

03-08-2019 LETTING ITEM 151

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
**PLANS FOR PROPOSED
 FEDERAL AID HIGHWAY**
FAU 2704 (BRAINARD AVENUE)
 FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET)
SHARED-USE PATHWAY
 SECTION 14-00041-00-BT
 PROJECT SYHJ (888)
 CITY OF COUNTRYSIDE
 COOK COUNTY
 JOB C-91-083-15

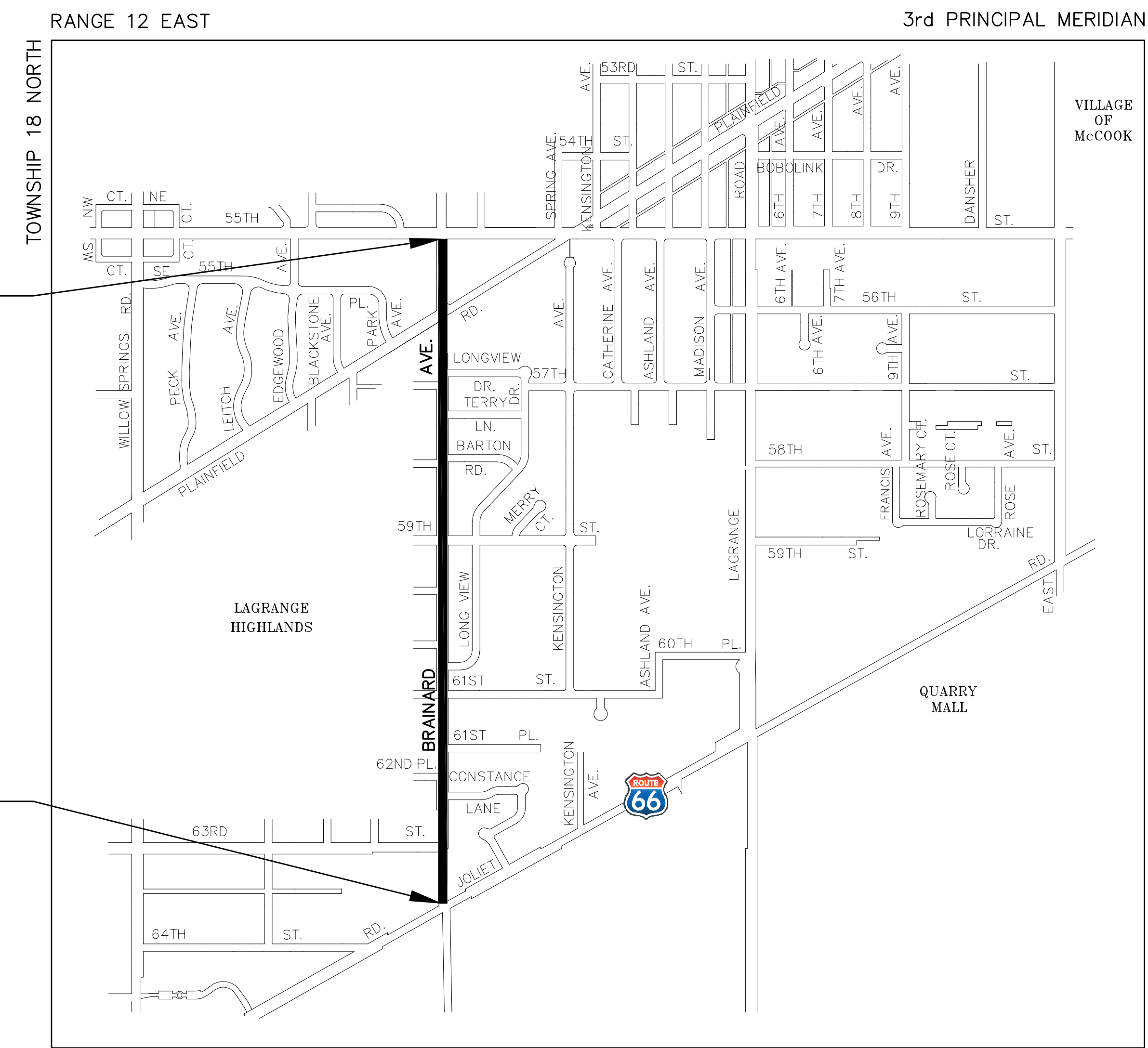
FAU RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	1
F.H.W.A. REG.		ILLINOIS	PROJECT SYHJ (888)	

CONTRACT NO. 61F60

FOR INDEX OF SHEETS, SEE SHEET 2



LOCATION OF SECTION INDICATED THUS: ■

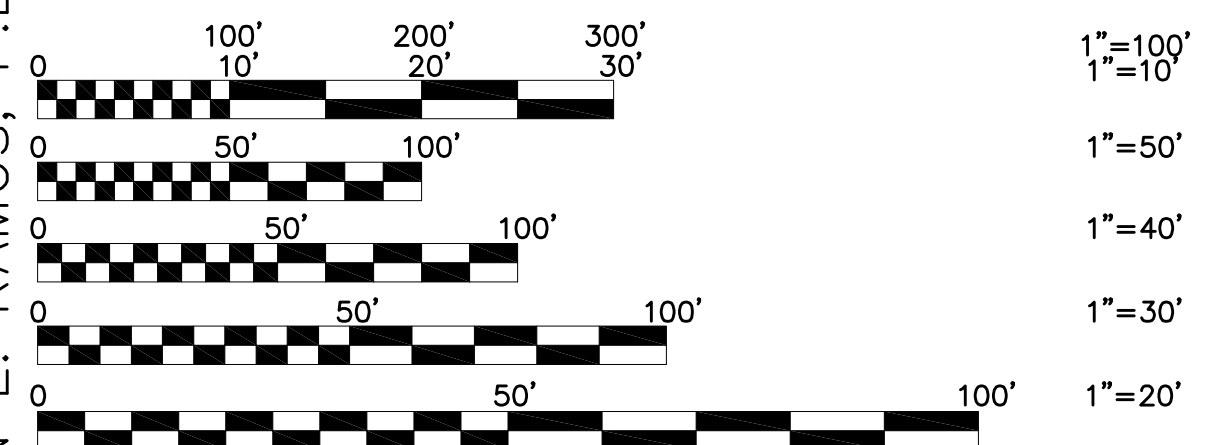


PROJECT LOCATION MAP
 N.T.S.

— DENOTES LOCATION OF IMPROVEMENT

GROSS LENGTH OF PROJECT = 5,697 FEET (1.08 MILES)
 NET LENGTH OF PROJECT = 5,697 FEET (1.08 MILES)

TRAFFIC DATA	DESIGN DESIGNATION
ADT: BRAINARD AVENUE 2400 (2017)	MINOR COLLECTOR
POSTED SPEED	DESIGN SPEED
35 MPH (EXISTING)	35 MPH (EXISTING)
35 MPH (PROPOSED)	35 MPH (PROPOSED)



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
 CALL 811

Know what's below.
 Call before you dig.

NOVOTNY ENGINEERING
 545 Plainfield Road, Suite A
 Willowbrook, IL 60527
 T: (630) 887.8640
 F: (630) 887.0132
 Illinois Professional Design Firm No. 184-009928

FNA PROJECT NO. 13250 DRAWN/DESIGNED JFP/THK CHECKED/APPROVED JEF/THK

R E V I S I O N S			
NO.	BY	DATE	DESCRIPTION
1	THK	11-26-18	IDOT REVIEW
2	THK	12-03-18	COOK COUNTY
3	THK	12-10-18	COOK COUNTY
4	THK	12-17-18	IDOT REVIEW
5	THK	1-14-19	IDOT REVIEW
6	THK	1-30-19	COOK COUNTY

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

APPROVED NOV. 26 2018
Sean R. McDermott
 SEAN R. McDERMOTT, CITY MANAGER

PASSED DECEMBER 11 2018
Anthony Quinley
 ANTHONY QUINLEY, DISTRICT ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
 BASED ON LIMITED REVIEW
DECEMBER 11 2018
Anthony Quinley
 ANTHONY QUINLEY, REGIONAL ENGINEER

TRAFFIC SIGNAL ENGINEER: SHEETS 25-33

Dana M. Schnabel
 DANA M. SCHNABEL, P.E.
 IL. P.E. NO. 062-054043
 EXPIRES 11-30-2019
12-03-18
 DATE

CIVIL ENGINEER: SHEETS 1-24 AND 34-44

Timothy H. Klass
 TIMOTHY H. KLASS, P.E.
 IL. P.E. NO. 062-046111
 EXPIRES 11-30-2019
12-03-18
 DATE

**PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS**

PROGRAM FEDERAL AID ENGINEER: CARMEN E. RAMOS, P.E. SCHAUMBURG, IL.

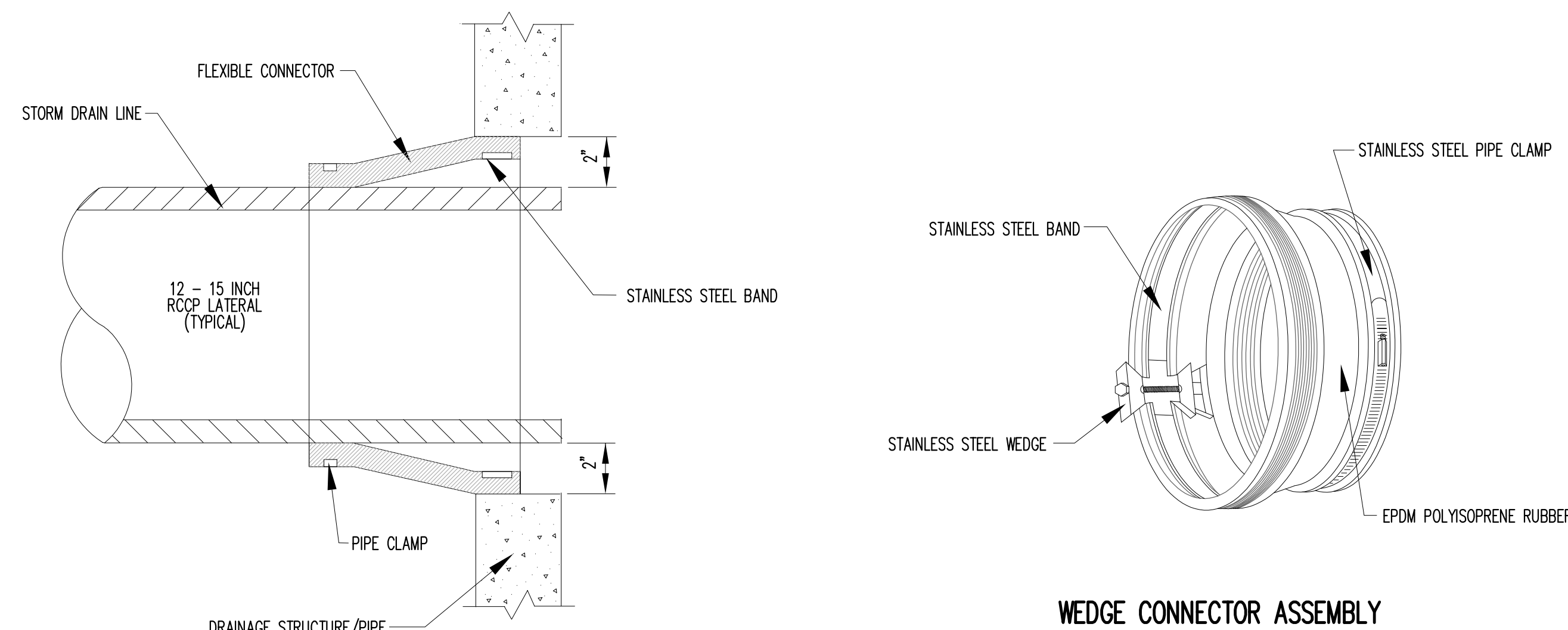
INDEX OF SHEETS

- 1.) COVER SHEET: LOCATION MAP
- 2.) INDEX OF SHEETS, LIST OF DISTRICT 1 STANDARD DETAILS, LIST OF ILLINOIS DOT HIGHWAY STANDARDS, GENERAL NOTES, DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED, SPECIAL, BENCHMARKS, HOT-MIX ASPHALT MIXTURE REQUIREMENTS, CONNECTION TO EXISTING DRAINAGE STRUCTURE
- 3.-4.) SUMMARY OF QUANTITIES
- 5.) TYPICAL SECTIONS
- 6.-13.) PLAN AND PROFILE: FAU 2704 (BRAINARD AVENUE) - (EXISTING & PROPOSED GRADING, DRAINAGE, AND UTILITY PLAN) FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET)
- 14.-21.) PLAN AND PROFILE: FAU 2704 (BRAINARD AVENUE) - (PROPOSED PAVING, GRADES, AND GEOMETRY, PAVEMENT MARKING AND SIGNING, AND LANDSCAPING PLAN) FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET)
- 22.) GENERAL PLANTING, SPECIFICATIONS, PLANT LIST, PLANTING DETAILS
- 23.) SOIL EROSION AND SEDIMENTATION CONTROL PLAN
- 24.) EARTHWORK TABLE
- 25.-31.) DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
- 32.) TRAFFIC SIGNAL MODIFICATION PLAN BRAINARD AVENUE AND PLAINFIELD ROAD
- 33.) CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION SEQUENCE, AND SCHEDULE OF QUANTITIES BRAINARD AVENUE AT PLAINFIELD ROAD
- 34.) BD-22 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
- 35.) BD-24 CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
- 36.) BD-36 FIRE HYDRANT TO BE MOVED
- 37.) TC-10 TRAFFIC CONTROL & PROTECTION FOR SIDE ROADS, INTERSECTIONS & DRIVEWAYS
- 38.) TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS
- 39.) TC-22 ARTERIAL ROAD INFORMATION SIGN
- 40.-42.) ADA RAMP DETAILS
- 43.-47.) CROSS SECTIONS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-07	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-04	DIAGONAL CURB RAMPS FOR SIDEWALKS
424021-05	DEPRESSED CORNER FOR SIDEWALKS
424026-03	ENTRANCE/ALLEY PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
542201-02	REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS 15" (375 mm) THRU 36" (900 mm) DIA. SKEWED WITH ROADWAY
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
542311-07	TRAVERSABLE PIPE GRATE FOR CONCRETE END SECTIONS
602011-02	CATCH BASIN-TYPE C
604001-04	FRAMES & LIDS-TYPE 1
604036-03	GRATE TYPE 8
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB & GUTTER
664001-02	CHAIN LINK FENCE
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701501-06	URBAN LANE CLOSURE, 2 L, 2 W UNDIVIDED
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
878001-10	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS

CONNECTION TO EXISTING DRAINAGE STRUCTURE



- NOTES:
1. USE FOR ALL LATERAL CONNECTIONS TO 24" DIAMETER OR GREATER STORM SEWERS AND FOR CONNECTIONS TO ALL DRAINAGE STRUCTURES UNLESS OTHERWISE NOTED ON PLANS.
 2. CONTRACTOR SHALL REMOVE SECTION OF DRAINAGE STRUCTURE OR STORM SEWER USING CONCRETE CORING METHOD AND SHALL BE APPROVED BY RESIDENT ENGINEER.
 3. CONTRACTOR SHALL USE PRECAST REINFORCED CONCRETE TEE AND WYE CONNECTION FOR STORM SEWER TO STORM SEWER CONNECTIONS LESS THAN 24" DIAMETER.

**GENERAL NOTES
PAVING AND STORM SEWERS**

SPECIFICATIONS
THE APRIL 1, 2016 EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" SHALL GOVERN ALL WORK ASSOCIATED WITH THIS PROJECT. THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY GOVERN OTHER WORK ON THIS PROJECT AS INDICATED BY REFERENCE.

CARE IN EXCAVATION

THE CONTRACTOR SHALL EXERCISE CARE DURING EARTH AND/OR TRENCHING OPERATIONS TO AVOID DAMAGE TO LOCAL UTILITY SERVICES, WATER VALVES, MANHOLES, CATCH BASINS, INLETS, BUFFALO BOXES, AND OTHER STRUCTURES. ALL DAMAGE DONE BY THE CONTRACTOR, WHETHER THE STRUCTURE OR SERVICE IS VISIBLE AT THE GROUND SURFACE OR NOT, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 105.07 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

NOTIFICATION OF PUBLIC UTILITIES

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OFFICIALS OF THE PUBLIC WORKS DEPARTMENT OF CITY OF COUNTRYSIDE, J.U.L.I.E. AT 1-800-892-0123 OR 811, AND OTHER PUBLIC AND PRIVATE UTILITIES TO MAKE ARRANGEMENTS TO LOCATE THEIR VARIOUS FACILITIES WITHIN THE LIMITS OF CONSTRUCTION UNDER THIS CONTRACT, AND TO PROVIDE ADEQUATE PROTECTION AND INSPECTION. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES IN THE FIELD.

TRAFFIC CONTROL DEVICES

BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 107.14 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

PROTECTION OF SIGNS AND PROPERTY

ALL TRAFFIC SIGNS, STREET SIGNS, ETC., THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AND PLACED AT NEW LOCATIONS AS DESIGNATED BY THE ENGINEER. IN ADDITION, ALL MAIL BOXES THAT INTERFERE WITH CONSTRUCTION SHALL BE SIMILARLY RELOCATED IN ACCORDANCE WITH ARTICLES 107.20 AND 107.21 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

SUPERINTENDENCE

THE CONTRACTOR SHALL HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES, IRRESPECTIVE OF THE AMOUNT OF WORK SUBLET. THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT AND SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVING CONTROL OF ALL THE WORK AS THE AGENT OF THE GENERAL CONTRACTOR. FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK AS PROVIDED IN ARTICLE 108.07.

CONSTRUCTION LAYOUT STAKES

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH WOODEN STAKES OR OTHER LAYOUT MATERIALS FOR LAYOUT OF THE LINES AND GRADES OF THE PROJECT. FAILURE TO PROVIDE STAKES IN A TIMELY MANNER WILL RESULT IN A DELAY IN STAKEOUT WHICH WILL BE APPLICABLE AGAINST THE TIME LIMIT FOR COMPLETION SHOWN IN THE PROJECT SPECIFICATIONS. LINE AND GRADE WILL BE ESTABLISHED BY THE ENGINEER AT REGULAR INTERVALS ON PERMANENTLY PAVED SURFACES, SIDEWALKS OR STAKES AT THE ENGINEER'S OPTION, ALL WITHIN THE PUBLIC RIGHT-OF-WAY AND SHALL BE TRANSFERRED BY THE CONTRACTOR TO THE ACTUAL LINE OF CONSTRUCTION.

PROJECT SAFETY

THE CONTRACTOR SHALL COMPLY WITH AND OBSERVE THE RULES AND REGULATIONS OF O.S.H.A. AND APPROPRIATE AUTHORITIES REGARDING SAFETY PROVISIONS. THE CONTRACTOR, ENGINEER, AND OWNER SHALL EACH BE RESPONSIBLE FOR THEIR OWN RESPECTIVE AGENTS AND EMPLOYEES.

THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS, OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS/HER WORK IN ACCORDANCE WITH THE DOCUMENTS AND SPECIFICATIONS.

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

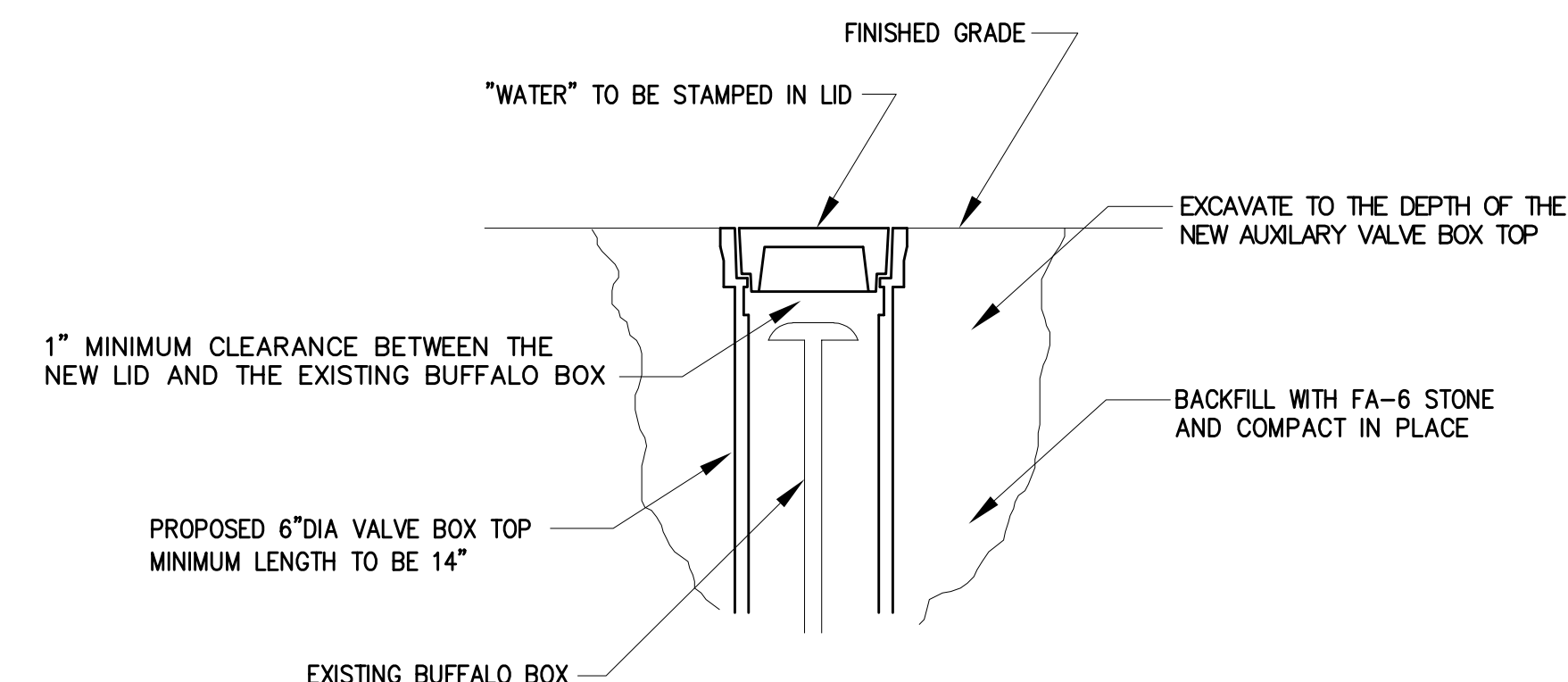
TWO WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES USING THE DAYTIME LANE CLOSURES USING FLAGGERS WITHIN THE HOURS OF 9AM TO 3PM FOR ANY CONSTRUCTION ACTIVITY ENCRDACHING INTO A LANE OPEN TO TRAFFIC.

BENCHMARKS

NOTE:
ELEVATIONS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

BENCHMARKS ARE LOCATED IN VARIOUS LOCATIONS ON THE INDIVIDUAL PLAN SHEETS.

DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED, SPECIAL



NOTE: CONTRACTOR SHALL MILL BEFORE PATCHING.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES
ROADWAY PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL-9.5mm), 1-3/4"	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4"	4% @ 50 GYR
PATCHING	
CLASS D PATCHES 8" (HMA BINDER IL-19)	4% @ 70 GYR
DRIVEWAYS	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, (IL-9.5mm), 3" (IN TWO LIFTS)	4% @ 50 GYR

HOT-MIX SURFACE REMOVAL TO BE PERFORMED BEFORE PATCHING OPERATIONS
THE UNIT WEIGHT TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

"THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS" FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-00928

FILE NAME CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET) #13250 SHARED-USE PATHWAY	USER NAME =	DESIGNED -- THK DRAWN -- JFP CHECKED -- JEF DATE -- 10/18	REVISED -- 11-26-18 IDOT REVIEW REVISED -- 12-03-18 COOK COUNTY REVISED -- 12-10-18 COOK COUNTY REVISED -- 12-17-18 IDOT REVIEW REVISED -- 1-30-19 COOK COUNTY
---	-------------	--	--

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, LIST OF DISTRICT 1 STANDARD DETAILS, LIST OF ILLINOIS DOT HIGHWAY STANDARDS, GENERAL NOTES, DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED, SPECIAL, BENCHMARKS, HOT-MIX ASPHALT MIXTURE REQUIREMENTS, CONNECTION TO EXISTING DRAINAGE STRUCTURE

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.U. RTE. 2704	SECTION 14-00041-00-BT	COUNTY COOK	TOTAL SHEETS 47	SHEET NO. 2
CONTRACT NO. 61F60			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

Code No	Description	Unit	Total Quantity
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	460
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	330
20200100	EARTH EXCAVATION	CU YD	2,680
20800150	TRENCH BACKFILL	CU YD	150
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	12,300
21400100	GRADING AND SHAPING DITCHES	FOOT	2,660
△ 25000400	NITROGEN FERTILIZER NUTRIENT	POUND	150
△ 25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	150
△ 25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	150
△ 25200110	SODDING, SALT TOLERANT	SQ YD	12,400
△ 25200200	SUPPLEMENTAL WATERING	UNIT	125
28000400	PERIMETER EROSION CONTROL BARRIER	FOOT	1,900
28000500	INLET AND PIPE PROTECTION	EACH	10
28000510	INLET FILTERS	EACH	26
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	235
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	4,900
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	100
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	11,025
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,105
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	660
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	440
42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	205
42400410	PORTLAND CEMENT CONCRETE SIDEWALK 8 INCH	SQ FT	2,240
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	205
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	305
44000600	SIDEWALK REMOVAL	SQ FT	3,910
44201737	CLASS D PATCHES, TYPE 1, 8 INCH	SQ YD	90
50105220	PIPE CULVERT REMOVAL	FOOT	85
54213655	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 10"	EACH	2
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	2

△ SPECIALTY ITEMS

Code No	Description	Unit	Total Quantity
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	150
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	97
550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	FOOT	175
550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	45
△ 56400800	FIRE HYDRANT AND VALVE TO BE MOVED	EACH	8
△ 56500600	DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED	EACH	1
60200805	CATCH BASINS, TYPE A, 4' DIAMETER, TYPE 8 GRATE	EACH	1
60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	8
60250200	CATCH BASINS TO BE ADJUSTED	EACH	2
60255500	MANHOLES TO BE ADJUSTED	EACH	11
60260100	INLETS TO BE ADJUSTED	EACH	3
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	5
60266600	VALVE BOXES TO BE ADJUSTED	EACH	6
60500050	REMOVING CATCH BASINS	EACH	2
60500060	REMOVING INLETS	EACH	1
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	305
△ 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	155
△ 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1
△ 66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	1
△ 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1
△ 66900530	SOIL DISPOSAL ANALYSIS	EACH	2
67100100	MOBILIZATION	L SUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1
△ 72000100	SIGN PANEL - TYPE I	SQ FT	295
△ 72900100	METAL POST - TYPE A	FOOT	790
△ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,480
△ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	645
△ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1,205

FILE NAME CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET) #13250 SHARED-USE PATHWAY	USER NAME =	DESIGNED - THK DRAWN - JFP CHECKED - JEF DATE - 10/18	REVISED - 11-26-18 IDOT REVIEW REVISED - 12-03-18 COOK COUNTY REVISED - 12-10-18 COOK COUNTY REVISED - 12-17-18 IDOT REVIEW REVISED - 1-30-19 COOK COUNTY
---	-------------	--	---

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES			
SCALE: NONE	SHEET NO.	OF SHEETS	STA. TO STA.

