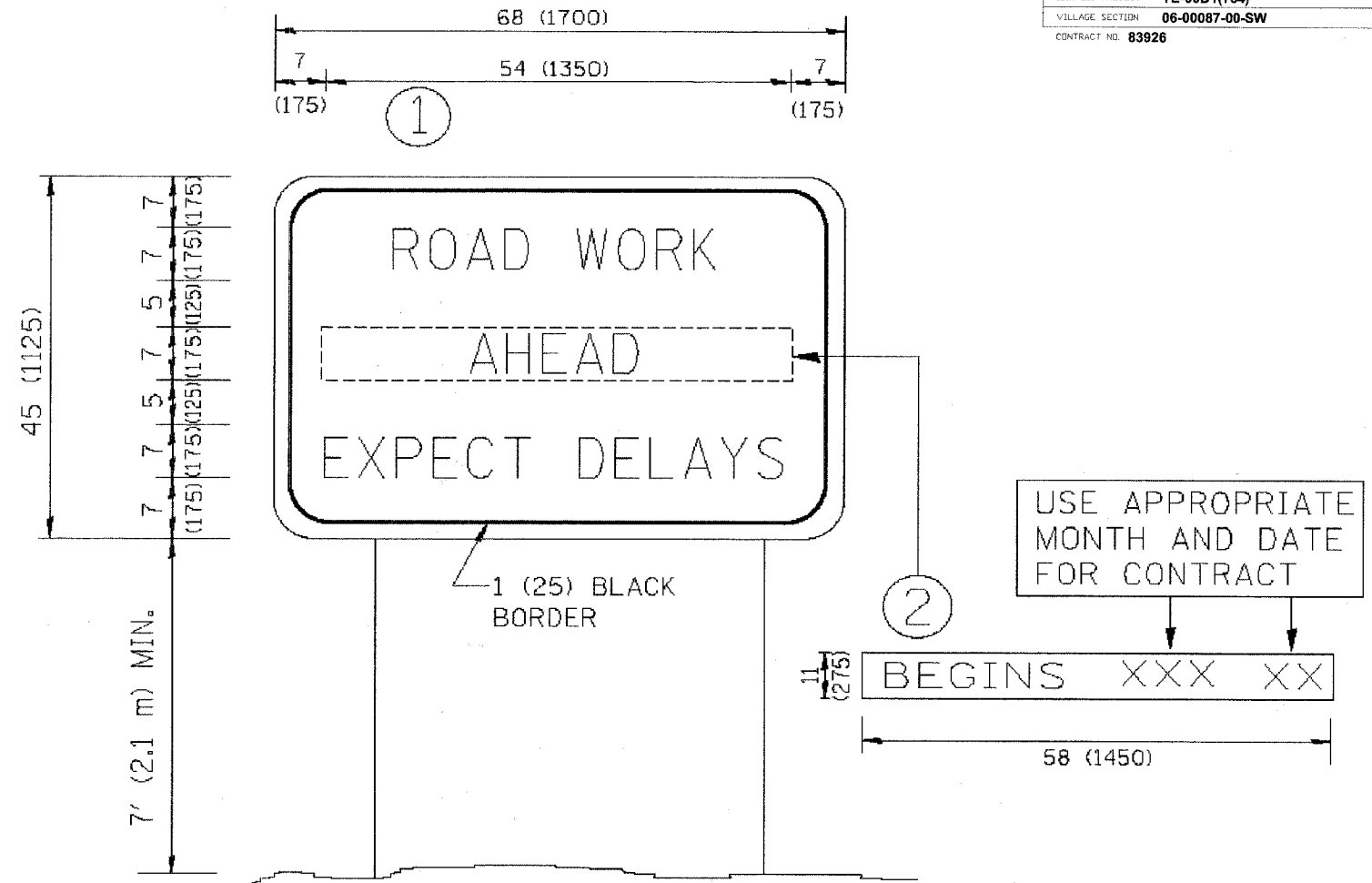
ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL AND PROTECTION
 FOR
 SIDE ROADS, INTERSECTIONS, AND
 DRIVEWAYS**

SCALE: NONE

DRAWN BY

CHECKED BY

E.H.E. PROJECT NO. 760-06-03320



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUCIUS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD
INFORMATION SIGN

SCALE: NONE

DRAWN BY DESIGN

CHECKED BY