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-000928

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	3
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 61F60				

Code No	Description	Unit	Total Quantity
△ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	215
△ 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	55
△ 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
△ 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,279
△ 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,335
△ 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	106
△ 87502440	TRAFFIC SIGNAL POST, GALVANIZED STEEL 10 FT.	EACH	4
△ 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16
△ 87900200	DRILL EXISTING HANDHOLE	EACH	4
△ 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
△ 88800100	PEDESTRIAN PUSH-BUTTON	EACH	8
△ 89502200	MODIFY EXISTING CONTROLLER	EACH	1
△ A2000120	TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 2½" CALIPER, BALLED AND BURLAPPED	EACH	25
△ A2004514	TREE, GINKGO BILOBA AUTUMN GOLD (AUTUMN GOLD GINKGO), 2½" CALIPER, BALLED AND BURLAPPED	EACH	25
△ A2006420	TREE, QUERCUS ALBA (WHITE OAK), 2½" CALIPER, BALLED AND BURLAPPED	EACH	20
△ C2000348	SHRUB, ARONIA ARBUTIFOLIA (RED CHOKE BERRY), 4' HEIGHT, BALLED AND BURLAPPED	EACH	40
△ C2004548	SHRUB, MYRICA PENSYLVANICA (BAYBERRY), 4' HEIGHT, BALLED AND BURLAPPED	EACH	50
△ C2011848	SHRUB, VIBURNUM DENTATUM MORTON (NORTHERN BURGUNDY ARROWWOOD VIBURNUM), 4' HEIGHT, BALLED AND BURLAPPED	EACH	30
X0301339	REMOVE EXISTING PARKING BLOCKS	EACH	15
X0322936	REMOVE EXISTING FLARED END SECTION	EACH	5
X0323389	STORM SEWER CONNECTION	EACH	5
X0324589	PIPE UNDERDRAIN OUTLET EXTENSION FOR 4" PIPE	EACH	1
X0327487	TRIAxIAL GEOGRID REINFORCEMENT, TYPE I	SQ YD	5,100
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	400
X0358300	REMOVE AND RELAY END SECTIONS	EACH	2
X0795800	COARSE AGGREGATE	TON	230
X1200160	CONNECTION TO EXISTING DRAINAGE STRUCTURE	EACH	6
X2070304	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	400
X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	300
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SQ FT	70

△ SPECIALTY ITEMS

Code No	Description	Unit	Total Quantity
X5420610	PIPE CULVERTS TO BE CLEANED 10"	FOOT	140
X5420612	PIPE CULVERTS TO BE CLEANED 12"	FOOT	190
X5420615	PIPE CULVERTS TO BE CLEANED 15"	FOOT	205
X5537500	STORM SEWER TO BE CLEANED 6"	FOOT	205
X6640300	CHAIN LINK FENCE REMOVAL	FOOT	85
△ XX006464	DOMESTIC WATER SERVICE BOX TO BE ADJUSTED (SPECIAL)	EACH	2
Z0004510	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3"	SQ YD	715
Z0004544	HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL	SQ YD	1,355
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	2
Z0018700	DRAINAGE STRUCTURE TO BE REMOVED	EACH	1
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	60
Z0051500	REMOVING AND RESETTING STREET SIGNS	EACH	20
XX009280	REMOVE AND RELAY STORM SEWER 15"	FOOT	25
XX009281	REBUILD EXISTING HEAVY-DUTY HANDHOLE	EACH	1
XX009282	REBUILD EXISTING DOUBLE HANDHOLE	EACH	1
XX009283	PET WASTE STATION	EACH	8

FILE NAME	CITY OF COUNTRYSIDE	USER NAME =	DESIGNED -- THK	REVISED -- 11-26-18 IDOT REVIEW
	FAU 2704 (BRAINARD AVENUE)		DRAWN -- JFP	REVISED -- 12-03-18 COOK COUNTY
	FAU 3582 (JOLIET ROAD) TO FAP 1504 (56TH STREET)	PLOT SCALE =	CHECKED -- JEF	REVISED -- 12-10-18 COOK COUNTY
#13250	SHARED-USE PATHWAY	PLOT DATE =	DATE -- 10/18	REVISED -- 12-17-18 IDOT REVIEW
				REVISED -- 1-30-19 COOK COUNTY

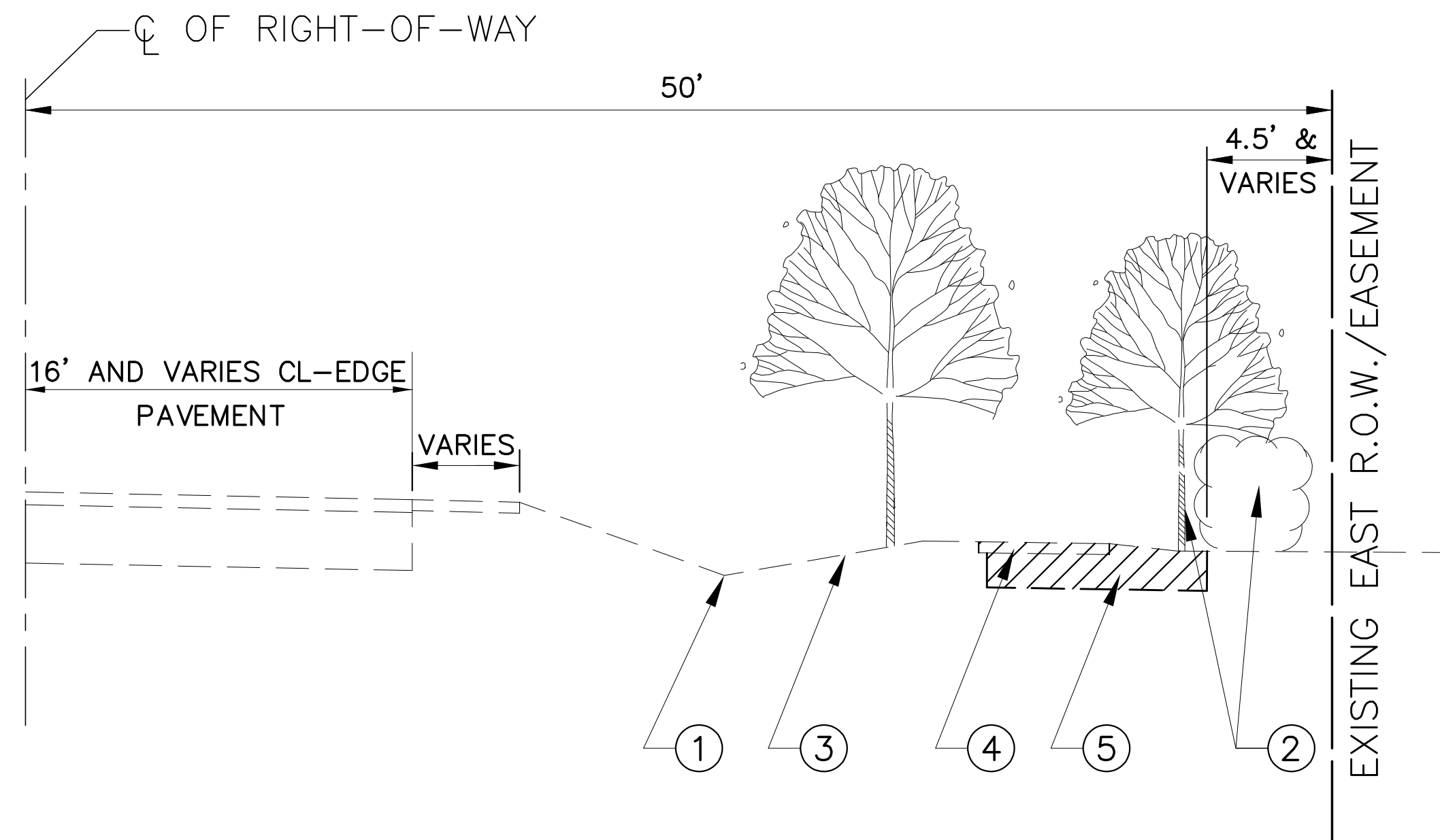
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-000928

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	4
CONTRACT NO. 61F60			ILLINOIS FED. AID PROJECT	



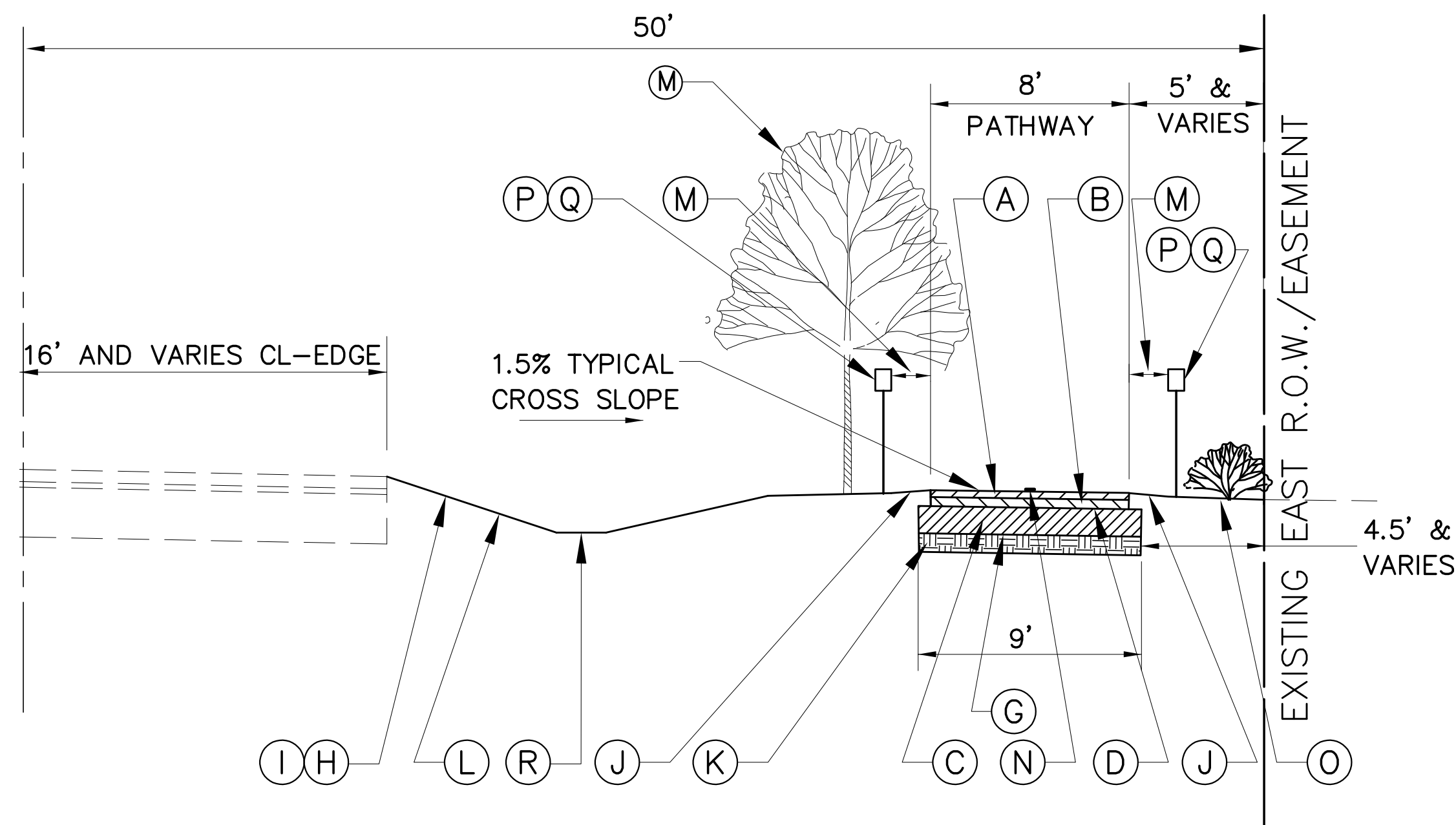
EXISTING TYPICAL SECTION
STA. 0+97 TO STA. 57+94, BRAINARD AVENUE

EXISTING LEGEND

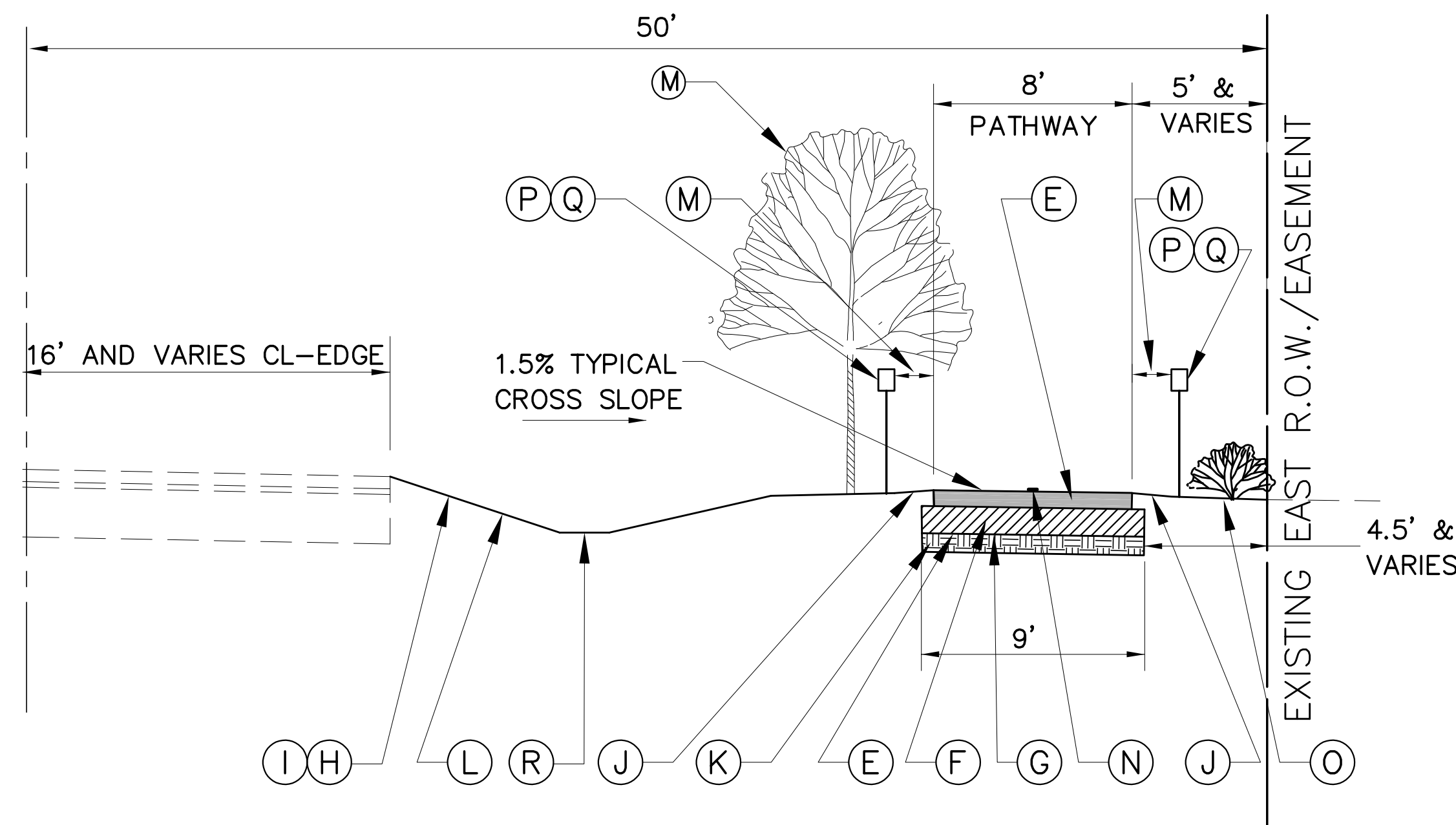
- ① EXISTING DRAINAGE DITCH
 - ② EXISTING TREES, BUSHES, AND UNDER BRUSH TO BE PRUNED OR REMOVED, SEE PLAN SHEETS FOR PLACEMENT
 - ③ PORTLAND CEMENT CONCRETE SIDEWALK, PORTLAND CEMENT CONCRETE DRIVEWAY, HOT-MIX ASPHALT DRIVEWAY, COMBINATION CURB AND GUTTER, OR EXISTING GRASS PARKWAY,
 - ④ PROPOSED "SIDEWALK REMOVAL" AT VARIOUS LOCATIONS
 - ⑤ PROPOSED "EARTH EXCAVATION"
- ▨ INDICATES REMOVAL ITEMS AS APPLICABLE "COMBINATION CURB AND GUTTER REMOVAL", "EARTH EXCAVATION", "DRIVEWAY PAVEMENT REMOVAL", "SIDEWALK REMOVAL" OR "HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL"

PROPOSED LEGEND

- HOT-MIX ASPHALT PATHWAY LOCATIONS:
- Ⓐ PROPOSED "HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50", 1-3/4 INCH
 - Ⓑ PROPOSED "HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50", 2-1/4 INCH
 - Ⓒ PROPOSED "AGGREGATE BASE COURSE, TYPE B", 6 INCH
 - Ⓓ PROPOSED "BITUMINOUS MATERIALS (PRIMECOAT) (0.25 LB./SQ. FT.)
- PORTLAND CEMENT CONCRETE PATHWAY LOCATIONS:
- Ⓔ PROPOSED "PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH
 - Ⓕ PROPOSED "SUBBASE GRANULAR MATERIAL, TYPE B", 4 INCH
- ALL PATHWAY LOCATIONS:
- Ⓖ PROPOSED "TRIAxIAL GEOGRID FOR REINFORCEMENT, TYPE 1"
 - Ⓗ PROPOSED "GRADING & SHAPING DITCHES", AS NECESSARY
 - Ⓘ PROPOSED "TOPSOIL FURNISH AND PLACE, 4 INCH" (ALL DISTURBED AREAS)
 - Ⓝ PROPOSED "SODDING" (ALL DISTURBED AREAS)
 - Ⓚ PROPOSED COMPACTED SUBGRADE
 - Ⓛ PROPOSED 4% MAXIMUM CROSS SLOPE (ADJACENT TO PATH)
 - Ⓜ PROPOSED 3' MINIMUM HORIZONTAL CLEAR ZONE - 10' MINIMUM VERTICAL CLEAR ZONE
 - Ⓝ PROPOSED PATHWAY PAVEMENT MARKING, SEE PLAN SHEETS FOR PLACEMENT
 - Ⓞ PROPOSED TREE AND SHRUB PLANTING, SEE PLAN SHEETS FOR PLACEMENT
 - Ⓟ PROPOSED PATHWAY SIGNING, SEE PLAN SHEETS FOR PLACEMENT
 - Ⓠ PROPOSED MINIMUM CLEARANCE FOR SIGN PLACEMENT SHALL BE 2' OFF EDGE OF PATHWAY TO INSIDE EDGE OF SIGN
 - Ⓡ PROPOSED DITCH BOTTOMS SHALL BE 2' WIDE



PROPOSED TYPICAL SECTION
HOT-MIX ASPHALT
STA. 0+97 TO STA. 57+94 BRAINARD AVENUE



PROPOSED TYPICAL SECTION
PORTLAND CEMENT CONCRETE
STA. 0+97 TO STA. 57+94 BRAINARD AVENUE

NOTE:
FOR ADA COMPLIANCE:
MAXIMUM PATHWAY AND SIDEWALK CROSS SLOPES=2%
MAXIMUM PATHWAY AND SIDEWALK LONGITUDINAL SLOPE=5%

IMPORTANT!

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES.
REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-000928

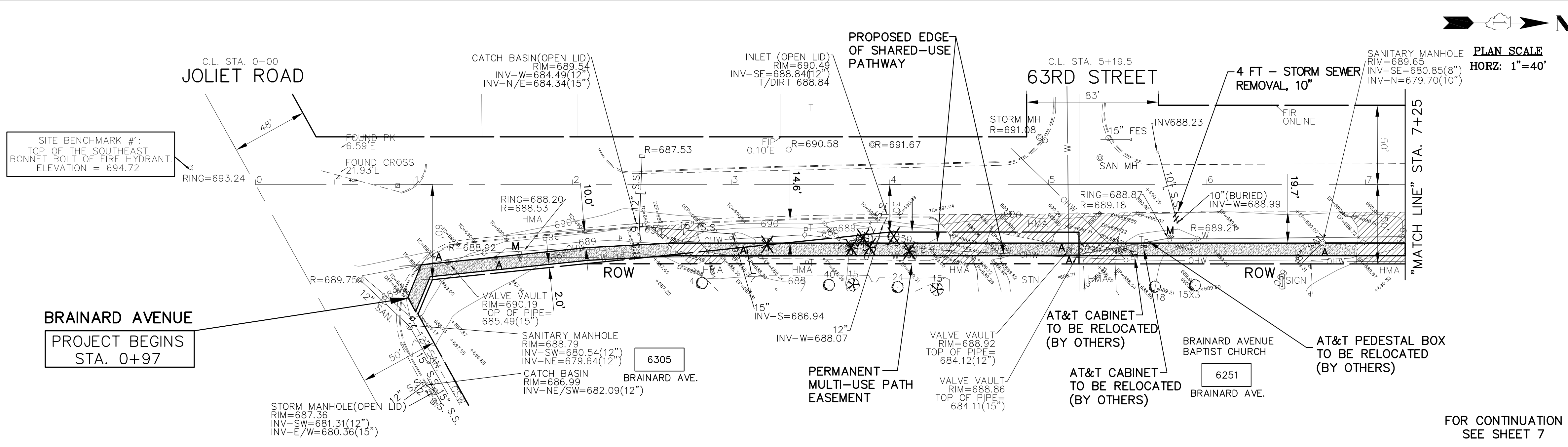
FILE NAME CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET) #13250 SHARED-USE PATHWAY	USER NAME =	DESIGNED -- THK DRAWN -- JFP CHECKED -- JEF DATE -- 10/18	REVISED -- 11-26-18 IDOT REVIEW REVISED -- 12-03-18 COOK COUNTY REVISED -- 12-10-18 COOK COUNTY REVISED -- 12-17-18 IDOT REVIEW REVISED -- 1-30-19 COOK COUNTY
---	-------------	--	--

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: 1"=5' SHEET NO. OF SHEETS STA. TO STA.

F.A.U. R.T.E. 2704	SECTION 14-00041-00-BT	COUNTY COOK	TOTAL SHEETS 47	SHEET NO. 5
CONTRACT NO. 61F60			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	



EXISTING AND REMOVAL

- EXISTING GRADING, DRAINAGE, AND UTILITY LEGEND**
- DENOTES STORM SEWER REMOVAL/CULVERT REMOVAL
 - ⊗ "M" DENOTES EXISTING FIRE HYDRANT AND VALVE TO BE MOVED
 - ⊕ "R" DENOTES EXISTING TRAFFIC SIGNS & POSTS TO BE RELOCATED
 - ⊖ "R" DENOTES EXISTING MAILBOXES TO BE RELOCATED
 - "R" DENOTES REMOVING CATCH BASINS
 - "R" DENOTES REMOVING INLETS
 - ◁ "A" DENOTES EXISTING END SECTION TO BE REMOVED
 - "CL" DENOTES EXISTING DRAINAGE STRUCTURE TO BE CLEANED
 - "A" DENOTES EXISTING CATCH BASINS TO BE ADJUSTED
 - ⊙ "A" DENOTES EXISTING MANHOLES TO BE ADJUSTED
 - ⊖ "A" DENOTES EXISTING INLETS TO BE ADJUSTED
 - ⊙ "A" DENOTES EXISTING VALVE VAULTS TO BE ADJUSTED
 - ⊗ "A" DENOTES EXISTING VALVE BOXES TO BE ADJUSTED
 - △ "A" DENOTES EXISTING DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED
 - △ "S" DENOTES EXISTING DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED (SPECIAL)
 - ⊖ "A" DENOTES EXISTING HANDHOLE TO BE ADJUSTED
 - ⊖ "S" DENOTES EXISTING DOUBLE HANDHOLE (SPECIAL)
 - ⊖ "S" DENOTES EXISTING FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
 - ⊖ "S" DENOTES EXISTING TREE REMOVAL (SIZE IN INCHES AS NOTED)

- EXISTING REMOVAL LEGEND**
- ▨ DENOTES EARTH EXCAVATION
 - ▨ DENOTES HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL
 - ▨ DENOTES SIDEWALK REMOVAL
 - ▨ DENOTES CONCRETE MEDIAN SURFACE REMOVAL
 - 8 FT DENOTES COMBINATION CURB AND GUTTER REMOVAL

- PROPOSED GRADING, DRAINAGE, AND UTILITY LEGEND**
- DENOTES PROPOSED STORM SEWER/CULVERT
 - DENOTES PROPOSED RELAYED STORM SEWER
 - DENOTES PROPOSED GRADING AND SHAPING DITCHES (WITH FLOW DIRECTION ARROW)
 - DENOTES DRAINAGE DIRECTION
 - DENOTES PROPOSED PRECAST REINFORCED CONCRETE FLARED END SECTION (SIZE AS NOTED)
 - DENOTES REMOVE AND RELAY END SECTION (SIZE AS NOTED)
 - DENOTES PROPOSED CATCH BASIN
 - DENOTES PROPOSED RELOCATED FIRE HYDRANT
 - DENOTES PROPOSED RELOCATED MAILBOX
 - "PE" DENOTES PRIVATE ENTRANCE
 - "CE" DENOTES COMMERCIAL ENTRANCE

EROSION CONTROL NOTE
 PROVIDE TEMPORARY EROSION CONTROL (DRAINAGE STRUCTURE INLET FILTERS) AT ALL OPEN DRAINAGE STRUCTURES FROM EDGE OF PAVEMENT TO RIGHT-OF-WAY/EASEMENT, OR AT THE DIRECTION OF THE ENGINEER.

- EROSION CONTROL LEGEND**
- * DENOTES INLET FILTERS
 - SF DENOTES SILT FENCE
 - DENOTES INLET AND PIPE PROTECTION

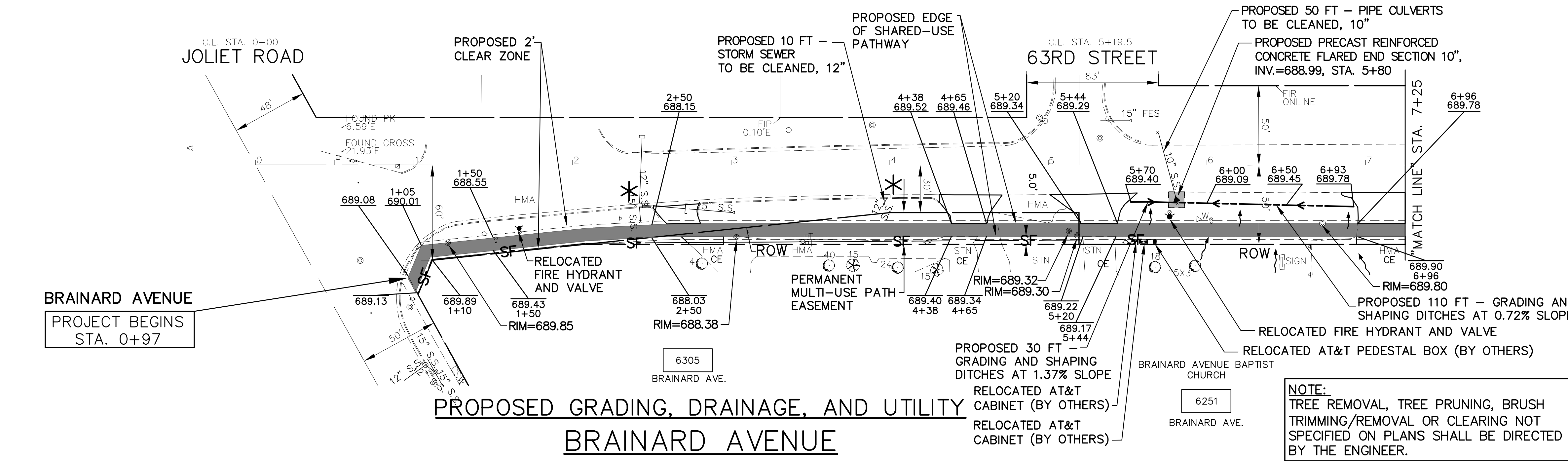
NOTE:
 IF EXISTING STORM SEWER IS ABANDONED AND NOT REMOVED, THEN SEWER PIPE SHALL BE PLUGGED AT BOTH ENDS WITH 2 FEET OF CONCRETE/MORTAR PLUG.

- STORM SEWER NOTES**
- ALL RCCP STORM SEWERS SHALL HAVE O-RING JOINT CONFORMING WITH ASTM C-443.
 - ALL PROPOSED CONNECTIONS TO EXISTING CATCH BASINS OR MANHOLES SHALL BE CORED AND A WATERPROOF BOOT INSTALLED
 - ALL TRENCH BACKFILL MATERIALS SHALL BE FA-6



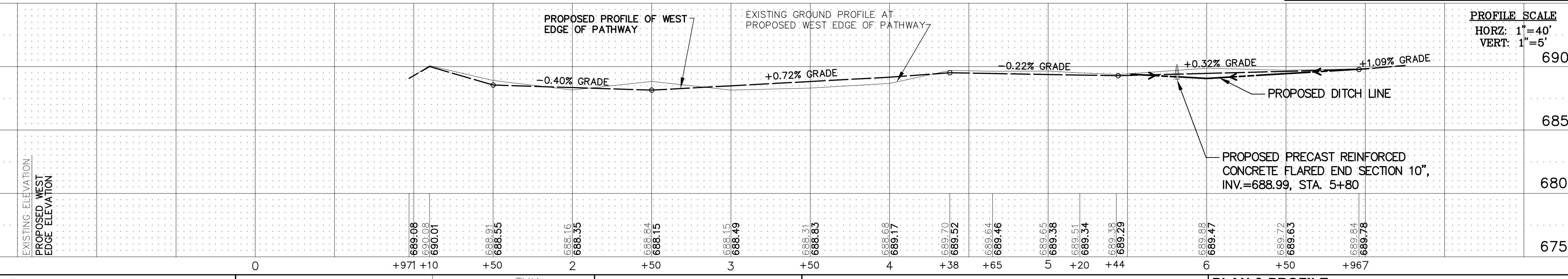
IMPORTANT!
 FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

NOVOTNY ENGINEERING
 545 Plainfield Road, Suite A
 Willowbrook, IL 60527
 T: (630) 887.8640
 F: (630) 887.0132
 Illinois Professional Design Firm No. 184-000928



PROPOSED GRADING, DRAINAGE, AND UTILITY BRAINARD AVENUE

NOTE:
 TREE REMOVAL, TREE PRUNING, BRUSH TRIMMING/REMOVAL OR CLEARING NOT SPECIFIED ON PLANS SHALL BE DIRECTED BY THE ENGINEER.



FILE NAME: CITY OF COUNTRYSIDE
 FAU 2704 (BRAINARD AVENUE)
 FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET)
 SHARED-USE PATHWAY

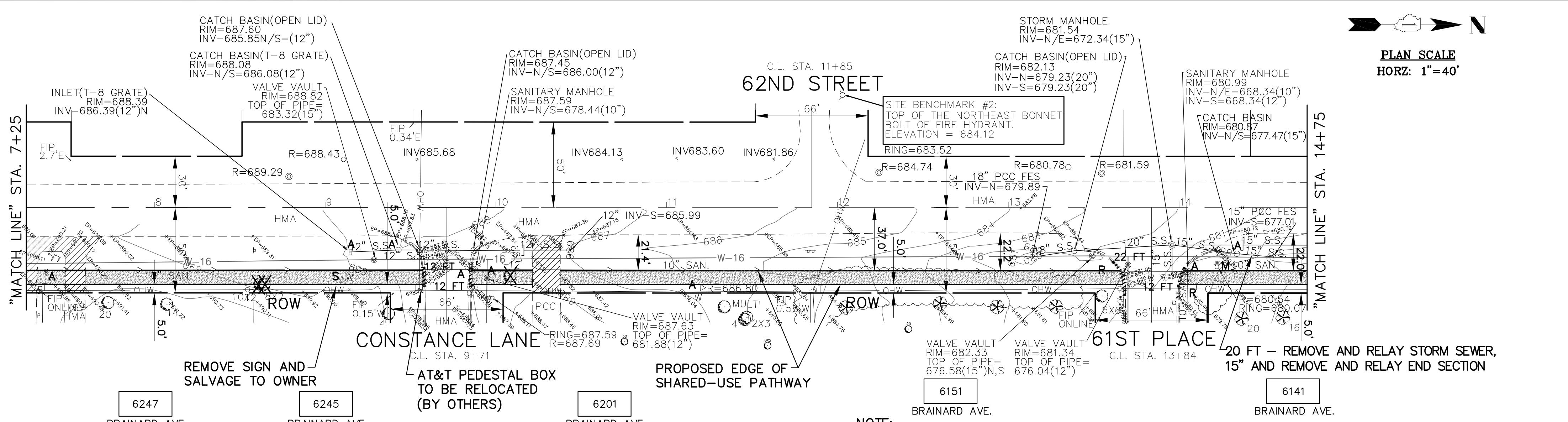
USER NAME =
 DESIGNED = THK
 DRAWN = JFP
 CHECKED = JEF
 DATE = 10/18

REVISED = 11-26-18 IDOT REVIEW
 REVISED = 12-03-18 COOK COUNTY
 REVISED = 12-10-18 COOK COUNTY
 REVISED = 12-17-18 IDOT REVIEW
 REVISED = 1-30-19 COOK COUNTY

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN & PROFILE:
 BRAINARD AVENUE - (SHARED-USE PATHWAY) FAU 3562 (JOLIET ROAD) TO STA. 7+25
 (EXISTING & PROPOSED GRADING, DRAINAGE, AND UTILITY PLAN)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	6
CONTRACT NO. 61F60				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- EXISTING GRADING, DRAINAGE, AND UTILITY LEGEND**
- DENOTES STORM SEWER REMOVAL/CULVERT REMOVAL
 - ⊕ "M" DENOTES EXISTING FIRE HYDRANT AND VALVE TO BE MOVED
 - ⊕ "R" DENOTES EXISTING TRAFFIC SIGNS & POSTS TO BE RELOCATED
 - ⊕ "R" DENOTES EXISTING MAILBOXES TO BE RELOCATED
 - ⊕ "R" DENOTES REMOVING CATCH BASINS
 - ⊕ "R" DENOTES REMOVING INLETS
 - ⊕ "A" DENOTES EXISTING END SECTION TO BE REMOVED
 - ⊕ "CL" DENOTES EXISTING DRAINAGE STRUCTURE TO BE CLEANED
 - ⊕ "A" DENOTES EXISTING CATCH BASINS TO BE ADJUSTED
 - ⊕ "A" DENOTES EXISTING MANHOLES TO BE ADJUSTED
 - ⊕ "A" DENOTES EXISTING INLETS TO BE ADJUSTED
 - ⊕ "A" DENOTES EXISTING VALVE VAULTS TO BE ADJUSTED
 - ⊕ "A" DENOTES EXISTING VALVE BOXES TO BE ADJUSTED
 - ⊕ "A" DENOTES EXISTING DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED
 - ⊕ "S" DENOTES EXISTING DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED (SPECIAL)
 - ⊕ "A" DENOTES EXISTING HANDHOLE TO BE ADJUSTED
 - ⊕ "S" DENOTES EXISTING DOUBLE HANDHOLE (SPECIAL)
 - ⊕ "S" DENOTES EXISTING FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
 - ⊕ "S" DENOTES EXISTING TREE REMOVAL (SIZE IN INCHES AS NOTED)

- EXISTING REMOVAL LEGEND**
- DENOTES EARTH EXCAVATION
 - DENOTES HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL
 - DENOTES SIDEWALK REMOVAL
 - DENOTES CONCRETE MEDIAN SURFACE REMOVAL
 - 8 FT DENOTES COMBINATION CURB AND GUTTER REMOVAL

- PROPOSED GRADING, DRAINAGE, AND UTILITY LEGEND**
- DENOTES PROPOSED STORM SEWER/CULVERT
 - DENOTES PROPOSED RELAYED STORM SEWER
 - DENOTES PROPOSED GRADING AND SHAPING DITCHES (WITH FLOW DIRECTION ARROW)
 - DENOTES DRAINAGE DIRECTION
 - DENOTES PROPOSED PRECAST REINFORCED CONCRETE FLARED END SECTION (SIZE AS NOTED)
 - DENOTES REMOVE AND RELAY END SECTION (SIZE AS NOTED)
 - DENOTES PROPOSED CATCH BASIN
 - DENOTES PROPOSED RELOCATED FIRE HYDRANT
 - DENOTES PROPOSED RELOCATED MAILBOX
 - "PE" DENOTES PRIVATE ENTRANCE
 - "CE" DENOTES COMMERCIAL ENTRANCE

EROSION CONTROL NOTE
 PROVIDE TEMPORARY EROSION CONTROL (DRAINAGE STRUCTURE INLET FILTERS) AT ALL OPEN DRAINAGE STRUCTURES FROM EDGE OF PAVEMENT TO RIGHT-OF-WAY/EASEMENT, OR AT THE DIRECTION OF THE ENGINEER.

- EROSION CONTROL LEGEND**
- * DENOTES INLET FILTERS
 - SF DENOTES SILT FENCE
 - DENOTES INLET AND PIPE PROTECTION

NOTE:
 IF EXISTING STORM SEWER IS ABANDONED AND NOT REMOVED, THEN SEWER PIPE SHALL BE PLUGGED AT BOTH ENDS WITH 2 FEET OF CONCRETE/MORTAR PLUG.

- STORM SEWER NOTES**
- 1.) ALL RCCP STORM SEWERS SHALL HAVE O-RING JOINT CONFORMING WITH ASTM C-443.
 - 2.) ALL PROPOSED CONNECTIONS TO EXISTING CATCH BASINS OR MANHOLES SHALL BE CORED AND A WATERPROOF BOOT INSTALLED
 - 3.) ALL TRENCH BACKFILL MATERIALS SHALL BE FA-6



IMPORTANT!
 FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

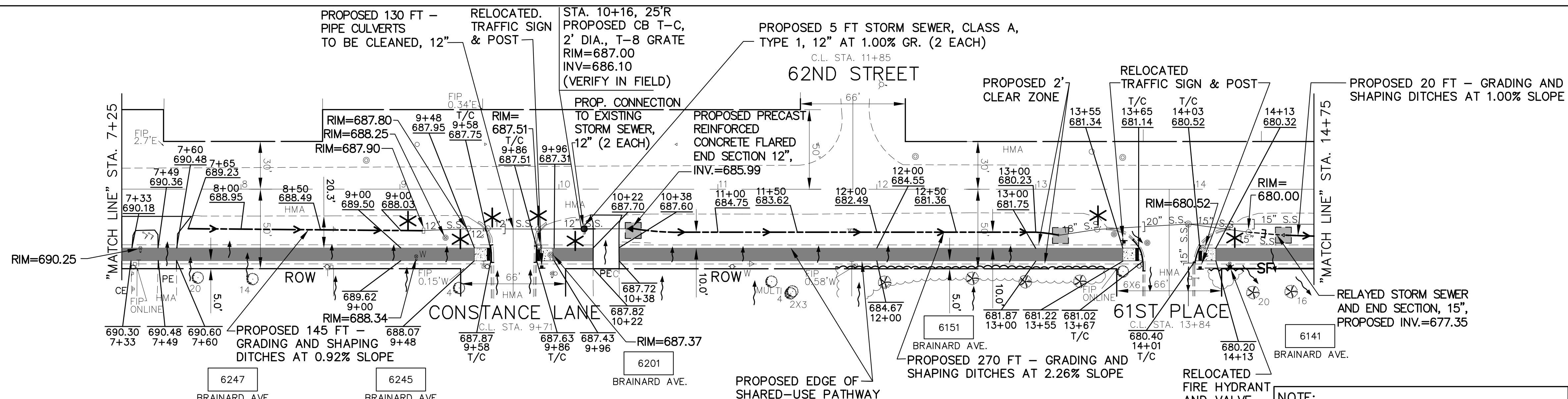
NOVOTNY ENGINEERING
 545 Plainfield Road, Suite A
 Willowbrook, IL 60527
 T: (630) 887.8640
 F: (630) 887.0132
 Illinois Professional Design Firm No. 184-000928

FOR CONTINUATION
 SEE SHEET 6

FOR CONTINUATION
 SEE SHEET 8

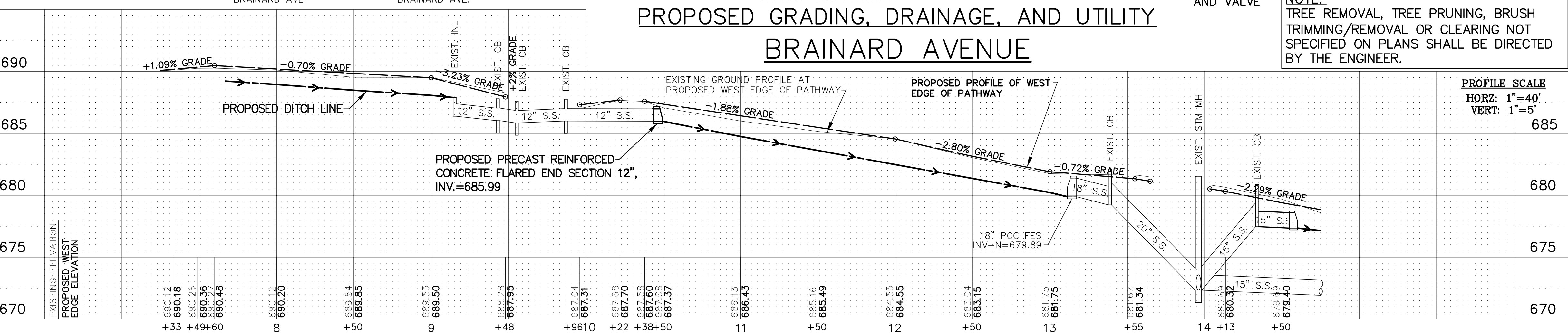
NOTE:
 TREE REMOVAL, TREE PRUNING, TREE ROOT PRUNING OR BRUSH REMOVAL AS REQUIRED TO ALLOW FOR PATHWAY CONSTRUCTION, 4' MINIMUM OFF EDGE OF PATHWAY (STA. 11+70 TO STA. 13+65) AND (AT STA. 14+18)

EXISTING AND REMOVAL



**PROPOSED GRADING, DRAINAGE, AND UTILITY
 BRAINARD AVENUE**

NOTE:
 TREE REMOVAL, TREE PRUNING, BRUSH TRIMMING/REMOVAL OR CLEARING NOT SPECIFIED ON PLANS SHALL BE DIRECTED BY THE ENGINEER.



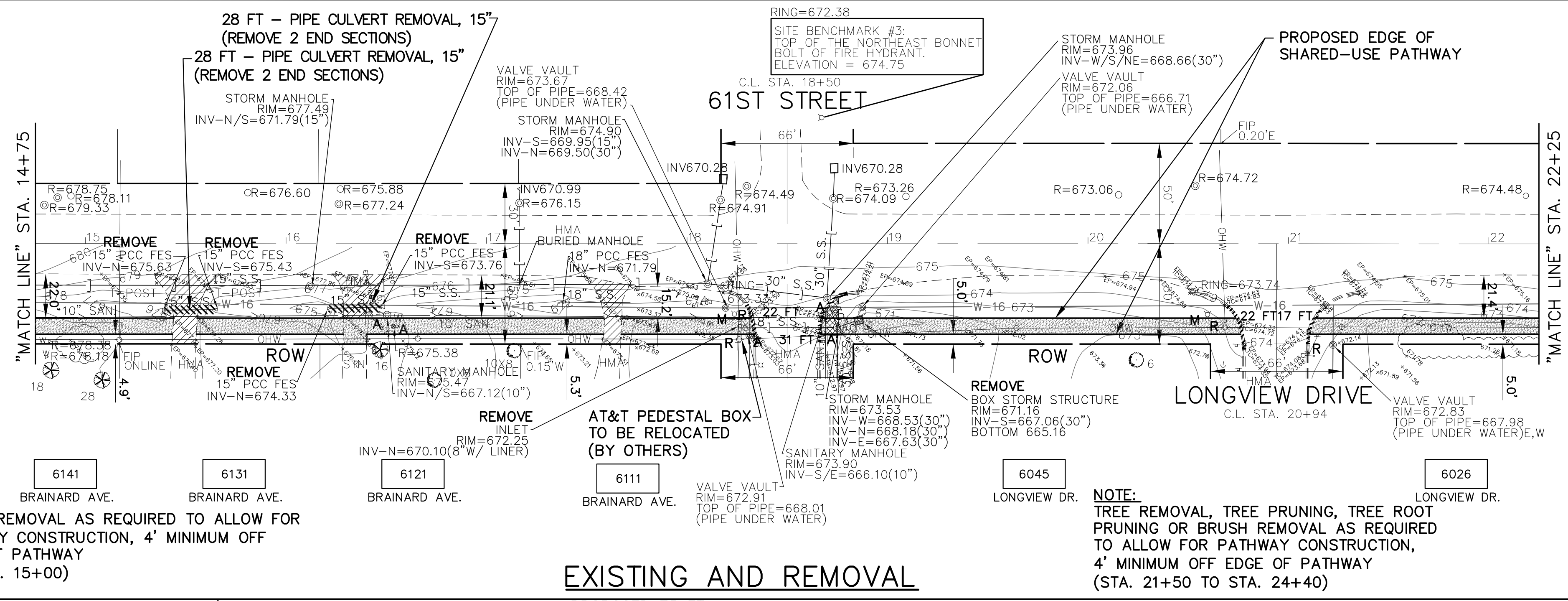
FILE NAME	CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET) SHARED-USE PATHWAY
USER NAME	=
PLOT SCALE	=
PLOT DATE	=

DESIGNED	THK	REVISOR	11-26-18	REVIEW	IDOT
DRAWN	JFP	REVISOR	12-03-18	REVIEW	COOK COUNTY
CHECKED	JEF	REVISOR	12-10-18	REVIEW	COOK COUNTY
DATE	10/18	REVISOR	12-17-18	REVIEW	IDOT
		REVISOR	1-30-19	REVIEW	COOK COUNTY

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN & PROFILE: BRAINARD AVENUE - (SHARED-USE PATHWAY) STA. 7+25 TO STA. 14+75 (EXISTING & PROPOSED GRADING, DRAINAGE, AND UTILITY PLAN)
SCALE: AS NOTED SHEET NO. 6 OF 44 SHEETS STA. 7+25 TO STA. 14+75

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	7
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 61F60		



PLAN SCALE
HORZ: 1"=40'

- EXISTING GRADING, DRAINAGE, AND UTILITY LEGEND**
- DENOTES STORM SEWER REMOVAL/CULVERT REMOVAL
 - ⊕ DENOTES EXISTING FIRE HYDRANT AND VALVE TO BE MOVED
 - ⊕ DENOTES EXISTING TRAFFIC SIGNS & POSTS TO BE RELOCATED
 - ⊕ DENOTES EXISTING MAILBOXES TO BE RELOCATED
 - DENOTES EXISTING REMOVING CATCH BASINS
 - DENOTES REMOVING INLETS
 - ◁ DENOTES EXISTING END SECTION TO BE REMOVED
 - "CL" DENOTES EXISTING DRAINAGE STRUCTURE TO BE CLEANED
 - DENOTES EXISTING CATCH BASINS TO BE ADJUSTED
 - ⊕ DENOTES EXISTING MANHOLES TO BE ADJUSTED
 - ⊕ DENOTES EXISTING INLETS TO BE ADJUSTED
 - ⊕ DENOTES EXISTING VALVE VAULTS TO BE ADJUSTED
 - ⊕ DENOTES EXISTING VALVE BOXES TO BE ADJUSTED
 - △ DENOTES EXISTING DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED
 - △ DENOTES EXISTING DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED (SPECIAL)
 - ⊕ DENOTES EXISTING HANDHOLE TO BE ADJUSTED
 - ⊕ DENOTES EXISTING DOUBLE HANDHOLE (SPECIAL)
 - ⊕ DENOTES EXISTING FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
 - ⊕ DENOTES TREE REMOVAL (SIZE IN INCHES AS NOTED)

- EXISTING REMOVAL LEGEND**
- ▨ DENOTES EARTH EXCAVATION
 - ▨ DENOTES HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL
 - ▨ DENOTES SIDEWALK REMOVAL
 - ▨ DENOTES CONCRETE MEDIAN SURFACE REMOVAL
 - 8 FT DENOTES COMBINATION CURB AND GUTTER REMOVAL

- PROPOSED GRADING, DRAINAGE, AND UTILITY LEGEND**
- DENOTES PROPOSED STORM SEWER/CULVERT
 - DENOTES PROPOSED RELAYED STORM SEWER
 - DENOTES PROPOSED GRADING AND SHAPING DITCHES (WITH FLOW DIRECTION ARROW)
 - DENOTES DRAINAGE DIRECTION
 - DENOTES PROPOSED PRECAST REINFORCED CONCRETE FLARED END SECTION (SIZE AS NOTED)
 - DENOTES REMOVE AND RELAY END SECTION (SIZE AS NOTED)
 - DENOTES PROPOSED CATCH BASIN
 - DENOTES PROPOSED RELOCATED FIRE HYDRANT
 - DENOTES PROPOSED RELOCATED MAILBOX
 - "PE" DENOTES PRIVATE ENTRANCE
 - "CE" DENOTES COMMERCIAL ENTRANCE

EROSION CONTROL NOTE
PROVIDE TEMPORARY EROSION CONTROL (DRAINAGE STRUCTURE INLET FILTERS) AT ALL OPEN DRAINAGE STRUCTURES FROM EDGE OF PAVEMENT TO RIGHT-OF-WAY/EASEMENT, OR AT THE DIRECTION OF THE ENGINEER.

- EROSION CONTROL LEGEND**
- * DENOTES INLET FILTERS
 - SF--- DENOTES SILT FENCE
 - DENOTES INLET AND PIPE PROTECTION

NOTE:
IF EXISTING STORM SEWER IS ABANDONED AND NOT REMOVED, THEN SEWER PIPE SHALL BE PLUGGED AT BOTH ENDS WITH 2 FEET OF CONCRETE/MORTAR PLUG.

- STORM SEWER NOTES**
- 1.) ALL RCCP STORM SEWERS SHALL HAVE O-RING JOINT CONFORMING WITH ASTM C-443.
 - 2.) ALL PROPOSED CONNECTIONS TO EXISTING CATCH BASINS OR MANHOLES SHALL BE CORED AND A WATERPROOF BOOT INSTALLED
 - 3.) ALL TRENCH BACKFILL MATERIALS SHALL BE FA-6



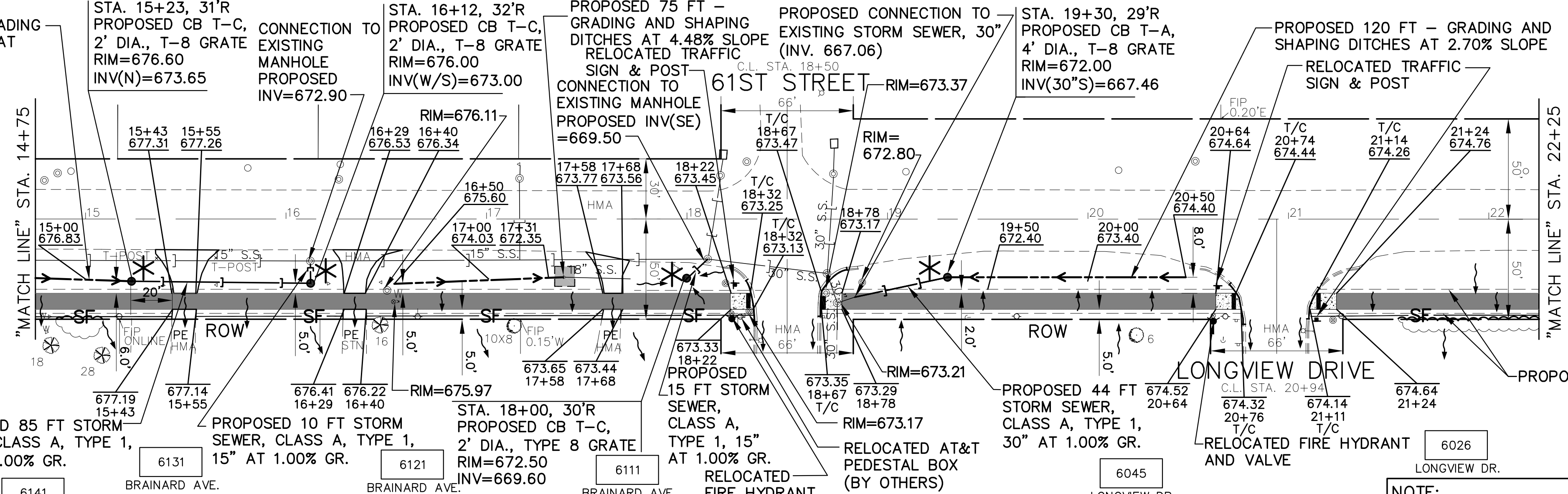
IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-000928

FOR CONTINUATION
SEE SHEET 7

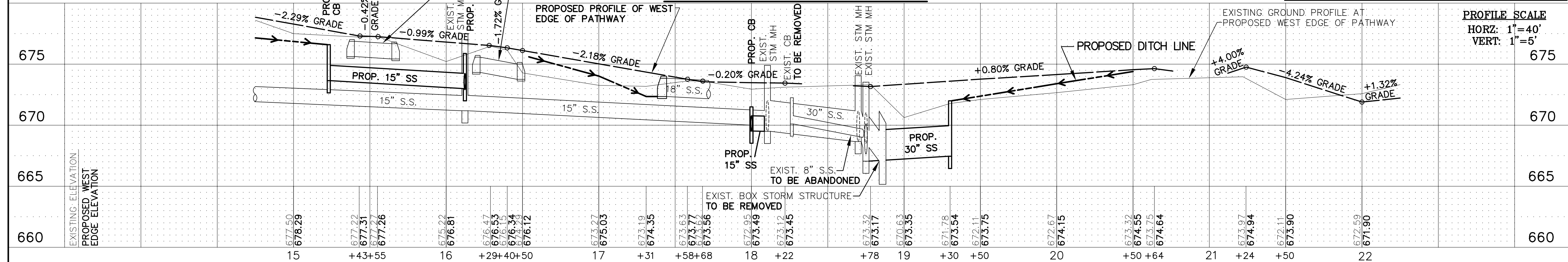
FOR CONTINUATION
SEE SHEET 9

EXISTING AND REMOVAL



NOTE:
TREE REMOVAL, TREE PRUNING, BRUSH TRIMMING/REMOVAL OR CLEARING NOT SPECIFIED ON PLANS SHALL BE DIRECTED BY THE ENGINEER.

**PROPOSED GRADING, DRAINAGE, AND UTILITY
BRAINARD AVENUE**



PROFILE SCALE
HORZ: 1"=40'
VERT: 1"=5'

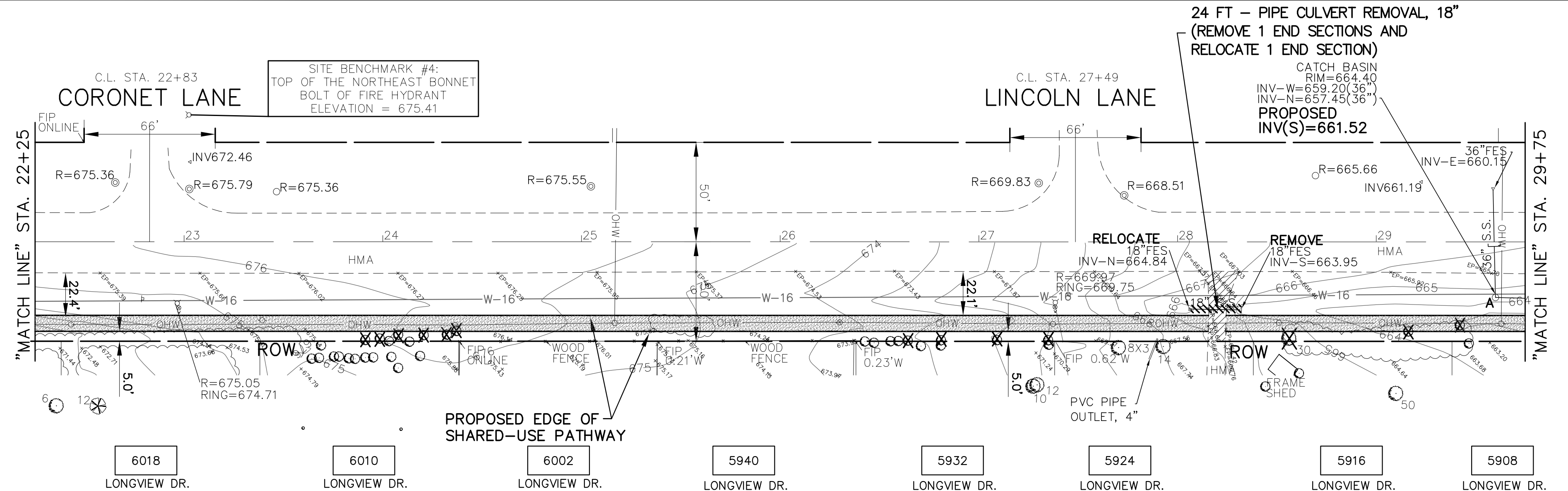
FILE NAME: CITY OF COUNTRYSIDE
FAU 2704 (BRAINARD AVENUE)
FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET)
SHARED-USE PATHWAY

USER NAME =	DESIGNED - THK	REVISED - 11-26-18	IDOT REVIEW
DRAWN - JFP	REVISOR - 12-03-18	COOK COUNTY	
CHECKED - JEF	REVISOR - 12-10-18	COOK COUNTY	
DATE - 10/18	REVISOR - 12-17-18	IDOT REVIEW	
	REVISOR - 1-30-19	COOK COUNTY	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE:
BRAINARD AVENUE - (SHARED-USE PATHWAY) STA. 14+75 TO STA. 22+25
(EXISTING & PROPOSED GRADING, DRAINAGE, AND UTILITY PLAN)
SCALE: AS NOTED SHEET NO. 7 OF 44 SHEETS STA. 14+75 TO STA. 22+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	8
CONTRACT NO. 61F60				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



- EXISTING GRADING, DRAINAGE, AND UTILITY LEGEND**
- DENOTES STORM SEWER REMOVAL/CULVERT REMOVAL
 - DENOTES EXISTING FIRE HYDRANT AND VALVE TO BE MOVED
 - DENOTES EXISTING TRAFFIC SIGNS & POSTS TO BE RELOCATED
 - DENOTES EXISTING MAILBOXES TO BE RELOCATED
 - DENOTES REMOVING CATCH BASINS
 - DENOTES REMOVING INLETS
 - ◁ DENOTES EXISTING END SECTION TO BE REMOVED
 - CL DENOTES EXISTING DRAINAGE STRUCTURE TO BE CLEANED
 - DENOTES EXISTING CATCH BASINS TO BE ADJUSTED
 - ⊙ DENOTES EXISTING MANHOLES TO BE ADJUSTED
 - DENOTES EXISTING INLETS TO BE ADJUSTED
 - ⊙ DENOTES EXISTING VALVE VAULTS TO BE ADJUSTED
 - ⊙ DENOTES EXISTING VALVE BOXES TO BE ADJUSTED
 - △ DENOTES EXISTING DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED
 - △ DENOTES EXISTING DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED (SPECIAL)
 - ⊙ DENOTES EXISTING HANDHOLE TO BE ADJUSTED
 - ⊙ DENOTES EXISTING DOUBLE HANDHOLE (SPECIAL)
 - ⊙ DENOTES EXISTING FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
 - ⊙ DENOTES TREE REMOVAL (SIZE IN INCHES AS NOTED)

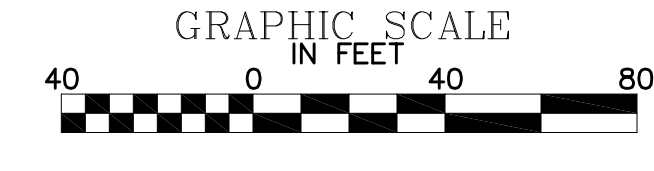
- EXISTING REMOVAL LEGEND**
- DENOTES EARTH EXCAVATION
 - DENOTES HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL
 - DENOTES SIDEWALK REMOVAL
 - DENOTES CONCRETE MEDIAN SURFACE REMOVAL
 - 8 FT DENOTES COMBINATION CURB AND GUTTER REMOVAL

- PROPOSED GRADING, DRAINAGE, AND UTILITY LEGEND**
- DENOTES PROPOSED STORM SEWER/CULVERT
 - DENOTES PROPOSED RELAYED STORM SEWER
 - DENOTES PROPOSED GRADING AND SHAPING DITCHES (WITH FLOW DIRECTION ARROW)
 - DENOTES DRAINAGE DIRECTION
 - DENOTES PROPOSED PRECAST REINFORCED CONCRETE FLARED END SECTION (SIZE AS NOTED)
 - DENOTES REMOVE AND RELAY END SECTION (SIZE AS NOTED)
 - DENOTES PROPOSED CATCH BASIN
 - DENOTES PROPOSED RELOCATED FIRE HYDRANT
 - DENOTES PROPOSED RELOCATED MAILBOX
 - PE DENOTES PRIVATE ENTRANCE
 - CE DENOTES COMMERCIAL ENTRANCE

- EROSION CONTROL NOTE**
- PROVIDE TEMPORARY EROSION CONTROL (DRAINAGE STRUCTURE INLET FILTERS) AT ALL OPEN DRAINAGE STRUCTURES FROM EDGE OF PAVEMENT TO RIGHT-OF-WAY/EASEMENT, OR AT THE DIRECTION OF THE ENGINEER.
- EROSION CONTROL LEGEND**
- * DENOTES INLET FILTERS
 - SF DENOTES SILT FENCE
 - DENOTES INLET AND PIPE PROTECTION

NOTE:
IF EXISTING STORM SEWER IS ABANDONED AND NOT REMOVED, THEN SEWER PIPE SHALL BE PLUGGED AT BOTH ENDS WITH 2 FEET OF CONCRETE/MORTAR PLUG.

- STORM SEWER NOTES**
- ALL RCCP STORM SEWERS SHALL HAVE O-RING JOINT CONFORMING WITH ASTM C-443.
 - ALL PROPOSED CONNECTIONS TO EXISTING CATCH BASINS OR MANHOLES SHALL BE CORED AND A WATERPROOF BOOT INSTALLED
 - ALL TRENCH BACKFILL MATERIALS SHALL BE FA-6



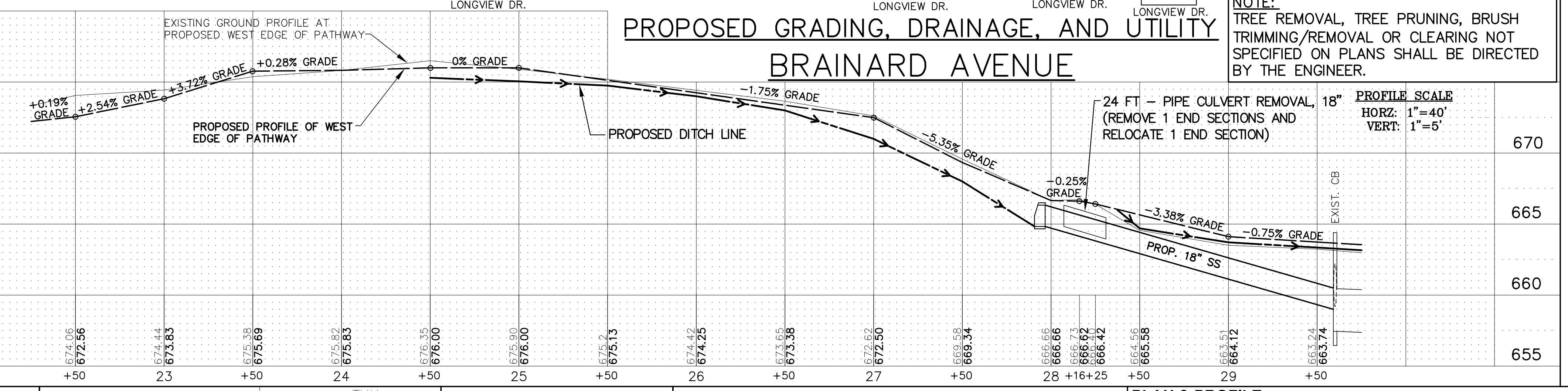
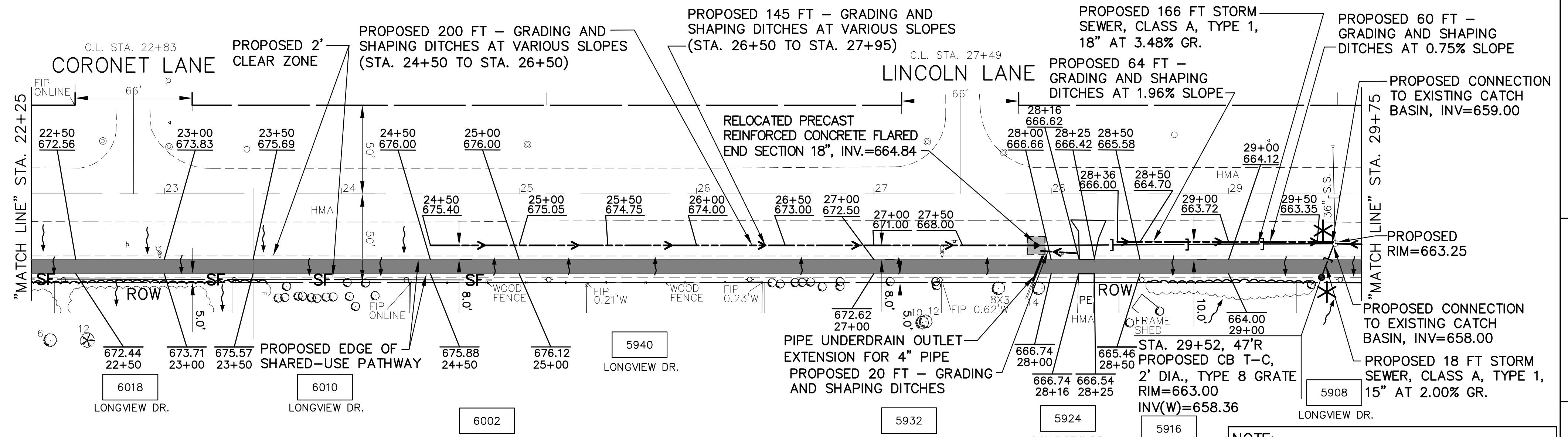
IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-00928

NOTE:
TREE REMOVAL, TREE PRUNING, TREE ROOT PRUNING OR BRUSH REMOVAL AS REQUIRED TO ALLOW FOR PATHWAY CONSTRUCTION, 4' MINIMUM OFF EDGE OF PATHWAY (STA. 21+50 TO STA. 24+40)

NOTE:
TREE, SHRUB AND BRUSH REMOVAL AS REQUIRED TO ALLOW FOR PATHWAY CONSTRUCTION (AT STA. 25+50)

NOTE:
TREE REMOVAL, TREE PRUNING, TREE ROOT PRUNING OR BRUSH REMOVAL AS REQUIRED TO ALLOW FOR PATHWAY CONSTRUCTION, 4' MINIMUM OFF EDGE OF PATHWAY (STA. 28+50 TO STA. 29+50)



NOTE:
TREE REMOVAL, TREE PRUNING, BRUSH TRIMMING/REMOVAL OR CLEARING NOT SPECIFIED ON PLANS SHALL BE DIRECTED BY THE ENGINEER.

PROFILE SCALE
HORZ: 1"=40'
VERT: 1"=5'

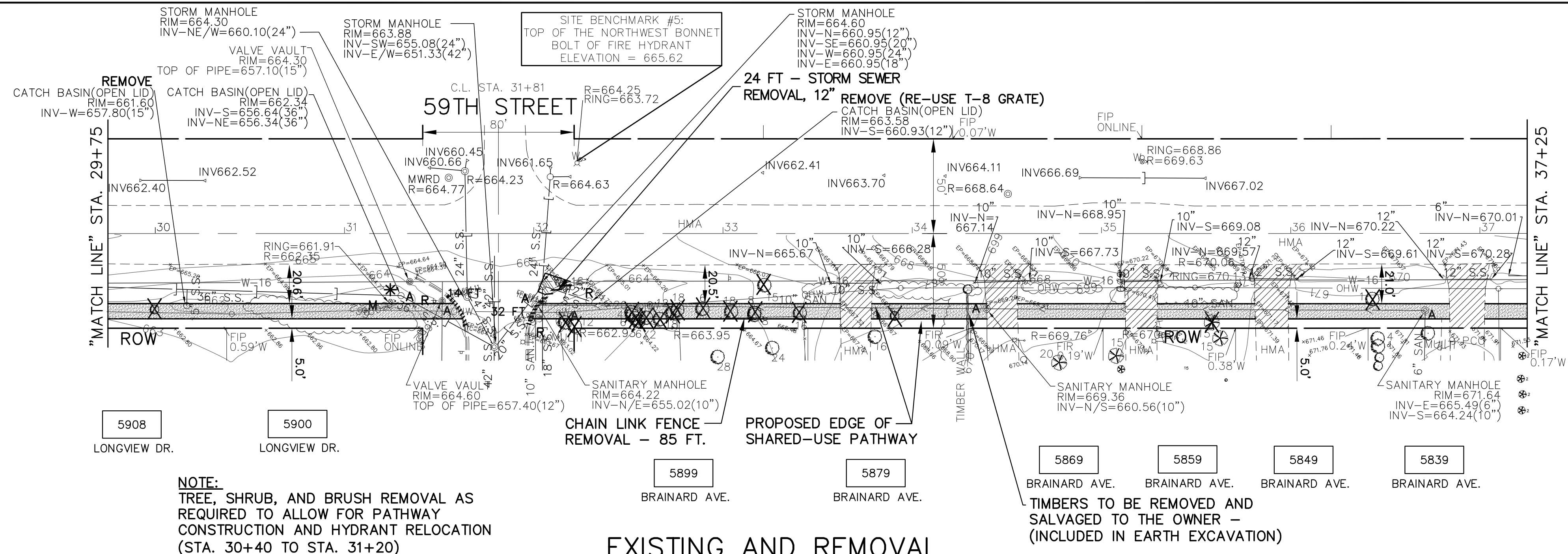
FILE NAME: CITY OF COUNTRYSIDE
FAU 2704 (BRAINARD AVENUE)
FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET)
SHARED-USE PATHWAY

USER NAME =	DESIGNED - THK	REVISIONS
PLOT SCALE =	DRAWN - JFP	11-26-18 IDOT REVIEW
PLOT DATE =	CHECKED - JEF	12-03-18 COOK COUNTY
	DATE - 10/18	12-10-18 COOK COUNTY
		12-17-18 IDOT REVIEW
		1-30-19 COOK COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE:
BRAINARD AVENUE - (SHARED-USE PATHWAY) STA. 22+75 TO STA. 29+25
(EXISTING & PROPOSED GRADING, DRAINAGE, AND UTILITY PLAN)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	9
CONTRACT NO. 61F60				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



- EXISTING GRADING, DRAINAGE, AND UTILITY LEGEND**
- DENOTES STORM SEWER REMOVAL/CULVERT REMOVAL
 - DENOTES EXISTING FIRE HYDRANT AND VALVE TO BE MOVED
 - DENOTES EXISTING TRAFFIC SIGNS & POSTS TO BE RELOCATED
 - DENOTES EXISTING MAILBOXES TO BE RELOCATED
 - DENOTES REMOVING CATCH BASINS
 - DENOTES REMOVING INLETS
 - DENOTES EXISTING END SECTION TO BE REMOVED
 - DENOTES EXISTING DRAINAGE STRUCTURE TO BE CLEANED
 - DENOTES EXISTING CATCH BASINS TO BE ADJUSTED
 - DENOTES EXISTING MANHOLES TO BE ADJUSTED
 - DENOTES EXISTING INLETS TO BE ADJUSTED
 - DENOTES EXISTING VALVE VAULTS TO BE ADJUSTED
 - DENOTES EXISTING VALVE BOXES TO BE ADJUSTED
 - DENOTES EXISTING DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED
 - DENOTES EXISTING DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED (SPECIAL)
 - DENOTES EXISTING HANDHOLE TO BE ADJUSTED
 - DENOTES EXISTING DOUBLE HANDHOLE (SPECIAL)
 - DENOTES EXISTING FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
 - DENOTES TREE REMOVAL (SIZE IN INCHES AS NOTED)

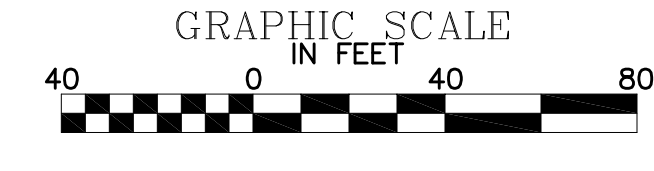
- EXISTING REMOVAL LEGEND**
- DENOTES EARTH EXCAVATION
 - DENOTES HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL
 - DENOTES SIDEWALK REMOVAL
 - DENOTES CONCRETE MEDIAN SURFACE REMOVAL
 - DENOTES COMBINATION CURB AND GUTTER REMOVAL

- PROPOSED GRADING, DRAINAGE, AND UTILITY LEGEND**
- PROPOSED STORM SEWER/CULVERT
 - PROPOSED RELAYED STORM SEWER
 - PROPOSED GRADING AND SHAPING DITCHES (WITH FLOW DIRECTION ARROW)
 - DRAINAGE DIRECTION
 - PROPOSED PRECAST REINFORCED CONCRETE FLARED END SECTION (SIZE AS NOTED)
 - REMOVE AND RELAY END SECTION (SIZE AS NOTED)
 - PROPOSED CATCH BASIN
 - PROPOSED RELOCATED FIRE HYDRANT
 - PROPOSED RELOCATED MAILBOX
 - DENOTES PRIVATE ENTRANCE
 - DENOTES COMMERCIAL ENTRANCE

- EROSION CONTROL NOTE**
- PROVIDE TEMPORARY EROSION CONTROL (DRAINAGE STRUCTURE INLET FILTERS) AT ALL OPEN DRAINAGE STRUCTURES FROM EDGE OF PAVEMENT TO RIGHT-OF-WAY/EASEMENT, OR AT THE DIRECTION OF THE ENGINEER.
- EROSION CONTROL LEGEND**
- DENOTES INLET FILTERS
 - DENOTES SILT FENCE
 - DENOTES INLET AND PIPE PROTECTION

NOTE:
IF EXISTING STORM SEWER IS ABANDONED AND NOT REMOVED, THEN SEWER PIPE SHALL BE PLUGGED AT BOTH ENDS WITH 2 FEET OF CONCRETE/MORTAR PLUG.

- STORM SEWER NOTES**
- ALL RCCP STORM SEWERS SHALL HAVE O-RING JOINT CONFORMING WITH ASTM C-443.
 - ALL PROPOSED CONNECTIONS TO EXISTING CATCH BASINS OR MANHOLES SHALL BE CORED AND A WATERPROOF BOOT INSTALLED
 - ALL TRENCH BACKFILL MATERIALS SHALL BE FA-6



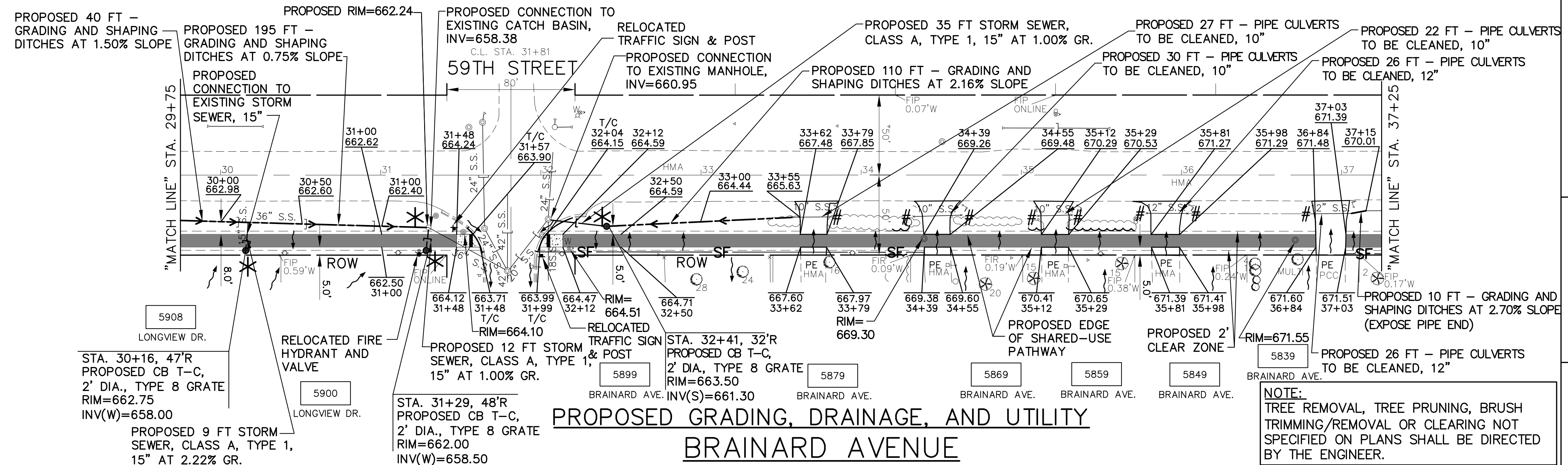
IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-00928

FOR CONTINUATION
SEE SHEET 9

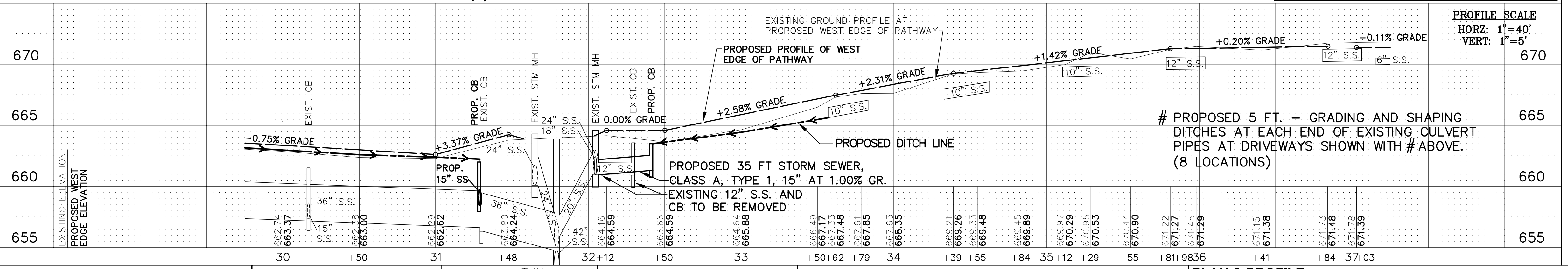
FOR CONTINUATION
SEE SHEET 11

EXISTING AND REMOVAL



**PROPOSED GRADING, DRAINAGE, AND UTILITY
BRAINARD AVENUE**

NOTE:
TREE REMOVAL, TREE PRUNING, BRUSH TRIMMING/REMOVAL OR CLEARING NOT SPECIFIED ON PLANS SHALL BE DIRECTED BY THE ENGINEER.



PROFILE SCALE
HORZ: 1"=40'
VERT: 1"=5'

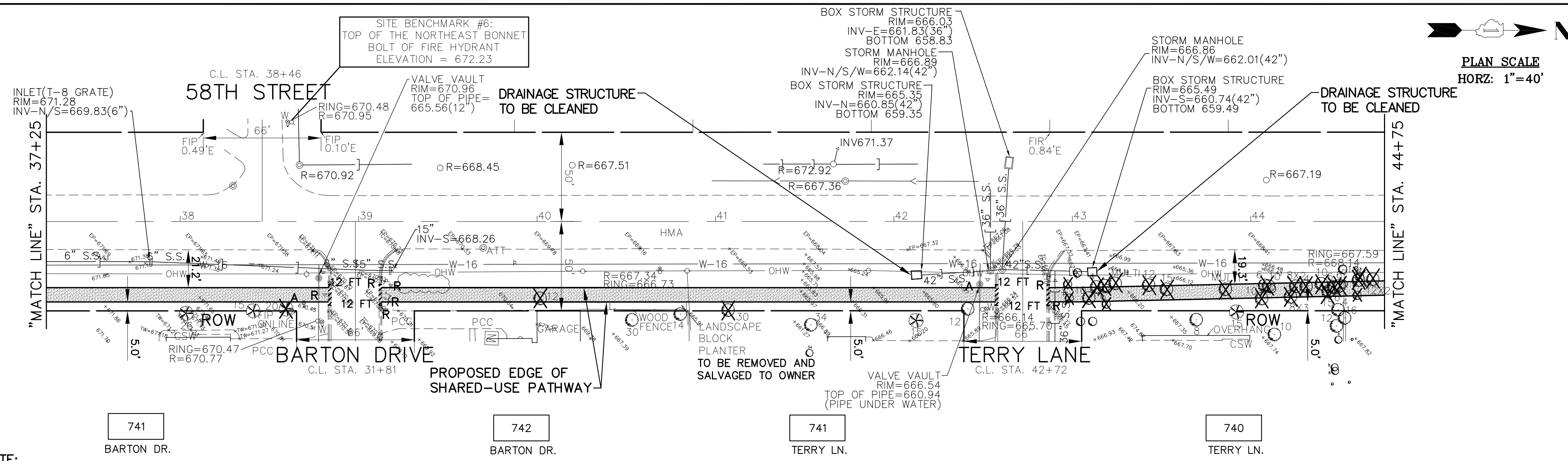
FILE NAME: CITY OF COUNTRYSIDE
FAU 2704 (BRAINARD AVENUE)
FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET)
SHARED-USE PATHWAY

USER NAME =	DESIGNED - THK	REVISED - 11-26-18	IDOT REVIEW
DRAWN - JFP	CHECKED - JEF	REVISED - 12-03-18	COOK COUNTY
PLOT SCALE =	DATE - 10/18	REVISED - 12-10-18	COOK COUNTY
PLOT DATE =		REVISED - 12-17-18	IDOT REVIEW
		REVISED - 1-30-19	COOK COUNTY

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN & PROFILE:
BRAINARD AVENUE - (SHARED-USE PATHWAY) STA. 29+75 TO STA. 37+25
(EXISTING & PROPOSED GRADING, DRAINAGE, AND UTILITY PLAN)
SCALE: AS NOTED | SHEET NO. 9 OF 44 SHEETS | STA. 29+75 TO STA. 37+25

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	10
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		CONTRACT NO. 61F60	



- EXISTING GRADING, DRAINAGE, AND UTILITY LEGEND**
- DENOTES STORM SEWER REMOVAL/CULVERT REMOVAL
 - ⊕ "M" DENOTES EXISTING FIRE HYDRANT AND VALVE TO BE MOVED
 - ⊕ "R" DENOTES EXISTING TRAFFIC SIGNS & POSTS TO BE RELOCATED
 - ⊕ "R" DENOTES EXISTING MAILBOXES TO BE RELOCATED
 - "R" DENOTES REMOVING CATCH BASINS
 - "R" DENOTES REMOVING INLETS
 - ◁ "A" DENOTES EXISTING END SECTION TO BE REMOVED
 - "CL" DENOTES EXISTING DRAINAGE STRUCTURE TO BE CLEANED
 - "A" DENOTES EXISTING CATCH BASINS TO BE ADJUSTED
 - ⊕ "A" DENOTES EXISTING MANHOLES TO BE ADJUSTED
 - ⊕ "A" DENOTES EXISTING INLETS TO BE ADJUSTED
 - ⊕ "A" DENOTES EXISTING VALVE VAULTS TO BE ADJUSTED
 - ⊕ "A" DENOTES EXISTING VALVE BOXES TO BE ADJUSTED
 - △ "A" DENOTES EXISTING DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED
 - △ "S" DENOTES EXISTING DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED (SPECIAL)
 - ⊕ "S" DENOTES EXISTING HANDHOLE TO BE ADJUSTED
 - ⊕ "S" DENOTES EXISTING DOUBLE HANDHOLE (SPECIAL)
 - ⊕ "S" DENOTES EXISTING FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
 - ⊕ "S" DENOTES TREE REMOVAL (SIZE IN INCHES AS NOTED)

- EXISTING REMOVAL LEGEND**
- ▨ DENOTES EARTH EXCAVATION
 - ▨ DENOTES HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL
 - ▨ DENOTES SIDEWALK REMOVAL
 - ▨ DENOTES CONCRETE MEDIAN SURFACE REMOVAL
 - 8 FT DENOTES COMBINATION CURB AND GUTTER REMOVAL

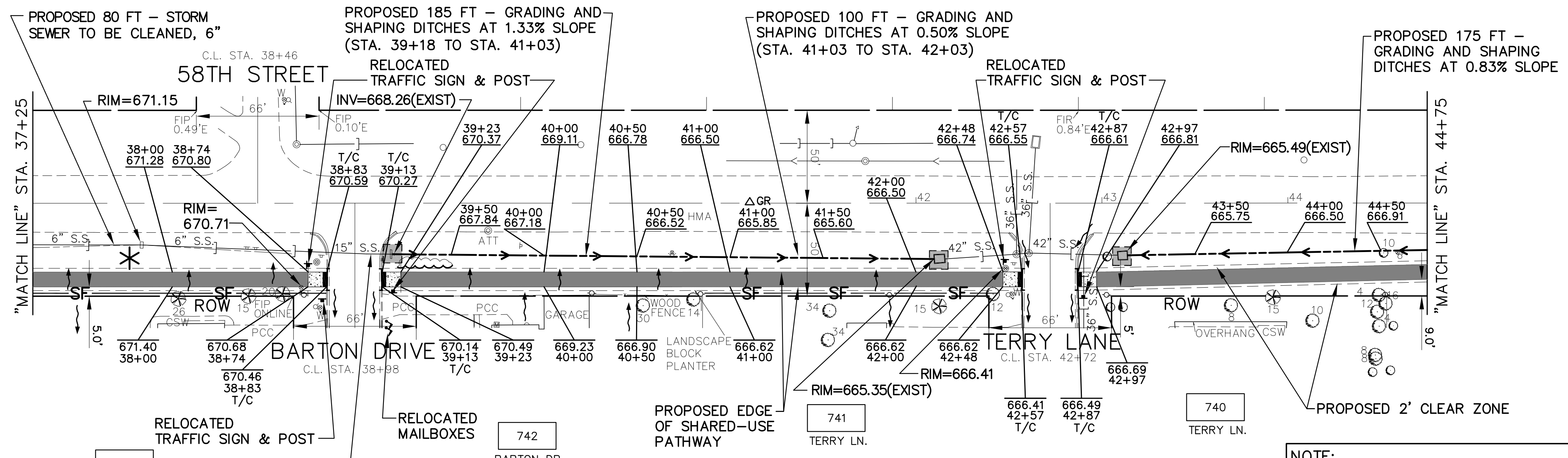
- PROPOSED GRADING, DRAINAGE, AND UTILITY LEGEND**
- DENOTES PROPOSED STORM SEWER/CULVERT
 - DENOTES PROPOSED RELAYED STORM SEWER
 - DENOTES PROPOSED GRADING AND SHAPING DITCHES (WITH FLOW DIRECTION ARROW)
 - DENOTES DRAINAGE DIRECTION
 - ◁ DENOTES PROPOSED PRECAST REINFORCED CONCRETE FLARED END SECTION (SIZE AS NOTED)
 - ◁ DENOTES REMOVE AND RELAY END SECTION (SIZE AS NOTED)
 - DENOTES PROPOSED CATCH BASIN
 - DENOTES PROPOSED RELOCATED FIRE HYDRANT
 - DENOTES PROPOSED RELOCATED MAILBOX
 - "PE" DENOTES PRIVATE ENTRANCE
 - "CE" DENOTES COMMERCIAL ENTRANCE

NOTE:
EVERGREEN BUSH TO BE TRIMMED AND PRUNED AS REQUIRED TO ALLOW FOR PATHWAY CONSTRUCTION, 4' MINIMUM OFF EDGE OF PATHWAY (AT STA. 39+33)

FOR CONTINUATION
SEE SHEET 10

FOR CONTINUATION
SEE SHEET 12

EXISTING AND REMOVAL



EROSION CONTROL NOTE
PROVIDE TEMPORARY EROSION CONTROL (DRAINAGE STRUCTURE INLET FILTERS) AT ALL OPEN DRAINAGE STRUCTURES FROM EDGE OF PAVEMENT TO RIGHT-OF-WAY/EASEMENT, OR AT THE DIRECTION OF THE ENGINEER.

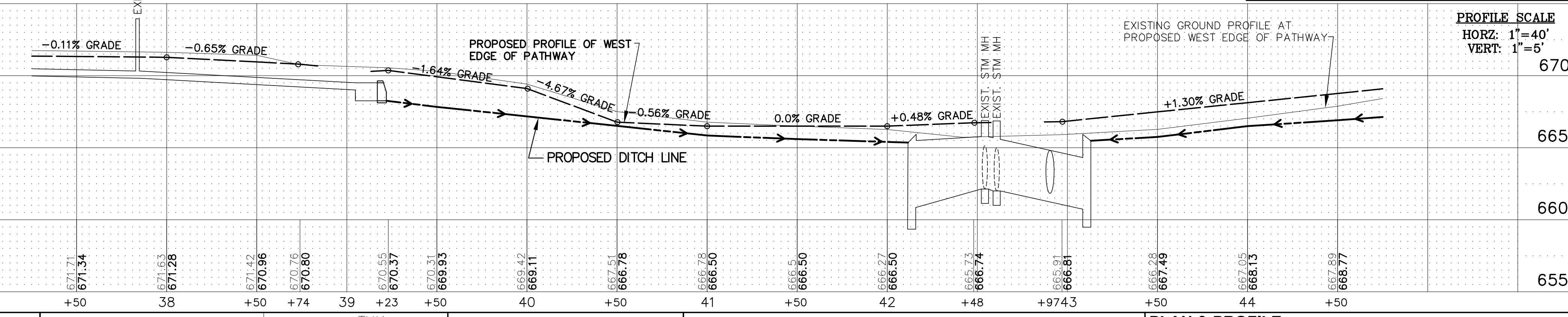
- EROSION CONTROL LEGEND**
- * DENOTES INLET FILTERS
 - SF— DENOTES SILT FENCE
 - DENOTES INLET AND PIPE PROTECTION

NOTE:
IF EXISTING STORM SEWER IS ABANDONED AND NOT REMOVED, THEN SEWER PIPE SHALL BE PLUGGED AT BOTH ENDS WITH 2 FEET OF CONCRETE/MORTAR PLUG.

- STORM SEWER NOTES**
- ALL RCCP STORM SEWERS SHALL HAVE O-RING JOINT CONFORMING WITH ASTM C-443.
 - ALL PROPOSED CONNECTIONS TO EXISTING CATCH BASINS OR MANHOLES SHALL BE CORED AND A WATERPROOF BOOT INSTALLED
 - ALL TRENCH BACKFILL MATERIALS SHALL BE FA-6



IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.



PROFILE SCALE
HORZ: 1"=40'
VERT: 1"=5'

FILE NAME: CITY OF COUNTRYSIDE
FAU 2704 (BRAINARD AVENUE)
FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET)
SHARED-USE PATHWAY

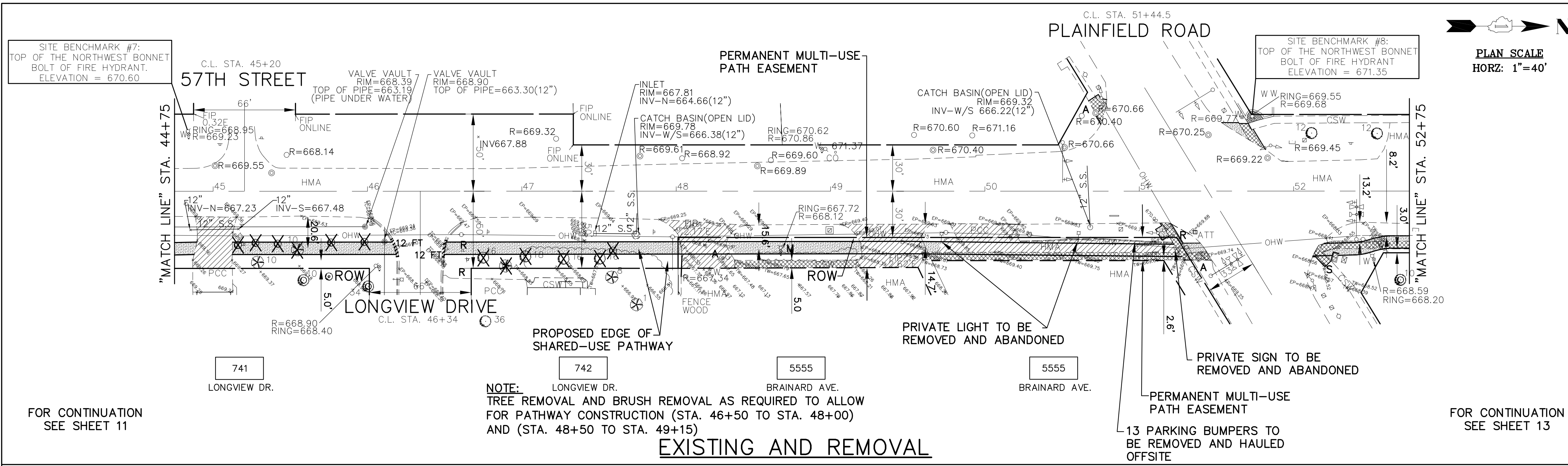
USER NAME =	DESIGNED — THK	REVISED — 11-26-18	IDOT REVIEW
DRAWN — JFP	REVISED — 12-03-18	COOK COUNTY	
CHECKED — JEF	REVISED — 12-10-18	COOK COUNTY	
DATE — 10/18	REVISED — 12-17-18	IDOT REVIEW	
	REVISED — 1-30-19	COOK COUNTY	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE:
BRAINARD AVENUE - (SHARED-USE PATHWAY) STA. 39+25 TO STA. 44+75
(EXISTING & PROPOSED GRADING, DRAINAGE, AND UTILITY PLAN)
SCALE: AS NOTED | SHEET NO. 10 OF 44 SHEETS | STA. 39+25 TO STA. 44+75

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2704	14-00041-00-BT	COOK	47
CONTRACT NO. 61F60				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-000928



EXISTING GRADING, DRAINAGE, AND UTILITY LEGEND

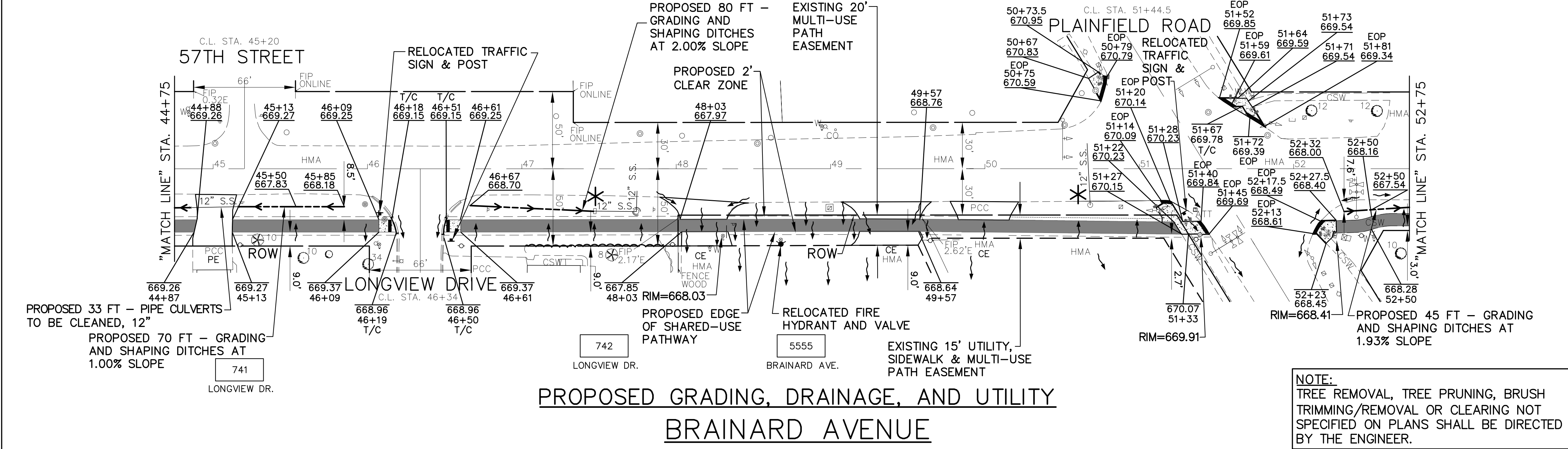
- DENOTES STORM SEWER REMOVAL/CULVERT REMOVAL
- ⊕ "M" DENOTES EXISTING FIRE HYDRANT AND VALVE TO BE MOVED
- ⊕ "R" DENOTES EXISTING TRAFFIC SIGNS & POSTS TO BE RELOCATED
- ⊕ "R" DENOTES EXISTING MAILBOXES TO BE RELOCATED
- "R" DENOTES REMOVING CATCH BASINS
- "R" DENOTES REMOVING INLETS
- ◁ "A" DENOTES EXISTING END SECTION TO BE REMOVED
- "CL" DENOTES EXISTING DRAINAGE STRUCTURE TO BE CLEANED
- "A" DENOTES EXISTING CATCH BASINS TO BE ADJUSTED
- ⊕ "A" DENOTES EXISTING MANHOLES TO BE ADJUSTED
- "A" DENOTES EXISTING INLETS TO BE ADJUSTED
- ⊕ "A" DENOTES EXISTING VALVE VAULTS TO BE ADJUSTED
- ⊕ "A" DENOTES EXISTING VALVE BOXES TO BE ADJUSTED
- △ "A" DENOTES EXISTING DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED
- ⊕ "A" DENOTES EXISTING DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED (SPECIAL)
- ⊕ "A" DENOTES EXISTING HANDHOLE TO BE ADJUSTED
- ⊕ "S" DENOTES EXISTING DOUBLE HANDHOLE (SPECIAL)
- ⊕ "S" DENOTES EXISTING FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
- ⊕ "S" DENOTES TREE REMOVAL (SIZE IN INCHES AS NOTED)

EXISTING REMOVAL LEGEND

- ▨ DENOTES EARTH EXCAVATION
- ▨ DENOTES HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL
- ▨ DENOTES SIDEWALK REMOVAL
- ▨ DENOTES CONCRETE MEDIAN SURFACE REMOVAL
- 8 FT DENOTES COMBINATION CURB AND GUTTER REMOVAL

PROPOSED GRADING, DRAINAGE, AND UTILITY LEGEND

- DENOTES PROPOSED STORM SEWER/CULVERT
- DENOTES PROPOSED RELAYED STORM SEWER
- DENOTES PROPOSED GRADING AND SHAPING DITCHES (WITH FLOW DIRECTION ARROW)
- DENOTES DRAINAGE DIRECTION
- ◁ DENOTES PROPOSED PRECAST REINFORCED CONCRETE FLARED END SECTION (SIZE AS NOTED)
- ◁ DENOTES REMOVE AND RELAY END SECTION (SIZE AS NOTED)
- DENOTES PROPOSED CATCH BASIN
- DENOTES PROPOSED RELOCATED FIRE HYDRANT
- DENOTES PROPOSED RELOCATED MAILBOX
- "PE" DENOTES PRIVATE ENTRANCE
- "CE" DENOTES COMMERCIAL ENTRANCE



EROSION CONTROL NOTE

PROVIDE TEMPORARY EROSION CONTROL (DRAINAGE STRUCTURE INLET FILTERS) AT ALL OPEN DRAINAGE STRUCTURES FROM EDGE OF PAVEMENT TO RIGHT-OF-WAY/EASEMENT, OR AT THE DIRECTION OF THE ENGINEER.

EROSION CONTROL LEGEND

- * DENOTES INLET FILTERS
- SF— DENOTES SILT FENCE
- DENOTES INLET AND PIPE PROTECTION

NOTE:

IF EXISTING STORM SEWER IS ABANDONED AND NOT REMOVED, THEN SEWER PIPE SHALL BE PLUGGED AT BOTH ENDS WITH 2 FEET OF CONCRETE/MORTAR PLUG.

STORM SEWER NOTES

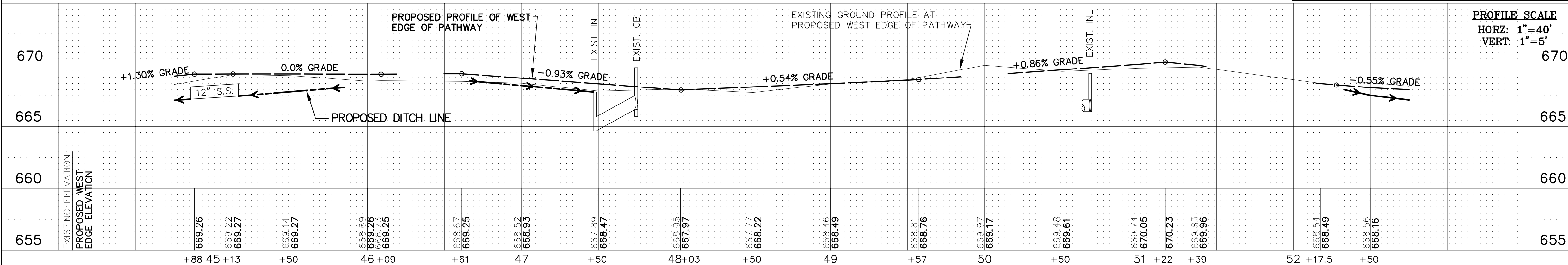
- ALL RCCP STORM SEWERS SHALL HAVE O-RING JOINT CONFORMING WITH ASTM C-443.
- ALL PROPOSED CONNECTIONS TO EXISTING CATCH BASINS OR MANHOLES SHALL BE CORED AND A WATERPROOF BOOT INSTALLED
- ALL TRENCH BACKFILL MATERIALS SHALL BE FA-6

GRAPHIC SCALE

0 40 80 IN FEET

IMPORTANT!

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.



FILE NAME: CITY OF COUNTRYSIDE
FAU 2704 (BRAINARD AVENUE)
FAU 3562 (JOLIET ROAD) TO FAU 1504 (55TH STREET)
SHARED-USE PATHWAY

USER NAME =	DESIGNED — THK	REVISED — 11-26-18	IDOT REVIEW
PLOT SCALE =	DRAWN — JFP	REVISED — 12-03-18	COOK COUNTY
PLOT DATE =	CHECKED — JEF	REVISED — 12-10-18	COOK COUNTY
	DATE — 10/18	REVISED — 12-17-18	IDOT REVIEW
		REVISED — 1-30-19	COOK COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE:
BRAINARD AVENUE - (SHARED-USE PATHWAY) STA. 44+75 TO STA. 52+75
(EXISTING & PROPOSED GRADING, DRAINAGE, AND UTILITY PLAN)

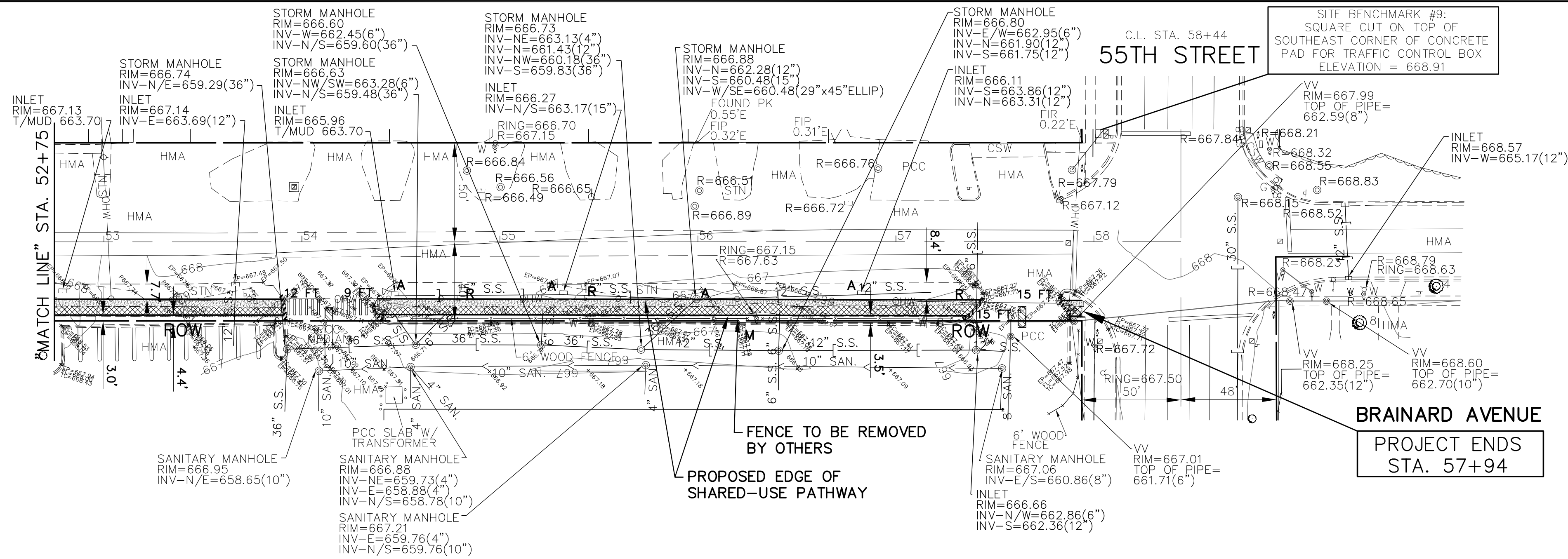
SCALE: AS NOTED SHEET NO. 11 OF 44 SHEETS STA. 44+75 TO STA. 52+75

NOVOTNY ENGINEERING

545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132

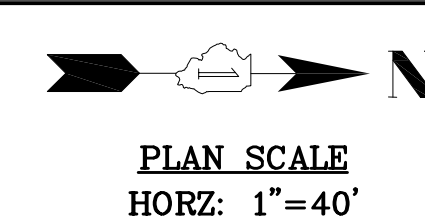
Illinois Professional Design Firm No. 184-000928

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	12
CONTRACT NO. 61F60				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



FOR CONTINUATION
SEE SHEET 12

EXISTING AND REMOVAL



- EXISTING GRADING, DRAINAGE, AND UTILITY LEGEND**
- DENOTES STORM SEWER REMOVAL/CULVERT REMOVAL
 - ⊙ "M" DENOTES EXISTING FIRE HYDRANT AND VALVE TO BE MOVED
 - ⊕ "R" DENOTES EXISTING TRAFFIC SIGNS & POSTS TO BE RELOCATED
 - ⊙ "R" DENOTES EXISTING MAILBOXES TO BE RELOCATED
 - "R" DENOTES REMOVING CATCH BASINS
 - "R" DENOTES REMOVING INLETS
 - ◁ "A" DENOTES EXISTING END SECTION TO BE REMOVED
 - "CL" DENOTES EXISTING DRAINAGE STRUCTURE TO BE CLEANED
 - "A" DENOTES EXISTING CATCH BASINS TO BE ADJUSTED
 - ⊙ "A" DENOTES EXISTING MANHOLES TO BE ADJUSTED
 - "A" DENOTES EXISTING INLETS TO BE ADJUSTED
 - ⊙ "A" DENOTES EXISTING VALVE VAULTS TO BE ADJUSTED
 - ⊙ "A" DENOTES EXISTING VALVE BOXES TO BE ADJUSTED
 - △ "A" DENOTES EXISTING DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED
 - △ "S" DENOTES EXISTING DOMESTIC WATER SERVICE BOXES TO BE ADJUSTED (SPECIAL)
 - ⊙ "S" DENOTES EXISTING HANDHOLE TO BE ADJUSTED
 - ⊙ "S" DENOTES EXISTING DOUBLE HANDHOLE (SPECIAL)
 - ⊙ "S" DENOTES EXISTING FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)
 - ⊙ "S" DENOTES TREE REMOVAL (SIZE IN INCHES AS NOTED)

- EXISTING REMOVAL LEGEND**
- ▨ DENOTES EARTH EXCAVATION
 - ▨ DENOTES HOT-MIX ASPHALT DRIVEWAY PAVEMENT REMOVAL
 - ▨ DENOTES SIDEWALK REMOVAL
 - ▨ DENOTES CONCRETE MEDIAN SURFACE REMOVAL
 - 8 FT DENOTES COMBINATION CURB AND GUTTER REMOVAL

- PROPOSED GRADING, DRAINAGE, AND UTILITY LEGEND**
- PROPOSED STORM SEWER/CULVERT
 - PROPOSED RELAYED STORM SEWER
 - PROPOSED GRADING AND SHAPING DITCHES (WITH FLOW DIRECTION ARROW)
 - ~ DRAINAGE DIRECTION
 - ◁ PROPOSED PRECAST REINFORCED CONCRETE FLARED END SECTION (SIZE AS NOTED)
 - ◁ REMOVE AND RELAY END SECTION (SIZE AS NOTED)
 - PROPOSED CATCH BASIN
 - PROPOSED RELOCATED FIRE HYDRANT
 - PROPOSED RELOCATED MAILBOX
 - "PE" DENOTES PRIVATE ENTRANCE
 - "CE" DENOTES COMMERCIAL ENTRANCE

EROSION CONTROL NOTE
PROVIDE TEMPORARY EROSION CONTROL (DRAINAGE STRUCTURE INLET FILTERS) AT ALL OPEN DRAINAGE STRUCTURES FROM EDGE OF PAVEMENT TO RIGHT-OF-WAY/EASEMENT, OR AT THE DIRECTION OF THE ENGINEER.

- EROSION CONTROL LEGEND**
- * DENOTES INLET FILTERS
 - SF— DENOTES SILT FENCE
 - DENOTES INLET AND PIPE PROTECTION

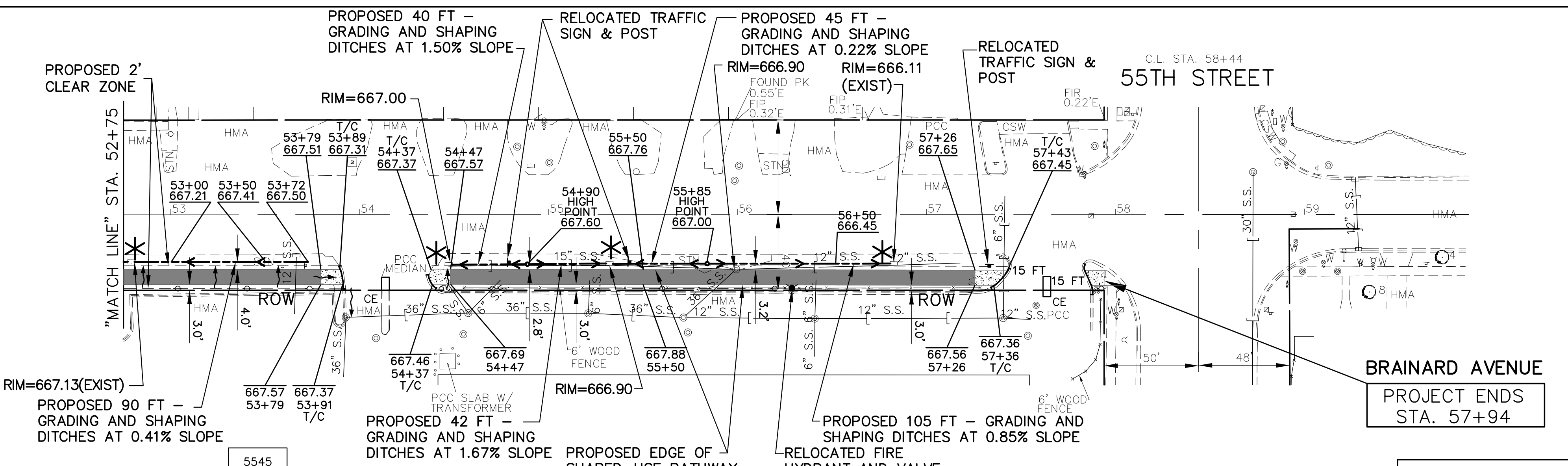
NOTE:
IF EXISTING STORM SEWER IS ABANDONED AND NOT REMOVED, THEN SEWER PIPE SHALL BE PLUGGED AT BOTH ENDS WITH 2 FEET OF CONCRETE/MORTAR PLUG.

- STORM SEWER NOTES**
- ALL RCCP STORM SEWERS SHALL HAVE O-RING JOINT CONFORMING WITH ASTM C-443.
 - ALL PROPOSED CONNECTIONS TO EXISTING CATCH BASINS OR MANHOLES SHALL BE CORED AND A WATERPROOF BOOT INSTALLED
 - ALL TRENCH BACKFILL MATERIALS SHALL BE FA-6

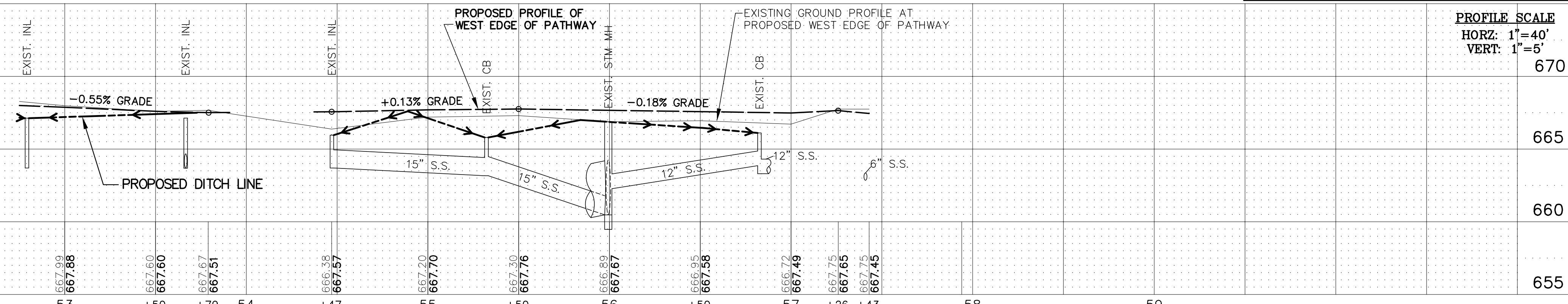


IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-00928



NOTE:
TREE REMOVAL, TREE PRUNING, BRUSH TRIMMING/REMOVAL OR CLEARING NOT SPECIFIED ON PLANS SHALL BE DIRECTED BY THE ENGINEER.



PROFILE SCALE
HORZ: 1"=40'
VERT: 1"=5'

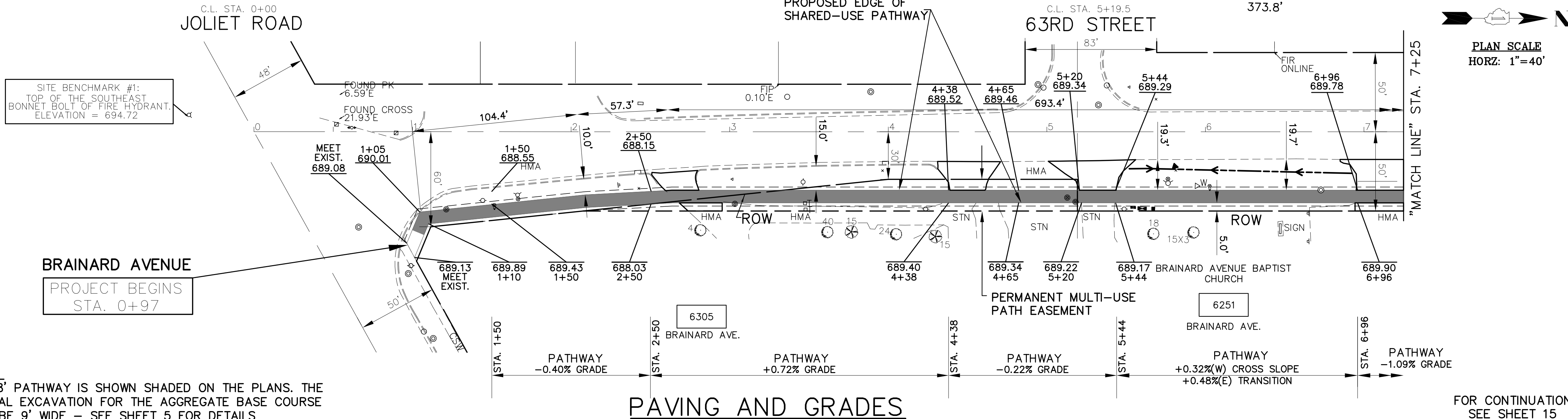
FILE NAME: CITY OF COUNTRYSIDE
FAU 2704 (BRAINARD AVENUE)
FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET)
SHARED-USE PATHWAY

USER NAME =	DESIGNED — THK	REVISED — 11-26-18	IDOT REVIEW
PLOT SCALE =	DRAWN — JFP	REVISED — 12-03-18	COOK COUNTY
PLOT DATE =	CHECKED — JEF	REVISED — 12-10-18	COOK COUNTY
	DATE — 10/18	REVISED — 12-17-18	IDOT REVIEW
		REVISED — 1-30-19	COOK COUNTY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

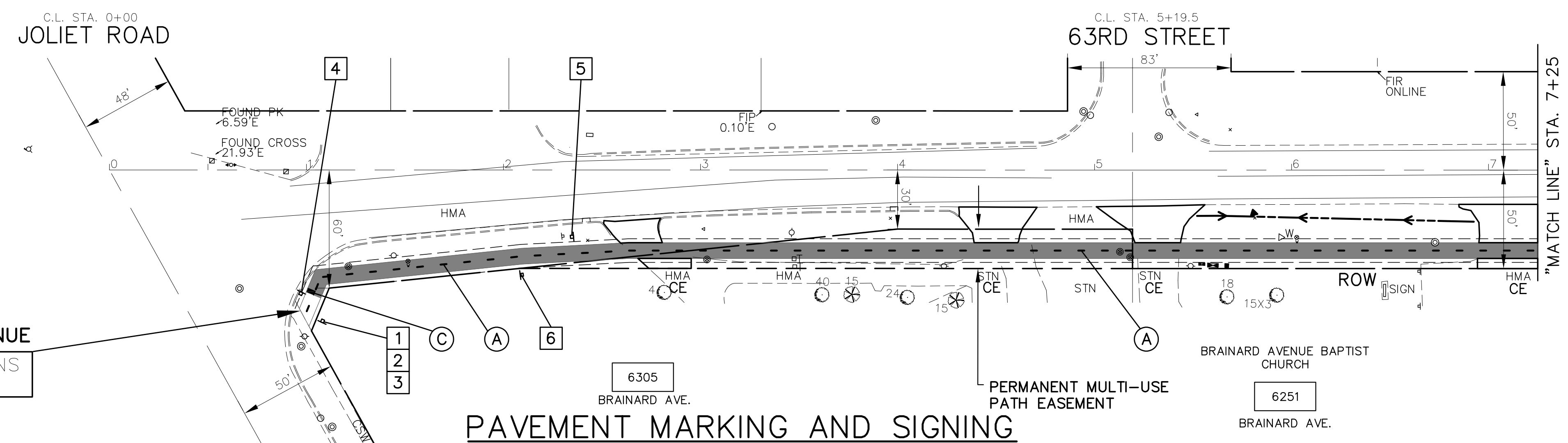
PLAN & PROFILE:
BRAINARD AVENUE - (SHARED-USE PATHWAY) STA. 52+75 TO FAP 1504 (55TH STREET)
(EXISTING & PROPOSED GRADING, DRAINAGE, AND UTILITY PLAN)
SCALE: AS NOTED | SHEET NO. 12 OF 44 SHEETS | STA. 52+75 TO STA. 57+94

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	13
CONTRACT NO. 61F60				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

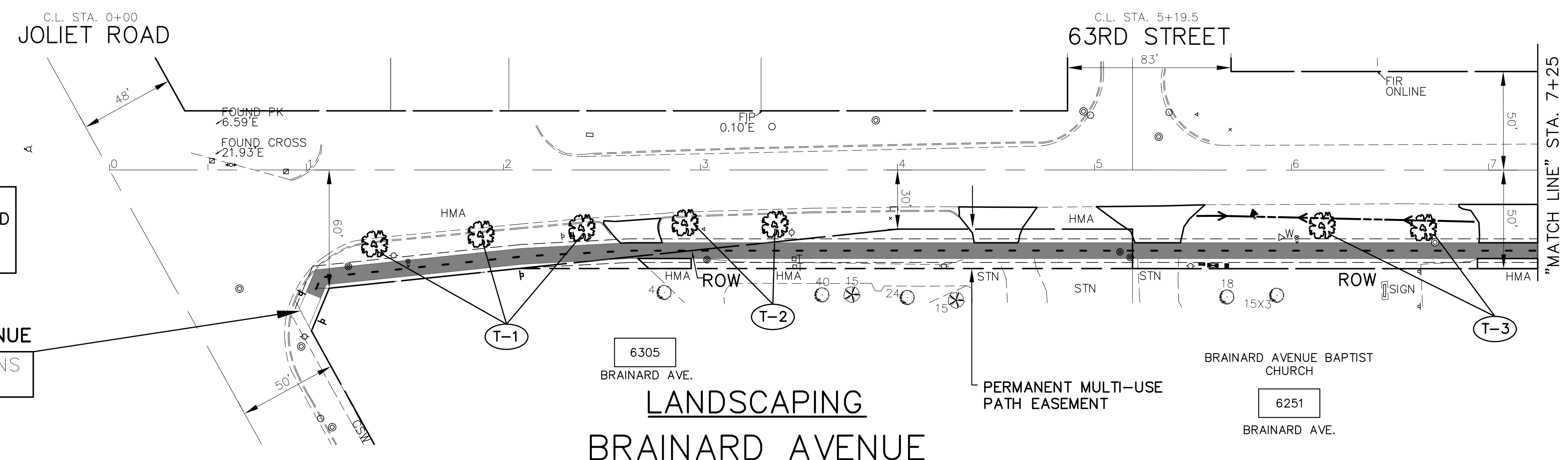


- PROPOSED PAVEMENT LEGEND**
- DENOTES HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1-3/4 INCH ON HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4 INCH ON AGGREGATE BASE COURSE, TYPE B, 6 INCH. TRIAXIAL GEOGRID REINFORCEMENT, TYPE 1
 - ▨ DENOTES PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH ON SUBBASE GRANULAR MATERIAL, 2 INCH
 - ▩ DENOTES PAVEMENT REPLACEMENT - HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3" (IN TWO LIFTS)
 - ▧ DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH ON SUBBASE GRANULAR MATERIAL, 4" (8' WIDTH x 10'± LENGTH, TYPICAL)
 - ▦ DENOTES CLASS D PATCHES, 8 INCH. - AS DIRECTED AT LOCATIONS DIRECTED BY THE ENGINEER
 - DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH WITH DETECTABLE WARNINGS (SPECIAL), CAST IRON PER I.D.O.T. STANDARD FOR HANDICAP STANDARDS (WHERE APPLICABLE) SEE CONSTRUCTION HIGHWAY STANDARDS 2% GRADE, TYPICAL
 - 8 FT DENOTES COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
 - "PE" DENOTES PRIVATE ENTRANCE
 - "CE" DENOTES COMMERCIAL ENTRANCE
- PROPOSED LEGEND**
- PROPOSED GRADING AND SHAPING DITCHES (WITH FLOW DIRECTION ARROW)
 - ◄ PROPOSED PRECAST REINFORCED CONCRETE FLARED END SECTION REMOVE AND RELAY END SECTION
 - PROPOSED CATCH BASIN
 - ⦿ PROPOSED RELOCATED FIRE HYDRANT
 - ⦿ PROPOSED RELOCATED MAILBOX

NOTE:
THE 8' PATHWAY IS SHOWN SHADED ON THE PLANS. THE ACTUAL EXCAVATION FOR THE AGGREGATE BASE COURSE WILL BE 9' WIDE - SEE SHEET 5 FOR DETAILS



- PROPOSED SIGN SCHEDULE**
- | | | |
|-------------------|------------------|---------------------|
| | | |
| D11-1
24"x 18" | M6-3
12"x 9" | R5-3
24"x 24" |
| 1 | 2 | 3 |
| | | |
| R9-6
12"x 18" | R9-6
12"x 18" | W11-15P
30"x 30" |
| 6 | 7 | 8 |
| | | |
| 9 | | |
- PROPOSED SIGN LEGEND**
- ▮ PROPOSED SIGN ▮ RELOCATED SIGN
- THERMOPLASTIC PAVEMENT MARKING CODE**
- (A) LANE LINE - DASHED YELLOW THERMOPLASTIC PAVEMENT MARKING - LINE 4", 3" DASH, 9' SKIP
 - (B) PATHWAY CROSSWALK - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 12", 45'
 - (C) PATHWAY CROSSWALK - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 6"
 - (D) STOP BAR - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 24"
- NOTE:
PROPOSED MINIMUM CLEARANCE FOR SIGN PLACEMENT SHALL BE 2' OFF EDGE OF PATHWAY TO INSIDE EDGE OF SIGN



NOTE:
ALL TREES MUST BE PLANTED A MINIMUM OF 4' FROM THE PROPOSED DITCH LINE

- PROPOSED LANDSCAPE LEGEND**
- SHADE TREES**
- (T-1) GINKGO BILOBA AUTUMN GOLD
 - (T-2) ACER X FREEMANII AUTUMN BLAZE
 - (T-3) QUERCUS ALBA
- DECIDUOUS SHRUBS**
- (S-1) VIBURNAUM DENTATUM
 - (S-2) ARONIA ARBUTIFOLIA
 - (S-3) MYRICA PENNSYLVANICA
- DENOTES TREE CODE. SEE SHEET 22 FOR PLANT LIST
- PROPOSED TREE
- GRAPHIC SCALE
IN FEET
- 40 0 40 80
- IMPORTANT!**
- FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

FILE NAME: CITY OF COUNTRYSIDE
FAU 2704 (BRAINARD AVENUE)
FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET)
SHARED-USE PATHWAY

USER NAME =
DESIGNED - THK
DRAWN - JFP
CHECKED - THK
DATE - 8/18

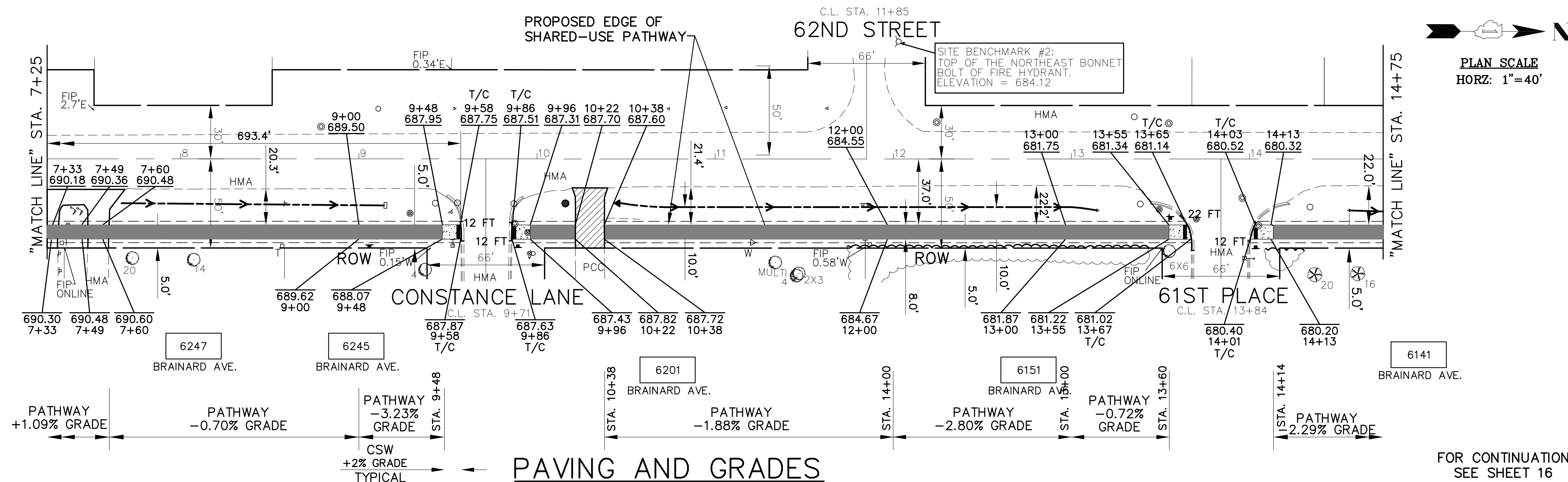
DESIGNED - THK
DRAWN - JFP
CHECKED - THK
DATE - 8/18

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

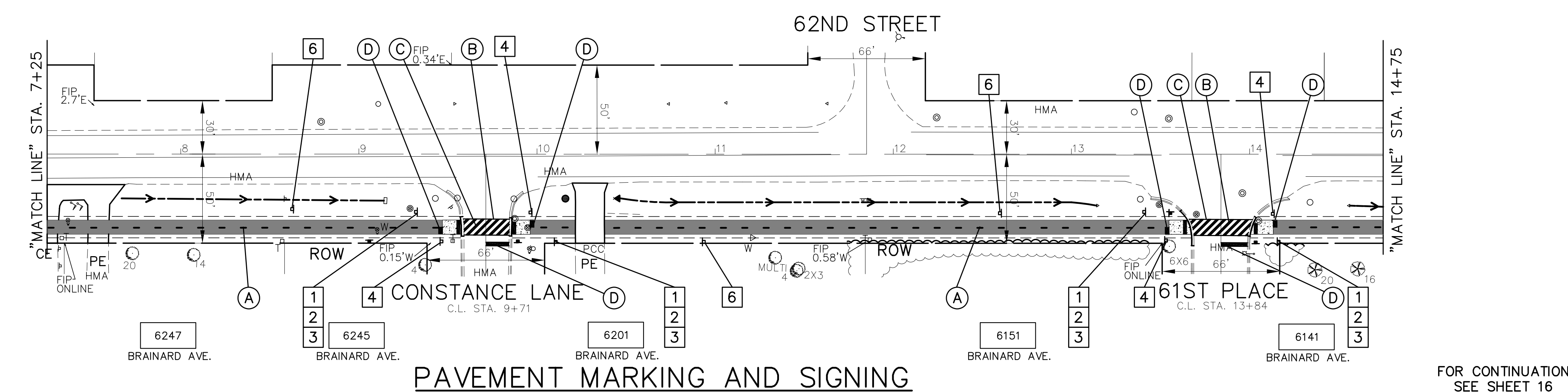
PLAN & PROFILE:
BRAINARD AVENUE - (SHARED-USE PATHWAY) FAU 3562 (JOLIET ROAD) TO STA. 7+25
(EXISTING & PROPOSED ROADWAY SHARED-USE PATHWAY PLAN)

F.A.U. SECTION COUNTY TOTAL SHEETS SHEET NO.
2704 14-00041-00-BT COOK 47 14

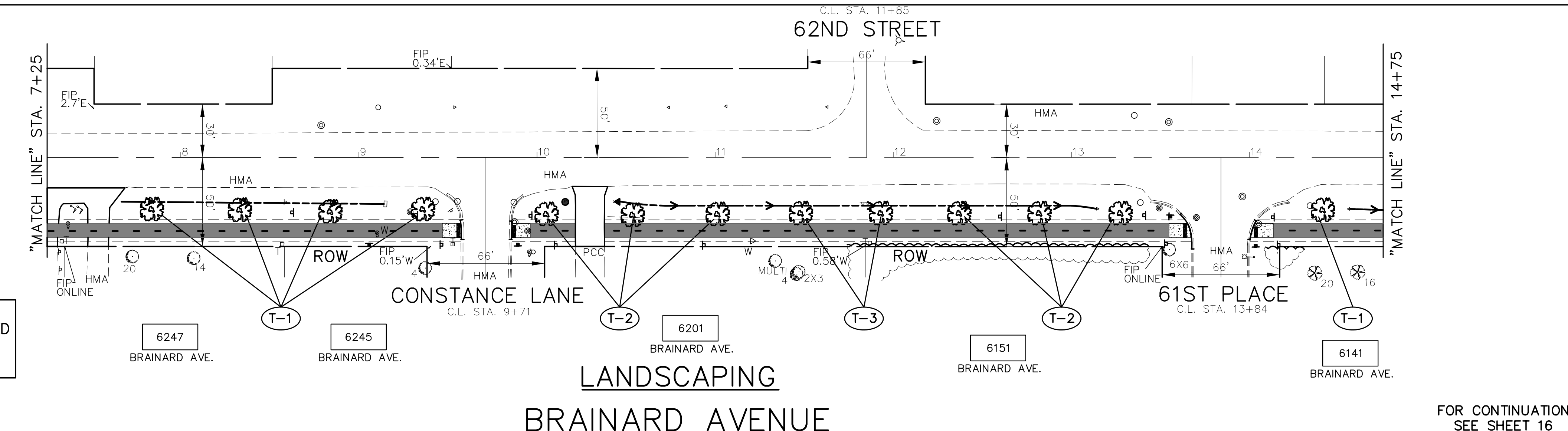
NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Wilmette, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-000928



- PROPOSED PAVEMENT LEGEND**
- DENOTES HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1-3/4 INCH ON HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4 INCH ON AGGREGATE BASE COURSE, TYPE B, 6 INCH. TRIAXIAL GEOGRID REINFORCEMENT, TYPE 1
 - ▨ DENOTES PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH ON SUBBASE GRANULAR MATERIAL, 2 INCH
 - ▨ DENOTES PAVEMENT REPLACEMENT - HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3" (IN TWO LIFTS)
 - ▨ DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH ON SUBBASE GRANULAR MATERIAL, 4" (8' WIDTH x 10'± LENGTH, TYPICAL)
 - ▨ DENOTES CLASS D PATCHES, 8 INCH. - AS DIRECTED AT LOCATIONS DIRECTED BY THE ENGINEER
 - ▨ DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH WITH DETECTABLE WARNINGS (SPECIAL), CAST IRON PER I.D.O.T. STANDARD FOR HANDICAP RAMPS (WHERE APPLICABLE) SEE CONSTRUCTION HIGHWAY STANDARDS 2% GRADE, TYPICAL
 - ▨ DENOTES COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- PROPOSED LEGEND**
- PROPOSED GRADING AND SHAPING DITCHES (WITH FLOW DIRECTION ARROW)
 - ▲ PROPOSED PRECAST REINFORCED CONCRETE FLARED END SECTION REMOVE AND RELAY END SECTION
 - PROPOSED CATCH BASIN
 - PROPOSED RELOCATED FIRE HYDRANT
 - PROPOSED RELOCATED MAILBOX



- PROPOSED SIGN SCHEDULE**
- | | | | |
|---------------------|--------------------|---------------------|-----------------------|
| | | | |
| D11-1
24"x 18" 1 | M6-3
12"x 9" 2 | R5-3
24"x 24" 3 | R1-1
18"x 18" 4 |
| | | | |
| R9-6
12"x 18" 6 | R9-6
12"x 18" 7 | W1-15
30"x 30" 8 | W11-15P
24"x 18" 9 |
- PROPOSED SIGN LEGEND**
- ▭ PROPOSED SIGN
 - ▭ RELOCATED SIGN
- THERMOPLASTIC PAVEMENT MARKING CODE**
- (A) LANE LINE - DASHED YELLOW THERMOPLASTIC PAVEMENT MARKING - LINE 4", 3' DASH, 9' SKIP
 - (B) PATHWAY CROSSWALK - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 12", 45'
 - (C) PATHWAY CROSSWALK - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 6"
 - (D) STOP BAR - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 24"
- NOTE:**
PROPOSED MINIMUM CLEARANCE FOR SIGN PLACEMENT SHALL BE 2' OFF EDGE OF PATHWAY TO INSIDE EDGE OF SIGN



- PROPOSED LANDSCAPE LEGEND**
- SHADE TREES**
- (T-1) GINKGO BILOBA AUTUMN GOLD
 - (T-2) ACER X FREEMANII AUTUMN BLAZE
 - (T-3) QUERCUS ALBA
- DECIDUOUS SHRUBS**
- (S-1) VIBURNAUM DENTATUM
 - (S-2) ARONIA ARBUTIFOLIA
 - (S-3) MYRICA PENNSYLVANICA
- DENOTES TREE CODE. SEE SHEET 22 FOR PLANT LIST
-
- GRAPHIC SCALE
IN FEET
0 40 80
- IMPORTANT!**
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

NOTE:
ALL TREES MUST BE PLANTED A MINIMUM OF 4' FROM THE PROPOSED DITCH LINE

FILE NAME	CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET) SHARED-USE PATHWAY
USER NAME	=
DESIGNED	THK
DRAWN	JFP
CHECKED	THK
DATE	8/18
DESIGNED	THK
DRAWN	JFP
CHECKED	THK
DATE	8/18

DESIGNED	THK	REVISD	11-26-18	IDOT REVIEW
DRAWN	JFP	REVISD	12-03-18	COOK COUNTY
CHECKED	THK	REVISD	12-10-18	COOK COUNTY
DATE	8/18	REVISD	12-17-18	IDOT REVIEW
		REVISD	1-30-19	COOK COUNTY

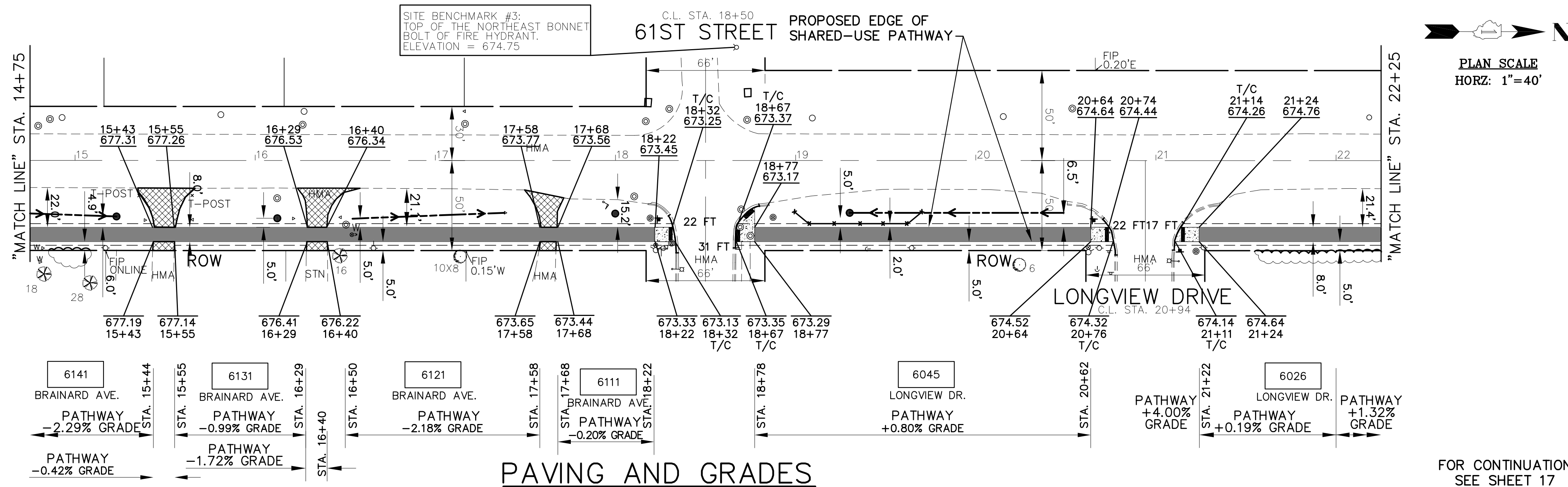
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE:
BRAINARD AVENUE - (SHARED-USE PATHWAY) STA. 7+25 TO STA. 14+75
(EXISTING & PROPOSED ROADWAY SHARED-USE PATHWAY PLAN)

SCALE: AS NOTED | SHEET NO. OF SHEETS | STA. 7+25 TO STA. 14+75

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	15
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 61F60		

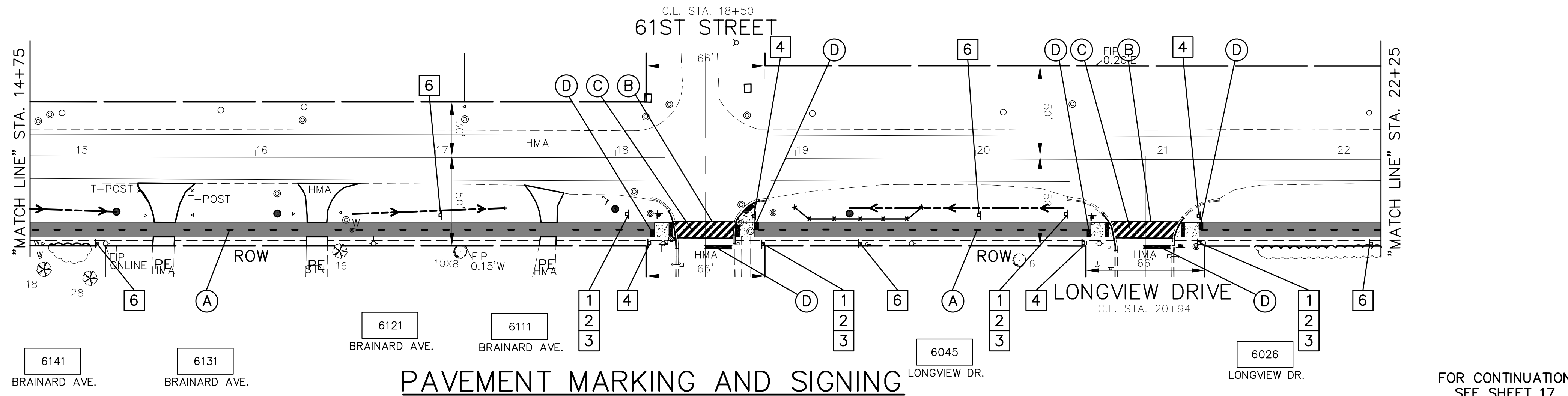
NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-000928



- PROPOSED PAVEMENT LEGEND**
- DENOTES HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1-3/4 INCH ON HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4 INCH ON AGGREGATE BASE COURSE, TYPE B, 6 INCH. TRIAXIAL GEOGRID REINFORCEMENT, TYPE 1
 - ▨ DENOTES PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH ON SUBBASE GRANULAR MATERIAL, 2 INCH
 - ▨ DENOTES PAVEMENT REPLACEMENT - HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3" (IN TWO LIFTS)
 - ▨ DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH ON SUBBASE GRANULAR MATERIAL, 4" (8' WIDTH x 10'± LENGTH, TYPICAL)
 - ▨ DENOTES CLASS D PATCHES, 8 INCH. - AS DIRECTED AT LOCATIONS DIRECTED BY THE ENGINEER
 - ▨ DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH WITH DETECTABLE WARNINGS (SPECIAL), CAST IRON PER I.D.O.T. STANDARD FOR HANDICAP STANDARDS (WHERE APPLICABLE) SEE CONSTRUCTION HIGHWAY STANDARDS 2% GRADE, TYPICAL
 - 8 FT DENOTES COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
 - "PE" DENOTES PRIVATE ENTRANCE
 - "CE" DENOTES COMMERCIAL ENTRANCE
- PROPOSED LEGEND**
- PROPOSED GRADING AND SHAPING DITCHES (WITH FLOW DIRECTION ARROW)
 - ◄ PROPOSED PRECAST REINFORCED CONCRETE FLARED END SECTION REMOVE AND RELAY END SECTION
 - PROPOSED CATCH BASIN
 - PROPOSED RELOCATED FIRE HYDRANT
 - PROPOSED RELOCATED MAILBOX

FOR CONTINUATION SEE SHEET 15

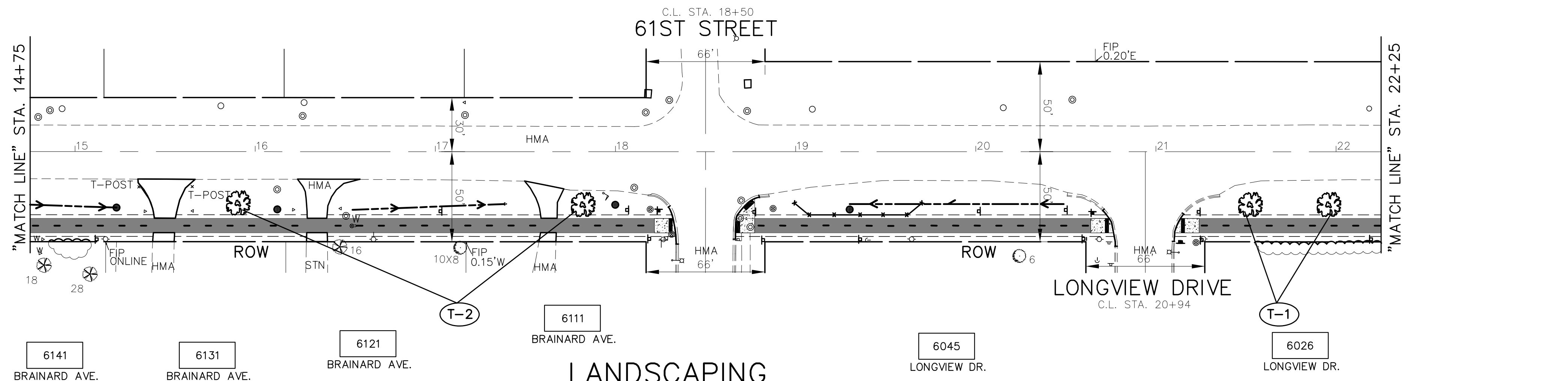
FOR CONTINUATION SEE SHEET 17



- PROPOSED SIGN SCHEDULE**
- | | | | |
|-------------------|------------------|-------------------|---------------------|
| | | | |
| D11-1
24"x 18" | M6-3
12"x 9" | R5-3
24"x 24" | R1-1
18"x 18" |
| 1 | 2 | 3 | 4 |
| | | | |
| R9-6
12"x 18" | R9-6
12"x 18" | W1-15
30"x 30" | W11-15P
24"x 18" |
| 6 | 7 | 8 | 9 |
- PROPOSED SIGN LEGEND**
- ▭ PROPOSED SIGN
 - ▭ RELOCATED SIGN
- THERMOPLASTIC PAVEMENT MARKING CODE**
- (A) LANE LINE - DASHED YELLOW THERMOPLASTIC PAVEMENT MARKING - LINE 4", 3' DASH, 9' SKIP
 - (B) PATHWAY CROSSWALK - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 12", 45'
 - (C) PATHWAY CROSSWALK - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 6"
 - (D) STOP BAR - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 24"
- NOTE:** PROPOSED MINIMUM CLEARANCE FOR SIGN PLACEMENT SHALL BE 2' OFF EDGE OF PATHWAY TO INSIDE EDGE OF SIGN

FOR CONTINUATION SEE SHEET 15

FOR CONTINUATION SEE SHEET 17



- PROPOSED LANDSCAPE LEGEND**
- SHADE TREES**
- (T-1) GINKGO BILOBA AUTUMN GOLD
 - (T-2) ACER X FREEMANII AUTUMN BLAZE
 - (T-3) QUERCUS ALBA
- DECIDUOUS SHRUBS**
- (S-1) VIBURNAUM DENTATUM
 - (S-2) ARONIA ARBUTIFOLIA
 - (S-3) MYRICA PENNSYLVANICA
- DENOTES TREE CODE. SEE SHEET 22 FOR PLANT LIST
- PROPOSED TREE
- GRAPHIC SCALE
IN FEET
0 40 80

NOTE: ALL TREES MUST BE PLANTED A MINIMUM OF 4' FROM THE PROPOSED DITCH LINE

FOR CONTINUATION SEE SHEET 15

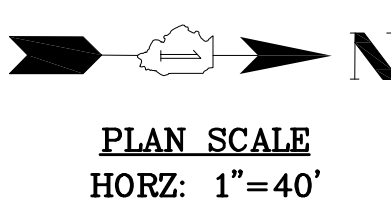
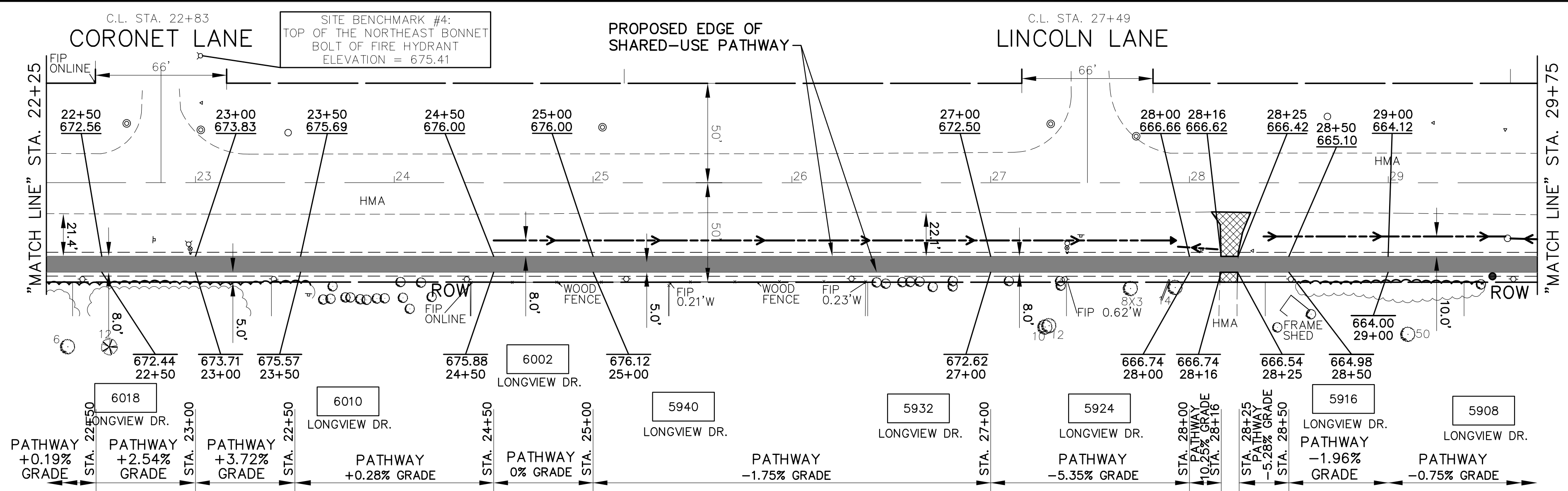
FOR CONTINUATION SEE SHEET 17

FILE NAME CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET) SHARED-USE PATHWAY	USER NAME =	DESIGNED - THK	REVISED - 11-26-18 IDOT REVIEW	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE: BRAINARD AVENUE - (SHARED-USE PATHWAY) STA. 14+75 TO STA. 22+25 (EXISTING & PROPOSED ROADWAY SHARED-USE PATHWAY PLAN)	F.A.U. R.T.E. 2704	SECTION 14-00041-00-BT	COUNTY COOK	TOTAL SHEETS 47	SHEET NO. 16	
#13250	PLOT SCALE =	DRAWN - JFP	REVISED - 12-03-18 COOK COUNTY		SCALE: AS NOTED	SHEET NO. OF SHEETS	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 61F60		
	PLOT DATE =	CHECKED - THK	REVISED - 12-10-18 COOK COUNTY		STA. 14+75 TO STA. 22+25						
		DATE - 8/18	REVISED - 12-17-18 IDOT REVIEW								
			REVISED - 1-30-19 COOK COUNTY								

IMPORTANT!

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-000928

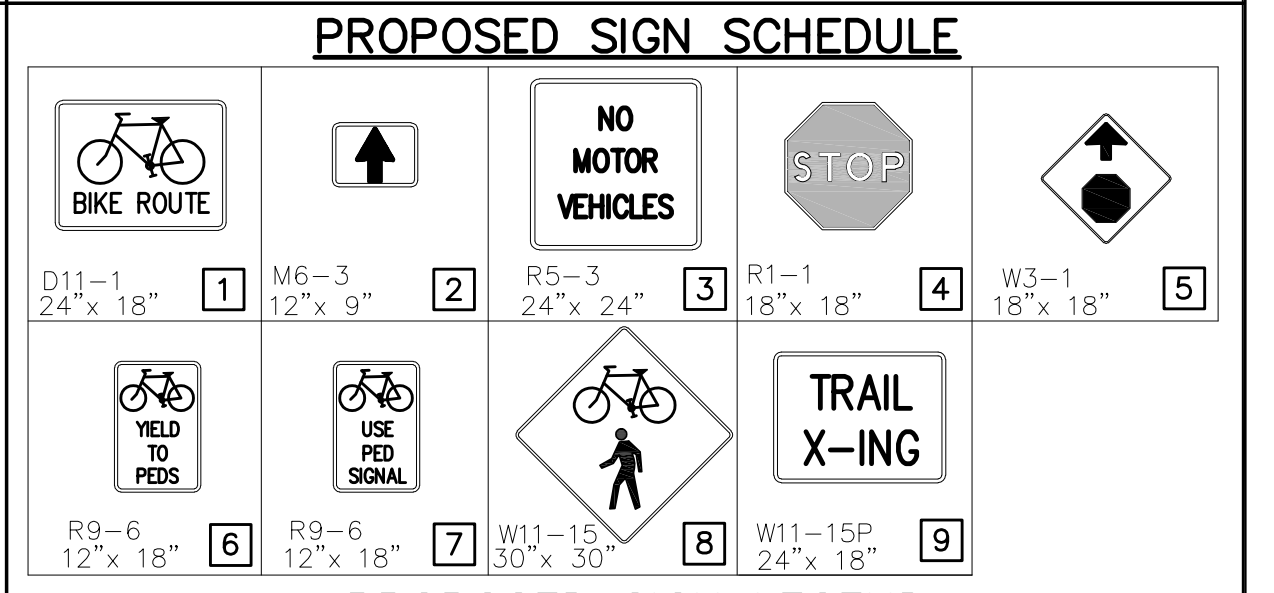
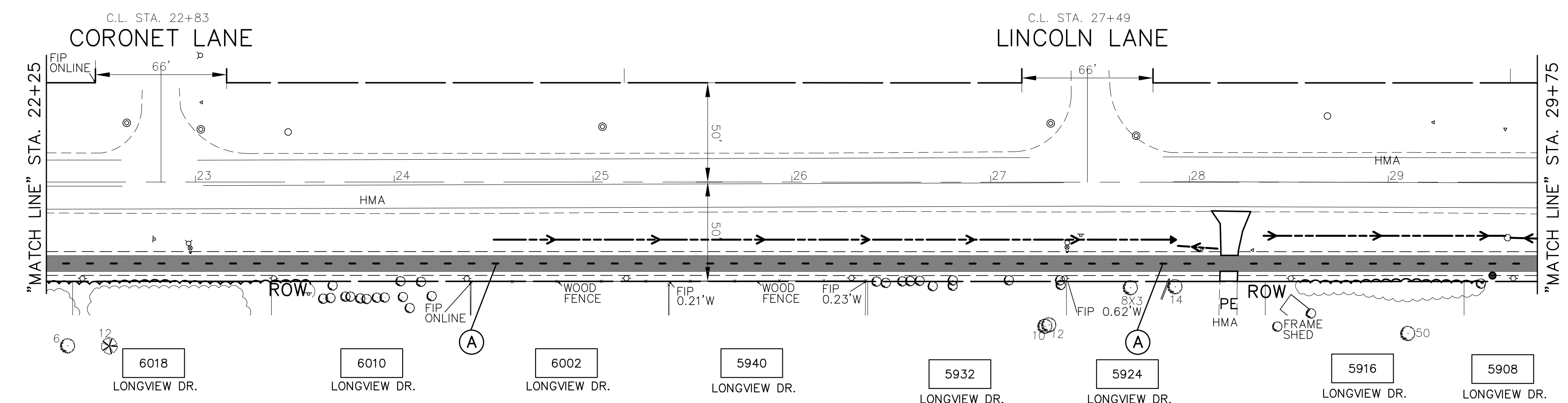


- PROPOSED PAVEMENT LEGEND**
- DENOTES HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1-3/4 INCH ON HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4 INCH ON AGGREGATE BASE COURSE, TYPE B, 6 INCH. TRIAXIAL GEOGRID REINFORCEMENT, TYPE 1
 - ▨ DENOTES PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH ON SUBBASE GRANULAR MATERIAL, 2 INCH
 - ▩ DENOTES PAVEMENT REPLACEMENT - HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3" (IN TWO LIFTS)
 - ▧ DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH ON SUBBASE GRANULAR MATERIAL, 4" (8' WIDTH x 10'± LENGTH, TYPICAL)
 - ▦ DENOTES CLASS D PATCHES, 8 INCH. - AS DIRECTED AT LOCATIONS DIRECTED BY THE ENGINEER
 - DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH WITH DETECTABLE WARNINGS (SPECIAL), CAST IRON PER I.D.O.T. STANDARD FOR HANDICAP RAMPS (WHERE APPLICABLE) SEE CONSTRUCTION HIGHWAY STANDARDS 2% GRADE, TYPICAL
 - ▬ DENOTES COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
 - "PE" DENOTES PRIVATE ENTRANCE
 - "CE" DENOTES COMMERCIAL ENTRANCE
- PROPOSED LEGEND**
- PROPOSED GRADING AND SHAPING DITCHES (WITH FLOW DIRECTION ARROW)
 - ◄ PROPOSED PRECAST REINFORCED CONCRETE FLARED END SECTION REMOVE AND RELAY END SECTION
 - PROPOSED CATCH BASIN
 - ⦿ PROPOSED RELOCATED FIRE HYDRANT
 - ⦿ PROPOSED RELOCATED MAILBOX

FOR CONTINUATION SEE SHEET 16

FOR CONTINUATION SEE SHEET 18

PAVING AND GRADES

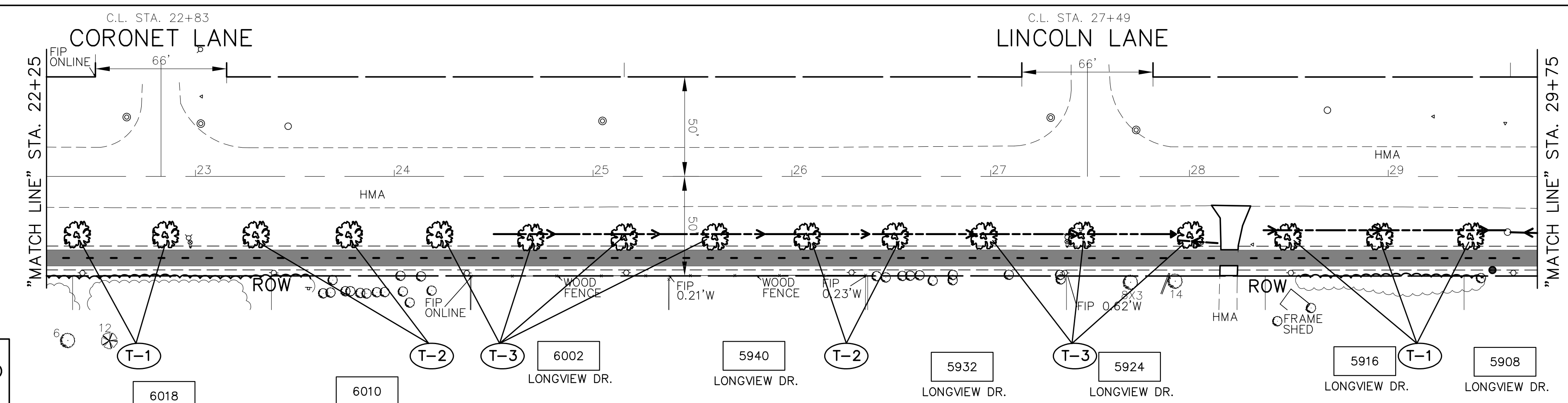


FOR CONTINUATION SEE SHEET 16

FOR CONTINUATION SEE SHEET 18

PAVEMENT MARKING AND SIGNING

- PROPOSED SIGN LEGEND**
- ▭ PROPOSED SIGN
 - ▭ RELOCATED SIGN
- THERMOPLASTIC PAVEMENT MARKING CODE**
- (A) LANE LINE - DASHED YELLOW THERMOPLASTIC PAVEMENT MARKING - LINE 4", 3" DASH, 9' SKIP
 - (B) PATHWAY CROSSWALK - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 12", 45'
 - (C) PATHWAY CROSSWALK - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 6"
 - (D) STOP BAR - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 24"
- NOTE:** PROPOSED MINIMUM CLEARANCE FOR SIGN PLACEMENT SHALL BE 2' OFF EDGE OF PATHWAY TO INSIDE EDGE OF SIGN



- PROPOSED LANDSCAPE LEGEND**
- SHADE TREES**
- (T-1) GINKGO BILOBA AUTUMN GOLD
 - (T-2) ACER X FREEMANII AUTUMN BLAZE
 - (T-3) QUERCUS ALBA
- DECIDUOUS SHRUBS**
- (S-1) VIBURNAUM DENTATUM
 - (S-2) ARONIA ARBUTIFOLIA
 - (S-3) MYRICA PENNSYLVANICA
- DENOTES TREE CODE. SEE SHEET 22 FOR PLANT LIST
- PROPOSED TREE
- GRAPHIC SCALE IN FEET
- 0 40 80

NOTE: ALL TREES MUST BE PLANTED A MINIMUM OF 4' FROM THE PROPOSED DITCH LINE

FOR CONTINUATION SEE SHEET 16

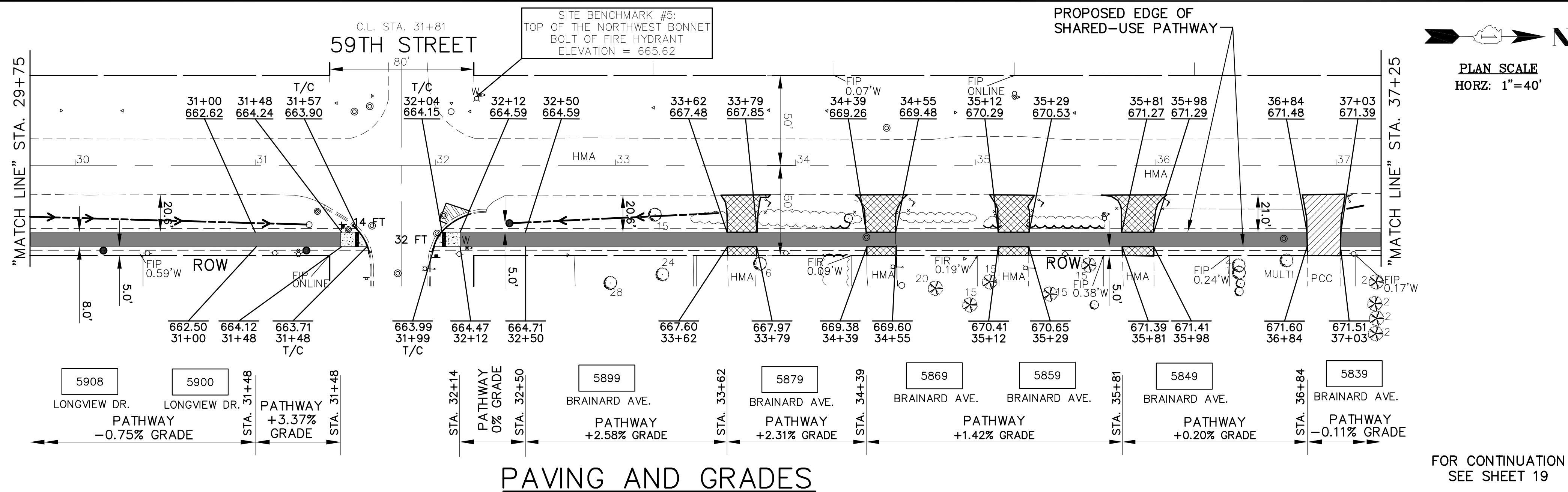
FOR CONTINUATION SEE SHEET 18

**LANDSCAPING
BRAINARD AVENUE**

IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-000928

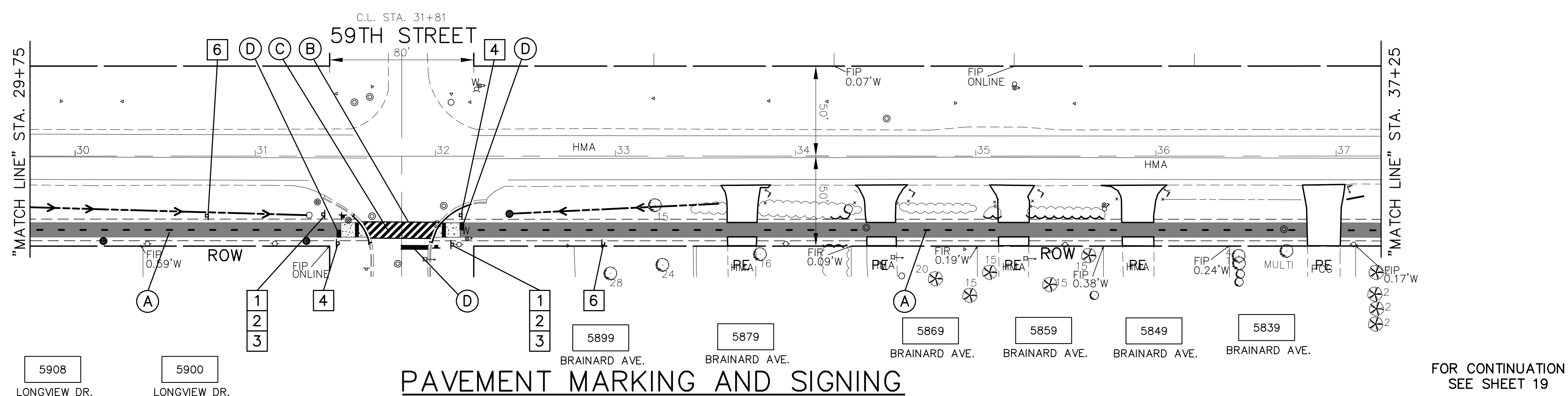
FILE NAME CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET) SHARED-USE PATHWAY	USER NAME =	DESIGNED - THK	REVISED - 11-26-18 IDOT REVIEW	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE: BRAINARD AVENUE - (SHARED-USE PATHWAY) STA. 22+75 TO STA. 29+25 (EXISTING & PROPOSED ROADWAY SHARED-USE PATHWAY PLAN)	F.A.U. R.T.E. = 2704	SECTION = 14-00041-00-BT	COUNTY = COOK	TOTAL SHEETS = 47	SHEET NO. = 17
	PLOT SCALE =	CHECKED - THK	REVISED - 12-03-18 COOK COUNTY			SCALE: AS NOTED	SHEET NO. OF SHEETS	STA. 22+75 TO STA. 29+25	CONTRACT NO. 61F60	
#13250	PLOT DATE =	DATE - 8/18	REVISED - 12-10-18 COOK COUNTY							
			REVISED - 12-17-18 IDOT REVIEW							
			REVISED - 1-30-19 COOK COUNTY							



- ### PROPOSED PAVEMENT LEGEND
- DENOTES HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1-3/4 INCH ON HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4 INCH ON AGGREGATE BASE COURSE, TYPE B, 6 INCH. TRIAXIAL GEOGRID REINFORCEMENT, TYPE 1
 - ▨ DENOTES PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH ON SUBBASE GRANULAR MATERIAL, 2 INCH
 - ▩ DENOTES PAVEMENT REPLACEMENT - HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3" (IN TWO LIFTS)
 - ▧ DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH ON SUBBASE GRANULAR MATERIAL, 4" (8' WIDTH x 10'± LENGTH, TYPICAL)
 - ▦ DENOTES CLASS D PATCHES, 8 INCH. - AS DIRECTED AT LOCATIONS DIRECTED BY THE ENGINEER
 - ▧ DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH WITH DETECTABLE WARNINGS (SPECIAL), CAST IRON PER I.D.O.T. STANDARD FOR HANDICAP STANDARDS (WHERE APPLICABLE) SEE CONSTRUCTION HIGHWAY STANDARDS 2% GRADE, TYPICAL
 - ▧ DENOTES COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- ### PROPOSED LEGEND
- PROPOSED GRADING AND SHAPING DITCHES (WITH FLOW DIRECTION ARROW)
 - ◄ PROPOSED PRECAST REINFORCED CONCRETE FLARED END SECTION REMOVE AND RELAY END SECTION
 - PROPOSED CATCH BASIN
 - PROPOSED RELOCATED FIRE HYDRANT
 - PROPOSED RELOCATED MAILBOX

FOR CONTINUATION
SEE SHEET 17

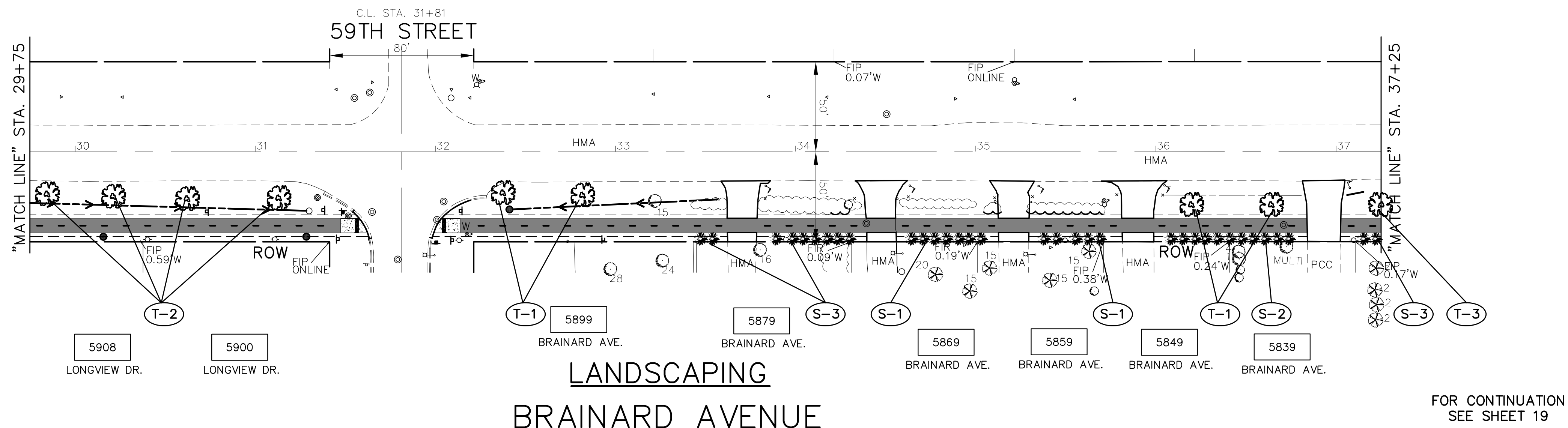
FOR CONTINUATION
SEE SHEET 19



- ### PROPOSED SIGN SCHEDULE
- | | | | |
|-------------------|------------------|-------------------|---------------------|
| | | | |
| D11-1
24"x 18" | M6-3
12"x 9" | R5-3
24"x 24" | R1-1
18"x 18" |
| 1 | 2 | 3 | 4 |
| | | | |
| R9-6
12"x 18" | R9-6
12"x 18" | W1-15
30"x 30" | W11-15P
24"x 18" |
| 6 | 7 | 8 | 9 |
- ### PROPOSED SIGN LEGEND
- ▭ PROPOSED SIGN
 - ▭ RELOCATED SIGN
- ### THERMOPLASTIC PAVEMENT MARKING CODE
- (A) LANE LINE - DASHED YELLOW THERMOPLASTIC PAVEMENT MARKING - LINE 4", 3" DASH, 9' SKIP
 - (B) PATHWAY CROSSWALK - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 12", 45'
 - (C) PATHWAY CROSSWALK - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 6"
 - (D) STOP BAR - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 24"
- NOTE: PROPOSED MINIMUM CLEARANCE FOR SIGN PLACEMENT SHALL BE 2' OFF EDGE OF PATHWAY TO INSIDE EDGE OF SIGN

FOR CONTINUATION
SEE SHEET 17

FOR CONTINUATION
SEE SHEET 19



- ### PROPOSED LANDSCAPE LEGEND
- #### SHADE TREES
- (T-1) GINKGO BILOBA AUTUMN GOLD
 - (T-2) ACER X FREEMANII AUTUMN BLAZE
 - (T-3) QUERCUS ALBA
- #### DECIDUOUS SHRUBS
- (S-1) VIBURNAUM DENTATUM
 - (S-2) ARONIA ARBUTIFOLIA
 - (S-3) MYRICA PENNSYLVANICA
- DENOTES TREE CODE. SEE SHEET 22 FOR PLANT LIST
- PROPOSED TREE
- GRAPHIC SCALE
IN FEET
0 40 80
- IMPORTANT!**
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

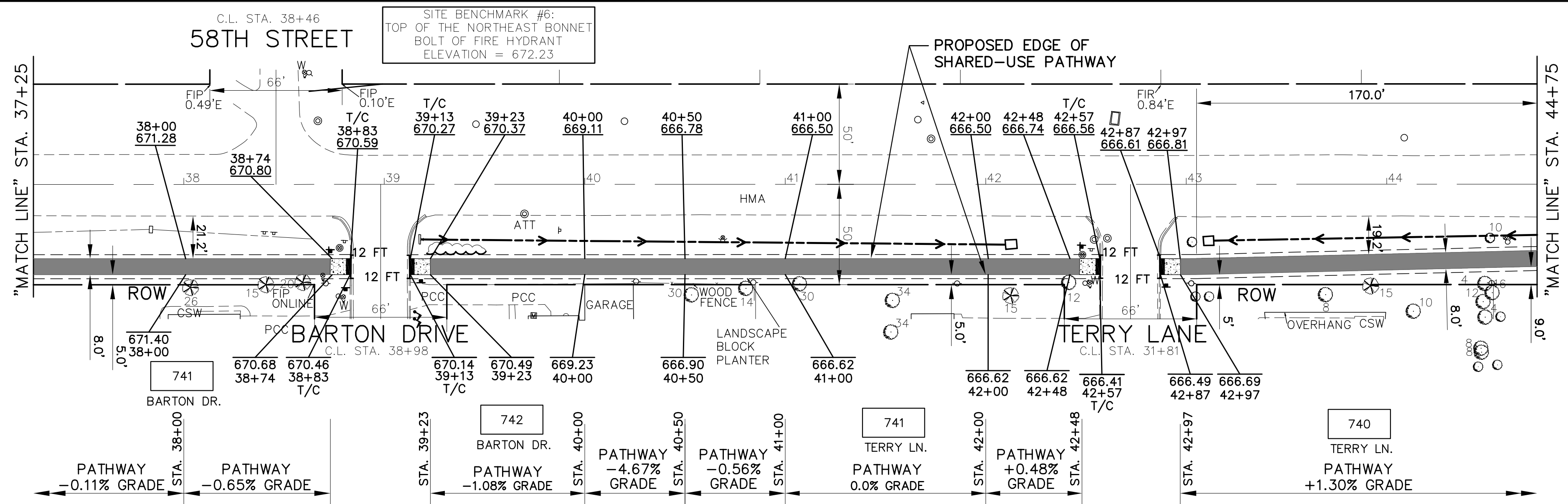
NOTE:
ALL TREES MUST BE PLANTED A MINIMUM OF 4' FROM THE PROPOSED DITCH LINE

FOR CONTINUATION
SEE SHEET 17

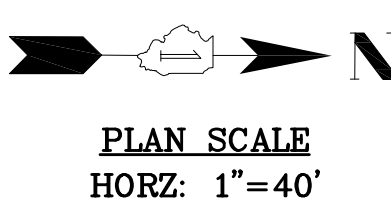
FOR CONTINUATION
SEE SHEET 19

FILE NAME CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAU 1504 (55TH STREET) SHARED-USE PATHWAY	USER NAME =	DESIGNED - THK	REVISED - 11-26-18 IDOT REVIEW	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE: BRAINARD AVENUE - (SHARED-USE PATHWAY) STA. 29+75 TO STA. 37+25 (EXISTING & PROPOSED ROADWAY SHARED-USE PATHWAY PLAN)	F.A.U. R.T.E. 2704	SECTION 14-00041-00-BT	COUNTY COOK	TOTAL SHEETS 47	SHEET NO. 18
#13250	PLOT SCALE =	DRAWN - JFP	REVISED - 12-03-18 COOK COUNTY		SCALE: AS NOTED	SHEET NO. OF SHEETS	CONTRACT NO. 61F60		ILLINOIS FED. AID PROJECT	
	PLOT DATE =	CHECKED - THK	REVISED - 12-10-18 COOK COUNTY		STA. 29+75 TO STA. 37+25					
		DATE - 8/18	REVISED - 12-17-18 IDOT REVIEW							
			REVISED - 1-30-19 COOK COUNTY							

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-000928



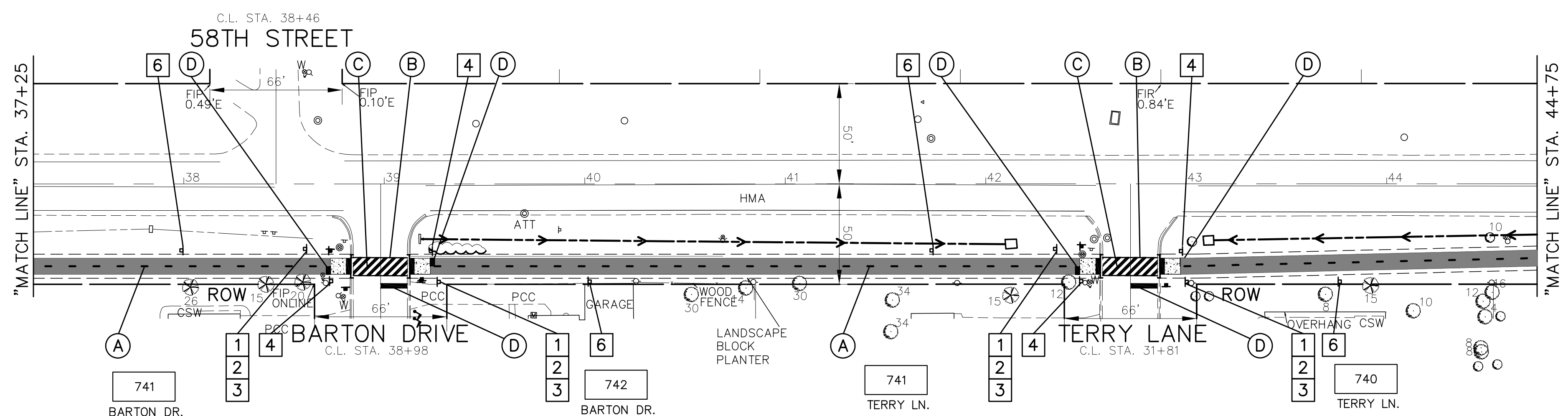
PAVING AND GRADES



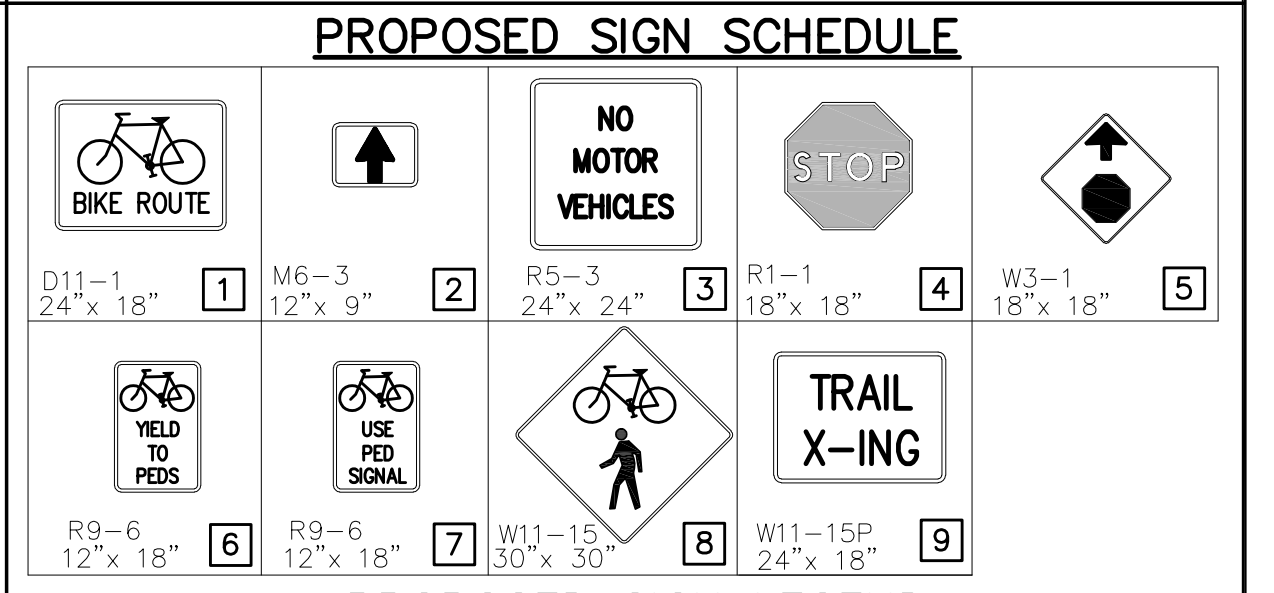
- PROPOSED PAVEMENT LEGEND**
- DENOTES HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1-3/4 INCH ON HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4 INCH ON AGGREGATE BASE COURSE, TYPE B, 6 INCH. TRIAXIAL GEOGRID REINFORCEMENT, TYPE 1
 - DENOTES PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH ON SUBBASE GRANULAR MATERIAL, 2 INCH
 - DENOTES PAVEMENT REPLACEMENT - HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3" (IN TWO LIFTS)
 - DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH ON SUBBASE GRANULAR MATERIAL, 4" (8' WIDTH x 10'± LENGTH, TYPICAL)
 - DENOTES CLASS D PATCHES, 8 INCH. - AS DIRECTED AT LOCATIONS DIRECTED BY THE ENGINEER
 - DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH WITH DETECTABLE WARNINGS (SPECIAL), CAST IRON PER I.D.O.T. STANDARD FOR HANDICAP RAMPS (WHERE APPLICABLE) SEE CONSTRUCTION HIGHWAY STANDARDS 2% GRADE, TYPICAL
 - DENOTES COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- PROPOSED LEGEND**
- "PE" DENOTES PRIVATE ENTRANCE
 - "CE" DENOTES COMMERCIAL ENTRANCE
 - PROPOSED GRADING AND SHAPING DITCHES (WITH FLOW DIRECTION ARROW)
 - PROPOSED PRECAST REINFORCED CONCRETE FLARED END SECTION
 - REMOVE AND RELAY END SECTION
 - PROPOSED CATCH BASIN
 - PROPOSED RELOCATED FIRE HYDRANT
 - PROPOSED RELOCATED MAILBOX

FOR CONTINUATION SEE SHEET 18

FOR CONTINUATION SEE SHEET 20



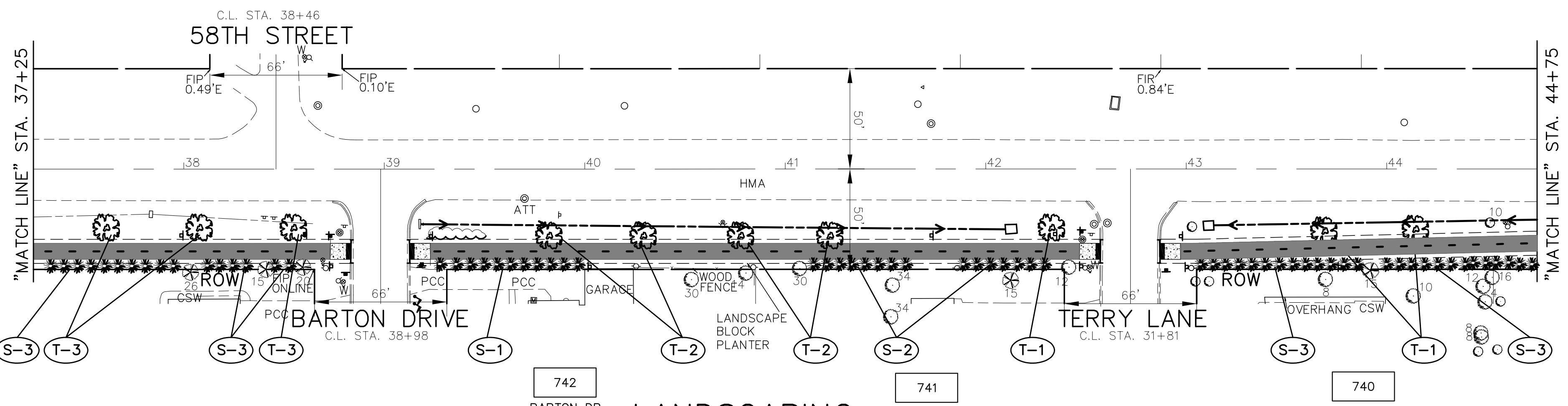
PAVEMENT MARKING AND SIGNING



- PROPOSED SIGN LEGEND**
- PROPOSED SIGN
 - RELOCATED SIGN
- THERMOPLASTIC PAVEMENT MARKING CODE**
- A LANE LINE - DASHED YELLOW THERMOPLASTIC PAVEMENT MARKING - LINE 4", 3' DASH, 9' SKIP
 - B PATHWAY CROSSWALK - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 12", 45'
 - C PATHWAY CROSSWALK - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 6"
 - D STOP BAR - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 24"
- NOTE:** PROPOSED MINIMUM CLEARANCE FOR SIGN PLACEMENT SHALL BE 2' OFF EDGE OF PATHWAY TO INSIDE EDGE OF SIGN

FOR CONTINUATION SEE SHEET 18

FOR CONTINUATION SEE SHEET 20



LANDSCAPING BRAINARD AVENUE

- PROPOSED LANDSCAPE LEGEND**
- SHADE TREES**
- T-1 GINKGO BILOBA AUTUMN GOLD
 - T-2 ACER X FREEMANII AUTUMN BLAZE
 - T-3 QUERCUS ALBA
- DECIDUOUS SHRUBS**
- S-1 VIBURNAUM DENTATUM
 - S-2 ARONIA ARBUTIFOLIA
 - S-3 MYRICA PENNSYLVANICA
- DENOTES TREE CODE. SEE SHEET 22 FOR PLANT LIST
- PROPOSED TREE
- GRAPHIC SCALE IN FEET

NOTE: ALL TREES MUST BE PLANTED A MINIMUM OF 4' FROM THE PROPOSED DITCH LINE

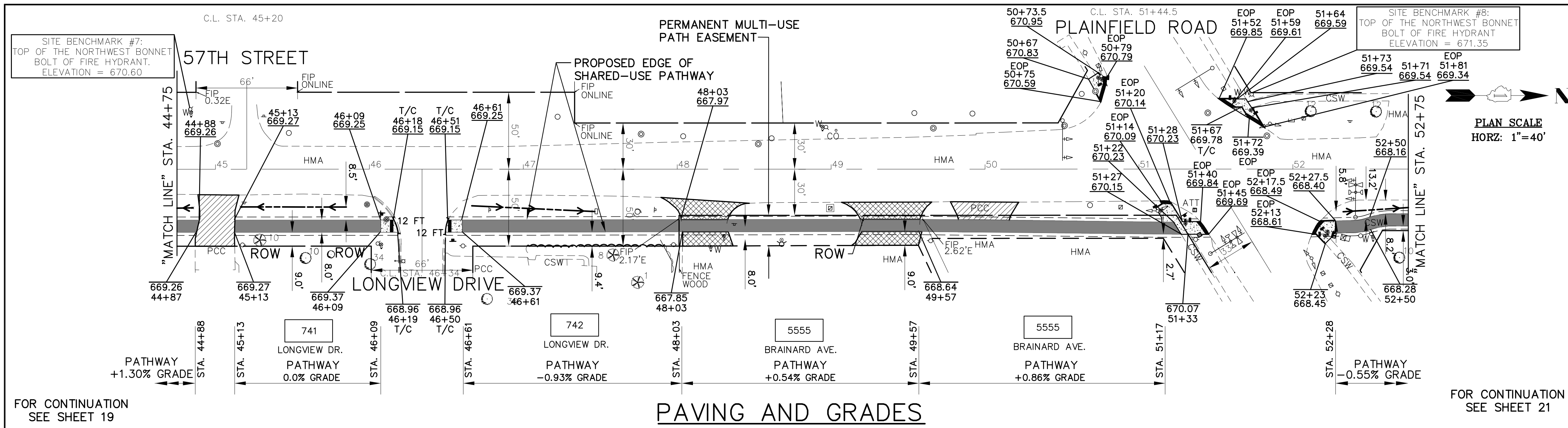
FOR CONTINUATION SEE SHEET 18

FOR CONTINUATION SEE SHEET 20

IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-000928

FILE NAME CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET) SHARED-USE PATHWAY	USER NAME =	DESIGNED - THK	REVISED - 11-26-18 IDOT REVIEW	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE: BRAINARD AVENUE - (SHARED-USE PATHWAY) STA. 39+25 TO STA. 44+75 (EXISTING & PROPOSED ROADWAY SHARED-USE PATHWAY PLAN)	F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN - JFP	REVISED - 12-03-18 COOK COUNTY			2704	14-00041-00-BT	COOK	47	19
#13250	PLOT DATE =	CHECKED - THK	REVISED - 12-10-18 COOK COUNTY		SCALE: AS NOTED	SHEET NO.	OF SHEETS	STA. 39+25 TO STA. 44+75	CONTRACT NO. 61F60	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT
		DATE - 8/18	REVISED - 12-17-18 IDOT REVIEW							
			REVISED - 1-30-19 COOK COUNTY							

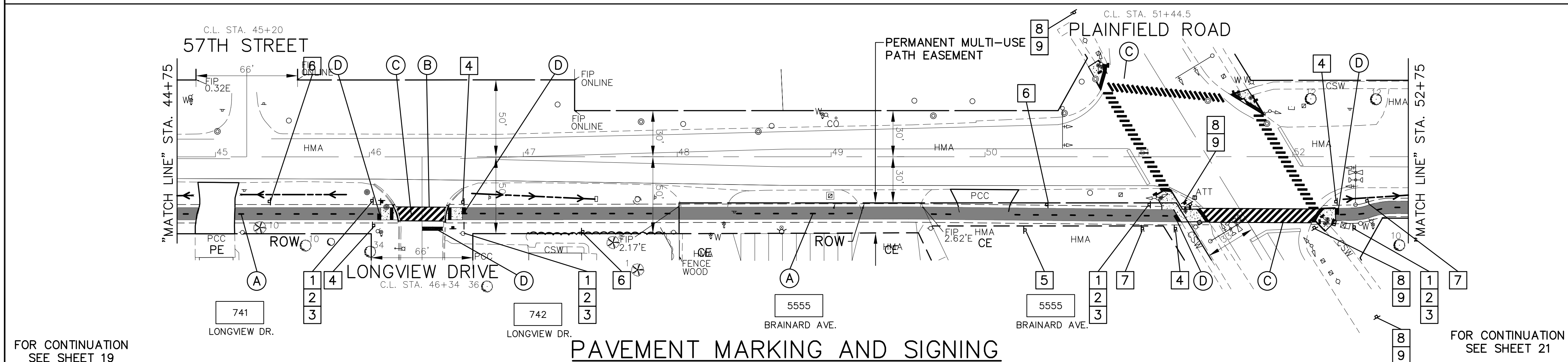


PROPOSED PAVEMENT LEGEND

- DENOTES HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1-3/4 INCH ON HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4 INCH ON AGGREGATE BASE COURSE, TYPE B, 6 INCH. TRIAXIAL GEOGRID REINFORCEMENT, TYPE 1
- DENOTES PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH ON SUBBASE GRANULAR MATERIAL, 2 INCH
- DENOTES PAVEMENT REPLACEMENT - HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3" (IN TWO LIFTS)
- DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH ON SUBBASE GRANULAR MATERIAL, 4" (8' WIDTH x 10'± LENGTH, TYPICAL)
- DENOTES CLASS D PATCHES, 8 INCH. - AS DIRECTED AT LOCATIONS DIRECTED BY THE ENGINEER
- DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH WITH DETECTABLE WARNINGS (SPECIAL), CAST IRON PER I.D.O.T. STANDARD FOR HANDICAP RAMPS (WHERE APPLICABLE) SEE CONSTRUCTION HIGHWAY STANDARDS 2% GRADE, TYPICAL
- DENOTES COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12

PROPOSED LEGEND

- "PE" DENOTES PRIVATE ENTRANCE
- "CE" DENOTES COMMERCIAL ENTRANCE
- PROPOSED GRADING AND SHAPING DITCHES (WITH FLOW DIRECTION ARROW)
- PROPOSED PRECAST REINFORCED CONCRETE FLARED END SECTION REMOVE AND RELAY END SECTION
- PROPOSED CATCH BASIN
- PROPOSED RELOCATED FIRE HYDRANT
- PROPOSED RELOCATED MAILBOX



PROPOSED SIGN SCHEDULE

D11-1 24"x 18"	M6-3 12"x 9"	R5-3 24"x 24"	R1-1 18"x 18"
1	2	3	4
R9-6 12"x 18"	R9-6 12"x 18"	W1-15 30"x 30"	W11-15P 24"x 18"
6	7	8	9

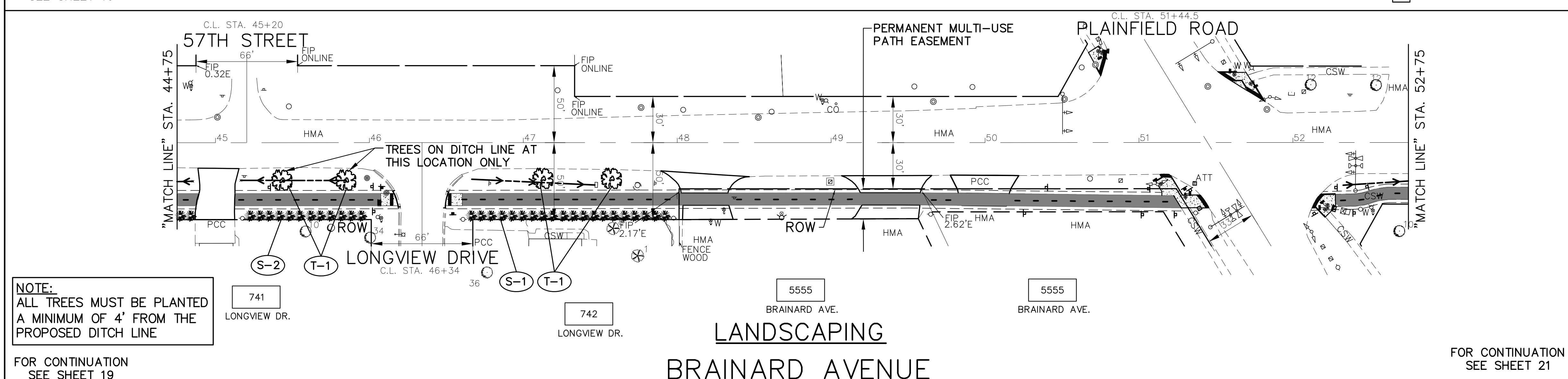
PROPOSED SIGN LEGEND

- PROPOSED SIGN
- RELOCATED SIGN

THERMOPLASTIC PAVEMENT MARKING CODE

- A LANE LINE - DASHED YELLOW THERMOPLASTIC PAVEMENT MARKING - LINE 4", 3' DASH, 9' SKIP
- B PATHWAY CROSSWALK - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 12", 45'
- C PATHWAY CROSSWALK - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 6"
- D STOP BAR - SOLID WHITE THERMOPLASTIC PAVEMENT MARKING - LINE 24"

NOTE:
PROPOSED MINIMUM CLEARANCE FOR SIGN PLACEMENT SHALL BE 2' OFF EDGE OF PATHWAY TO INSIDE EDGE OF SIGN



PROPOSED LANDSCAPE LEGEND

SHADE TREES

- T-1 GINKGO BILOBA AUTUMN GOLD
- T-2 ACER X FREEMANII AUTUMN BLAZE
- T-3 QUERCUS ALBA

DECIDUOUS SHRUBS

- S-1 VIBURNAUM DENTATUM
- S-2 ARONIA ARBUTIFOLIA
- S-3 MYRICA PENNSYLVANICA

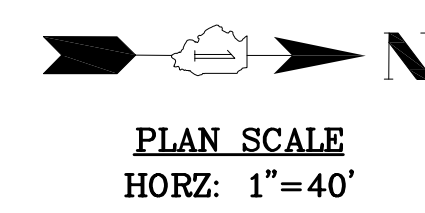
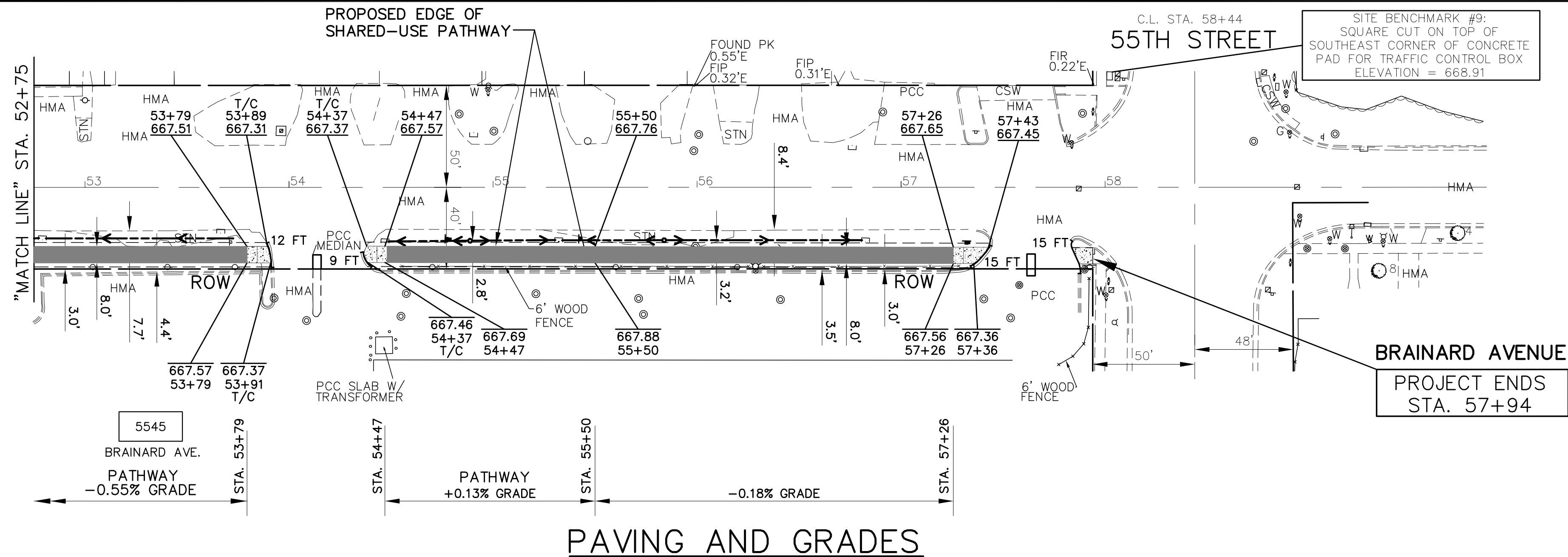
DENOTES TREE CODE. SEE SHEET 22 FOR PLANT LIST

PROPOSED TREE

GRAPHIC SCALE
IN FEET

IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

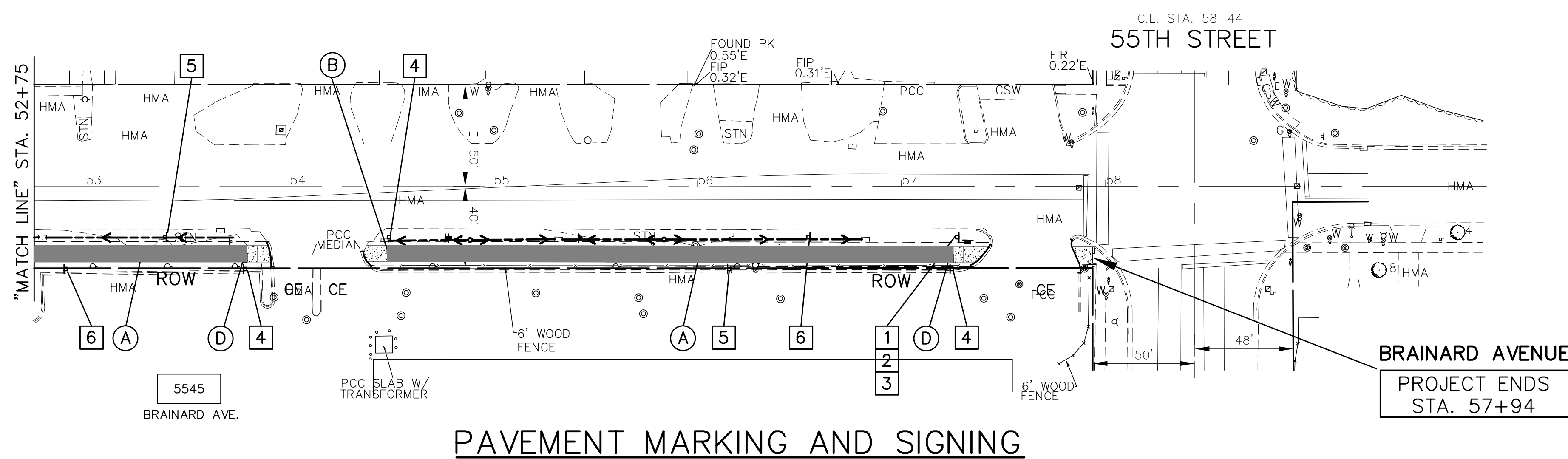
FILE NAME CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET) SHARED-USE PATHWAY	USER NAME =	DESIGNED - THK	REVISED - 11-26-18 IDOT REVIEW	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE: BRAINARD AVENUE - (SHARED-USE PATHWAY) STA. 44+75 TO STA. 52+75 (EXISTING & PROPOSED ROADWAY SHARED-USE PATHWAY PLAN)	F.A.U. R.T.E. 2704	SECTION 14-00041-00-BT	COUNTY COOK	TOTAL SHEETS 47	SHEET NO. 20	
#13250	PLOT SCALE =	DRAWN - JFP	REVISED - 12-03-18 COOK COUNTY		SCALE: AS NOTED	SHEET NO. OF SHEETS	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 61F60		
	PLOT DATE =	CHECKED - THK	REVISED - 12-10-18 COOK COUNTY		STA. 44+75 TO STA. 52+75						
		DATE - 8/18	REVISED - 12-17-18 IDOT REVIEW								
			REVISED - 1-30-19 COOK COUNTY								



- PROPOSED PAVEMENT LEGEND**
- DENOTES HOT-MIX ASPHALT SURFACE COURSE, MIX C, N50, 1-3/4 INCH ON HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50, 2-1/4 INCH ON AGGREGATE BASE COURSE, TYPE B, 6 INCH. TRIAXIAL GEOGRID REINFORCEMENT, TYPE 1
 - ▨ DENOTES PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH ON SUBBASE GRANULAR MATERIAL, 2 INCH
 - ▩ DENOTES PAVEMENT REPLACEMENT - HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 3" (IN TWO LIFTS)
 - ▧ DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH ON SUBBASE GRANULAR MATERIAL, 4" (8' WIDTH x 10'± LENGTH, TYPICAL)
 - ▦ DENOTES CLASS D PATCHES, 8 INCH. - AS DIRECTED AT LOCATIONS DIRECTED BY THE ENGINEER
 - DENOTES PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH WITH DETECTABLE WARNINGS (SPECIAL), CAST IRON PER I.D.O.T. STANDARD FOR HANDICAP RAMPS (WHERE APPLICABLE) SEE CONSTRUCTION HIGHWAY STANDARDS 2% GRADE, TYPICAL
 - 8 FT DENOTES COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
 - "PE" DENOTES PRIVATE ENTRANCE
 - "CE" DENOTES COMMERCIAL ENTRANCE
- PROPOSED LEGEND**
- PROPOSED GRADING AND SHAPING DITCHES (WITH FLOW DIRECTION ARROW)
 - ◀ PROPOSED PRECAST REINFORCED CONCRETE FLARED END SECTION REMOVE AND RELAY END SECTION
 - PROPOSED CATCH BASIN
 - PROPOSED RELOCATED FIRE HYDRANT
 - PROPOSED RELOCATED MAILBOX

FOR CONTINUATION SEE SHEET 20

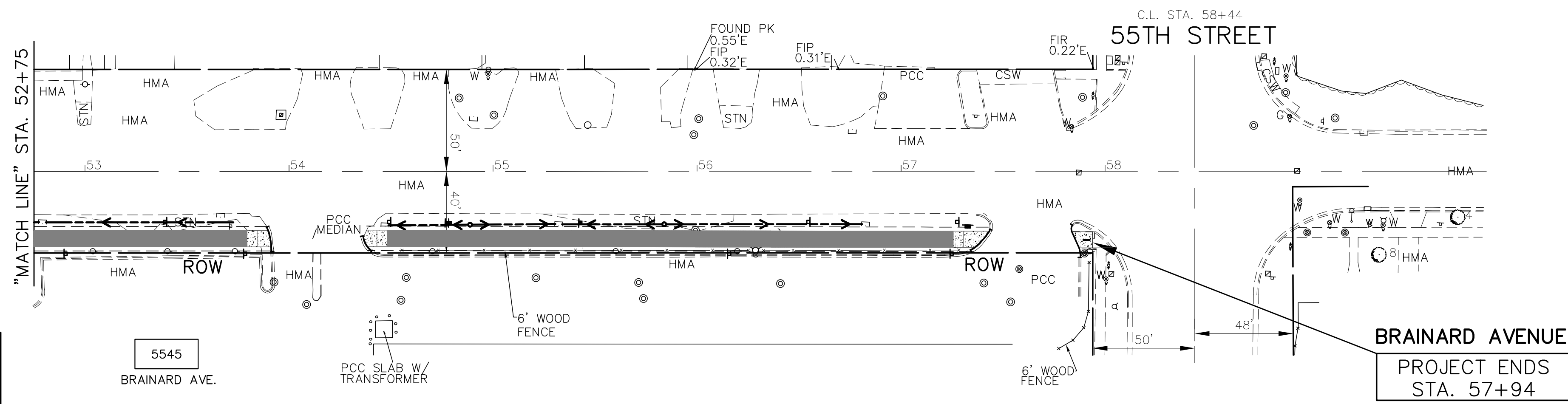
PAVING AND GRADES



- PROPOSED SIGN SCHEDULE**
- | | | | |
|------------------|-------------------|--------------------|--------------------|
| BIKE ROUTE | NO MOTOR VEHICLES | STOP | TRAIL X-ING |
| D11-1 24"x 18" 1 | M6-3 12"x 9" 2 | R5-3 24"x 24" 3 | R1-1 18"x 18" 4 |
| YIELD TO PEDES | USE PED SIGNAL | RELOCATED SIGN | RELOCATED SIGN |
| R9-6 12"x 18" 6 | R9-6 12"x 18" 7 | W11-15P 30"x 30" 8 | W11-15P 24"x 18" 9 |
- PROPOSED SIGN LEGEND**
- ▭ PROPOSED SIGN
 - ▭ RELOCATED SIGN
- THERMOELASTIC PAVEMENT MARKING CODE**
- (A) LANE LINE - DASHED YELLOW THERMOELASTIC PAVEMENT MARKING - LINE 4", 3" DASH, 9' SKIP
 - (B) PATHWAY CROSSWALK - SOLID WHITE THERMOELASTIC PAVEMENT MARKING - LINE 12", 45'
 - (C) PATHWAY CROSSWALK - SOLID WHITE THERMOELASTIC PAVEMENT MARKING - LINE 6"
 - (D) STOP BAR - SOLID WHITE THERMOELASTIC PAVEMENT MARKING - LINE 24"
- NOTE:** PROPOSED MINIMUM CLEARANCE FOR SIGN PLACEMENT SHALL BE 2' OFF EDGE OF PATHWAY TO INSIDE EDGE OF SIGN

FOR CONTINUATION SEE SHEET 20

PAVEMENT MARKING AND SIGNING



- PROPOSED LANDSCAPE LEGEND**
- NOTE:** NO TREE OR SHRUB PLANTINGS STA. 47+50 TO STA. 57+94
- GRAPHIC SCALE
IN FEET
0 40 80
- IMPORTANT!**
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

NOTE: ALL TREES MUST BE PLANTED A MINIMUM OF 4' FROM THE PROPOSED DITCH LINE

FOR CONTINUATION SEE SHEET 20

**LANDSCAPING
BRAINARD AVENUE**

FILE NAME CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET) SHARED-USE PATHWAY	USER NAME =	DESIGNED - THK	REVISED - 11-26-18 IDOT REVIEW	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE: BRAINARD AVENUE - (SHARED-USE PATHWAY) STA. 52+75 TO FAP 1504 (55TH STREET) (EXISTING & PROPOSED ROADWAY SHARED-USE PATHWAY PLAN)	F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	CHECKED - THK	REVISED - 12-03-18 COOK COUNTY			2704	14-00041-00-BT	COOK	47	21
#13250	PLOT DATE =	DATE - 8/18	REVISED - 12-10-18 COOK COUNTY		SCALE: AS NOTED	SHEET NO.	OF SHEETS	STA. 52+75 TO STA. 26+00	CONTRACT NO. 61F60	
			REVISED - 12-17-18 IDOT REVIEW						FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	
			REVISED - 1-30-19 COOK COUNTY							

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Wilmette, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-000928

GENERAL PLANTING SPECIFICATIONS

1. FIELD VERIFICATION

THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD PRIOR TO BIDDING AND REPORT ANY DISCREPANCIES TO THE OWNER OR HIS REPRESENTATIVE.

2. PROTECTION OF EXISTING SITE AND EXISTING SITE FEATURES

THE CONTRACTOR SHALL PROVIDE, AT HIS OWN EXPENSE, PROTECTION AGAINST TRESPASSING AND DAMAGE TO SEEDED AREAS, PLANTED AREAS, AND OTHER CONSTRUCTION AREAS UNTIL THE PRELIMINARY ACCEPTANCE. HE SHALL PROVIDE BARRICADES, TEMPORARY FENCING, SIGNS, AND WRITTEN WARNING OR POLICING AS MAY BE REQUIRED TO PROTECT SUCH AREAS. THE CONTRACTOR SHALL NOT BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY THE OWNER AFTER SUCH WARNING HAS BEEN ISSUED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL EXISTING ABOVE AND BELOW GROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF CROWNS, TRUNKS AND ROOTS OF EXISTING TREES, SHRUBS, LAWNS, PAVED AREA AND OTHER EXISTING LANDSCAPED AREAS THAT ARE TO REMAIN. EXISTING TREES, WHICH MAY BE SUBJECT TO CONSTRUCTION DAMAGE, SHALL BE BOXED, FENCED, OR OTHERWISE PROTECTED BEFORE ANY WORK IS STARTED. BOXING OR OTHER PROTECTION WILL BE REMOVED AT THE END OF CONSTRUCTION. DO NOT LOCATE HEAVY EQUIPMENT OR STOCKPILES WITHIN THE DRIP-LINE OF EXISTING PLANTS OR ON LAWNS. ANY DAMAGE TO UTILITIES, STRUCTURES, PLANTINGS, OR LAWN WHICH RESULTS FROM THE CONTRACTOR'S EXPENSE IN A REASONABLE SHORT PERIOD OF TIME, WITH AS LITTLE INCONVENIENCE TO THE OWNER AS POSSIBLE.

3. PLANTING TECHNIQUES

ALL PLANTING TECHNIQUES AND METHODS SHALL BE CONSISTENT WITH THE LATEST EDITION OF "HORTICULTURE STANDARDS OF NURSERYMEN, INC.", AND AS DETAILED ON THESE DRAWINGS. ALL DECIDUOUS PLANT MATERIAL SHALL BE THIN PRUNED TO REMOVE 1/3 INTERIOR BRANCHED, DEAD BRANCHES AND BROKEN BRANCHES. PRUNING SHALL COMPLEMENT PLANTS NATURAL FORM. ABSOLUTELY NO TIP PRUNING IS ALLOWED, EXCEPT HEDGES. ANY PLANT THAT IS TIP PRUNED IS SUBJECT TO REJECTION BY THE LANDSCAPE ARCHITECT. EVERGREEN TREES AND SHRUBS SHALL BE PRUNED OF DEAD AND BROKEN BRANCHES AND AS DIRECTED BY THE LANDSCAPE ARCHITECT. ALL PRUNING WORK SHALL BE DONE WITH HAND PRUNERS ONLY.

4. INSPECTION OF PLANT MATERIAL

ALL PLANT MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL. THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY PLANTS WHICH FAIL TO MEET THIS INSPECTION. ALL REJECTED MATERIAL SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR. HEIGHT OF EVERGREEN TREES ARE MEASURED FROM THE GROUND TO THE FIRST LATERAL BRANCH CLOSEST TO THE TOP. HEIGHT AND/OR WIDTH OF OTHER PLANTS SO SPECIFIED ARE MEASURED BY THE MASS OF THE PLANT NOT THE VERY TIP OF THE BRANCHES. ALL PLANT MATERIAL SHALL BE GROWN AND SUPPLIED WITHIN A 50 MILE RADIUS OF THE PROJECT.

5. PLANT SUBSTITUTION

SUBSTITUTION FROM THE SPECIFIED LIST WILL BE ACCEPTED ONLY WHEN SATISFACTORY EVIDENCE IN WRITING IS SUBMITTED TO THE LANDSCAPE ARCHITECT, SHOWING THAT THE PLANT SPECIFIED IS NOT AVAILABLE. REQUESTS FOR APPROVAL OF SUBSTITUTE PLANT MATERIAL SHALL INCLUDE COMMON AND BOTANICAL NAMES AND SIZE OF SUBSTITUTE MATERIAL. ONLY THOSE SUBSTITUTIONS OF AT LEAST EQUIVALENT SIZE AND HAVING ESSENTIAL CHARACTERISTICS SIMILAR TO THE ORIGINALLY SPECIFIED MATERIAL WILL BE APPROVED. ACCEPTANCE OR REJECTION OF SUBSTITUTE PLANT MATERIALS WILL BE ISSUED IN WRITING BY THE LANDSCAPE ARCHITECT.

6. PLANTING SOIL - TREES, SHRUBS

PLANTING SOIL MIXTURE AS FOLLOWS:

- 1/3 TOPSOIL
- 1/3 SAND
- 1/3 MUSHROOM COMPOST

7. PLANTING SOIL - PERENNIALS AND ORNAMENTAL GRASSES

PLANTING SOIL MIXTURE AS FOLLOWS:

- 1/3 TOPSOIL
- 1/3 SAND
- 1/3 MUSHROOM COMPOST

7a. PLANTING SOIL - PLANTERS

PLANTING SOIL MIXTURE AS FOLLOWS:

- CM63 CONTAINER MIX BY MIDWEST TRADING OR SIMILAR APPROVED.

8. STAKING AND GUYING

A. GUY AND STAKE DECIDUOUS TREES IF CONDITIONS WARRANT, OR AS REQUESTED BY THE LANDSCAPE ARCHITECT. ONE (1) STAKE TO BE USED ON TREES OF 1" CALIPER AND UNDER, OR 4' HEIGHT AND UNDER. TWO (2) STAKES TO BE USED ON TREES OF 1" TO 2 3/4" CALIPER. GUY TREES OF 3" CALIPER OR LARGER AT THREE (3) PER TREE.

B. GUY ALL EVERGREEN TREES. USE THREE (3) GUYS PER TREE. PROVIDE ALTERNATIVE PRICE TO GUY ALL TRANSPLANT EVERGREENS.

9. TREE WRAP

WRAP TREE SPIRALLY WITH APPROVED TREE WRAPPING TAPE THAT IS NOT LESS THAN 4" WIDE, AND SECURELY TIE WITH SUITABLE CORD AT THE TOP, BOTTOM, AND 2" INTERVALS ALONG THE TRUNK. WRAP FROM GROUND TO THE HEIGHT OF THE FIRST BRANCH.

10. MULCH

ALL INDIVIDUAL TREES SHALL BE MULCHED WITH A MINIMUM OF 3" FINELY SHREDDED BARK MULCH.

11. PRE-EMERGENT HERBICIDE

ALL PLANTING BEDS TO BE COVERED WITH BARK MULCH SHALL BE TREATED WITH A PRE-EMERGENT HERBICIDE PRIOR TO BARK INSTALLATION. PLANTING BED SHALL BE WEED FREE PRIOR TO HERBICIDE APPLICATION.

12. FERTILIZER TABLET SCHEDULE

WOODACE 14-3-3 BRIQUETTES 17 GRAM

4" CALIPER TREE	=	24 BRIQUETTES PER PLANT
3 1/2" CALIPER TREE	=	20 BRIQUETTES PER PLANT
3" CALIPER TREE	=	18 BRIQUETTES PER PLANT
2 1/2" CALIPER TREE	=	15 BRIQUETTES PER PLANT
2" CALIPER TREE	=	12 BRIQUETTES PER PLANT
1 1/2" CALIPER TREE	=	10 BRIQUETTES PER PLANT
7-10' HEIGHT TREE	=	10 BRIQUETTES PER PLANT
4-6' HEIGHT TREE	=	6 BRIQUETTES PER PLANT
48" SHRUB	=	12 BRIQUETTES PER PLANT
36" SHRUB	=	10 BRIQUETTES PER PLANT
18-24" SHRUB	=	6 BRIQUETTES PER PLANT

PERENNIALS OR GROUNDCOVERS

QUART POT SIZE = 1-2 BRIQUETTES PER PLANT

13. TOPSOIL

A. SHALL BE SPREAD OVER ALL AREAS TO BE PLANTED TO A MINIMUM DEPTH OF 12" WHEN COMPACTED TO BE PERFORMED BY OTHERS.

B. TOPSOIL SPEC

TOPSOIL SHALL HAVE THE FOLLOWING MECHANICAL ANALYSIS:

TEXTURAL CLASS	% OF TOTAL WEIGHT	AVERAGE %
SAND (0.05-2.0 MIL. DIA. RANGE)	5-25	20
SILT (0.002-0.05 MIL. DIA. RANGE)	20-50	40
CLAY (LESS THAN 0.002 MIL. DIA. RANGE)	20-50	40

1. 95% OF TOPSOIL SHALL PASS A 2.0 MIL. SIEVE.
2. TOPSOIL SHALL BE FREE OF STONES 1 IN. IN LONGEST DIMENSION, EARTH CLODS, PLANT PARTS AND DEBRIS.
3. ORGANIC MATTER CONTENT SHALL BE 4-12% OF TOTAL DRY WEIGHT.

C. TOPSOIL SHALL HAVE A pH VALUE RANGE OF 6.0 TO 7.0. IF THE SOIL DOES NOT FALL WITHIN THE pH RANGE SPECIFIED, IT MAY BE AMENDED TO BRING IT WITHIN THE SPECIFIED LIMIT.

D. SOIL TESTS

1. OBTAIN THE FOLLOWING INFORMATION ON THE TOPSOIL AND SUBMIT IT TO THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING WITH WORK. SUCH INFORMATION SHALL BE OBTAINED FROM TESTS PERFORMED BY AN INDEPENDENT TESTING LABORATORY ACCEPTABLE TO THE LANDSCAPE ARCHITECT. THIS WILL BE AT NO ADDITIONAL EXPENSE TO THE OWNER.

- A. SOIL pH AND RECOMMENDATIONS ON THE TYPE AND QUANTITY OF SOIL ADDITIVES REQUIRED, IF ANY, TO BRING THE EXISTING pH WITHIN THE DESIRED RANGE.
- B. PERCENTAGE OF ORGANIC MATTER AND RECOMMENDATIONS ON THE TYPE AND QUANTITY OF SOIL ADDITIVES REQUIRED, IF ANY, TO BRING THE ORGANIC MATTER TO A SATISFACTORY LEVEL FOR PLANTINGS.
- C. N-P-K ANALYSIS AND RECOMMENDATIONS ON THE TYPE AND QUANTITY OF ADDITIVES REQUIRED, IF ANY, TO ESTABLISH SATISFACTORY NUTRIENT LEVELS FOR PLANTINGS.

E. SOIL PREPARATION

AREAS WHERE VEHICULAR TRAFFIC HAS COMPACTED THE TOP SOIL SHALL BE LOOSENED/SCARIFIED TO A MINIMUM DEPTH OF 12" BEFORE FERTILIZING AND PLANTING. FINE GRADING OF ALL PLANTING AREAS IS REQUIRED. MAXIMUM SIZE OF STONE OR TOPSOIL LUMP IS 1".

14. WATERING

A. PLANTING AREAS AND TURF SHALL BE WATERED TO INSURE PROPER ESTABLISHMENT. ONCE PLANTS AND TURF ARE ESTABLISHED, WATERING MAY BE DECREASED BUT THE PLANTS AND TURF MUST NEVER BE ALLOWED TO DRY OUT COMPLETELY. FREQUENT WATERING SHOULD BE CONTINUED FOR APPROXIMATELY FOUR (4) WEEKS OR UNTIL PLANTS AND TURF HAVE BECOME SUFFICIENTLY ESTABLISHED TO WARRANT WATERING ON AN "AS NEEDED" BASIS.

B. ESTABLISHMENT

PLANTS AND TURF ARE BEING ESTABLISHED IN A VARIETY OF CONDITIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE AND IMPLEMENT WHATEVER PROCEDURES HE DEEMS NECESSARY TO ESTABLISH THE PLANTS AND TURF AS PART OF HIS WORK. PLANTED AREAS AND TURF WILL BE ACCEPTED WHEN ALL AREAS ARE IN HEALTHY CONDITION AND AT LEAST 90 DAYS HAVE ELAPSED SINCE THE COMPLETION OF THIS WORK. THE CONTRACTOR SHALL SUBMIT WITH HIS BID A DESCRIPTION OF THE METHODS AND PROCEDURES HE INTENDS TO USE.

15. PRELIMINARY ACCEPTANCE

ALL PLANTINGS SHALL BE MAINTAINED BY THE CONTRACTOR FOR A PERIOD OF 90 DAYS AFTER PRELIMINARY ACCEPTANCE BY THE OWNER OR HIS REPRESENTATIVE. MAINTENANCE SHALL INCLUDE, BUT IS NOT LIMITED TO, PRUNING PLANT MATERIAL, PULLING WEEDS, WATERING PLANT MATERIAL, AND PERENNIAL FLOWER MAINTENANCE.

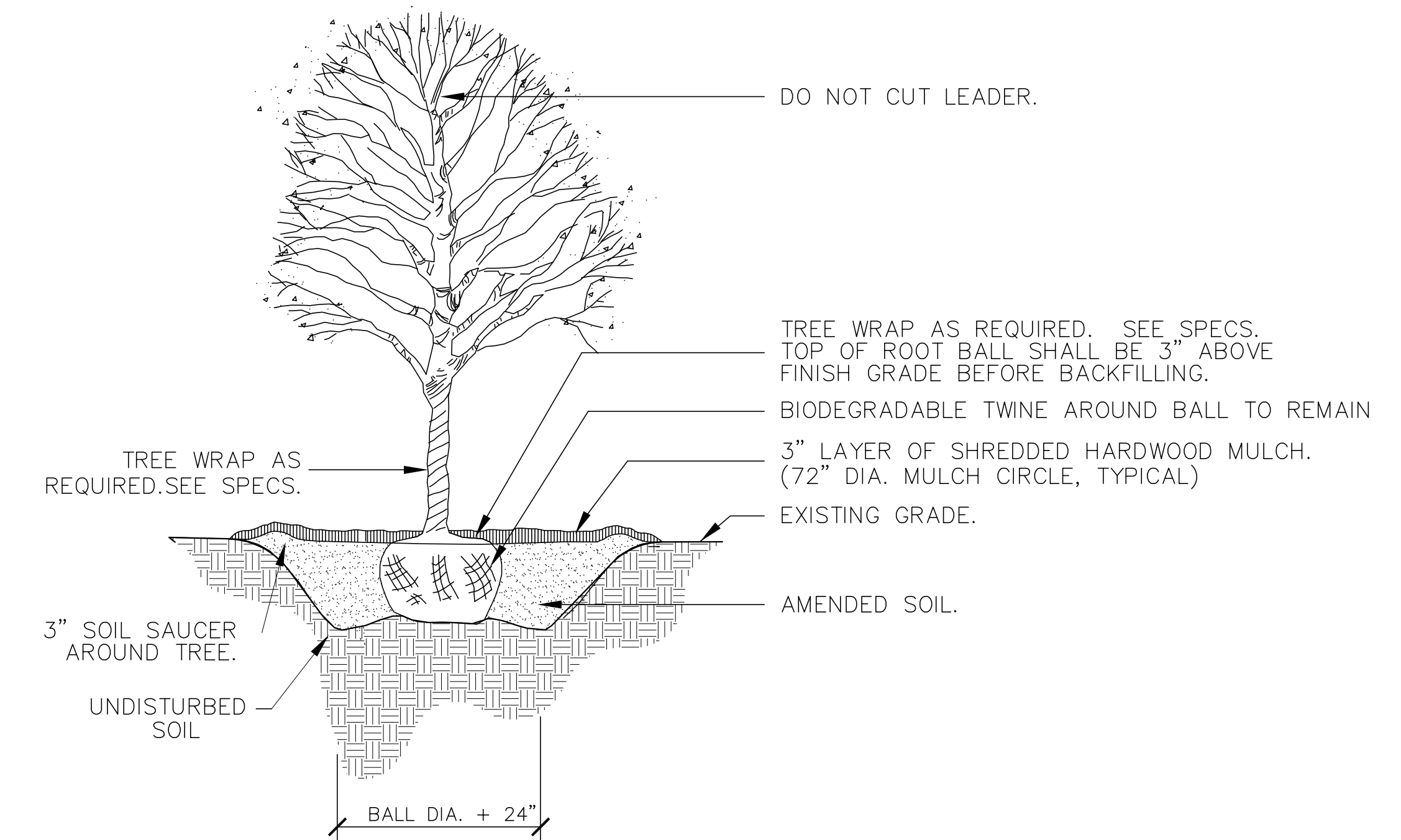
16. FINAL ACCEPTANCE

ALL PLANT MATERIAL (EXCLUDING ANNUAL COLOR), SHALL BE GUARANTEED FOR ONE YEAR AFTER THE END OF THE 90 DAY MAINTENANCE PERIOD. THE END OF THE MAINTENANCE PERIOD IS MARKED BY THE FINAL ACCEPTANCE OF THE CONTRACTOR'S WORK BY THE OWNER OR HIS REPRESENTATIVE.

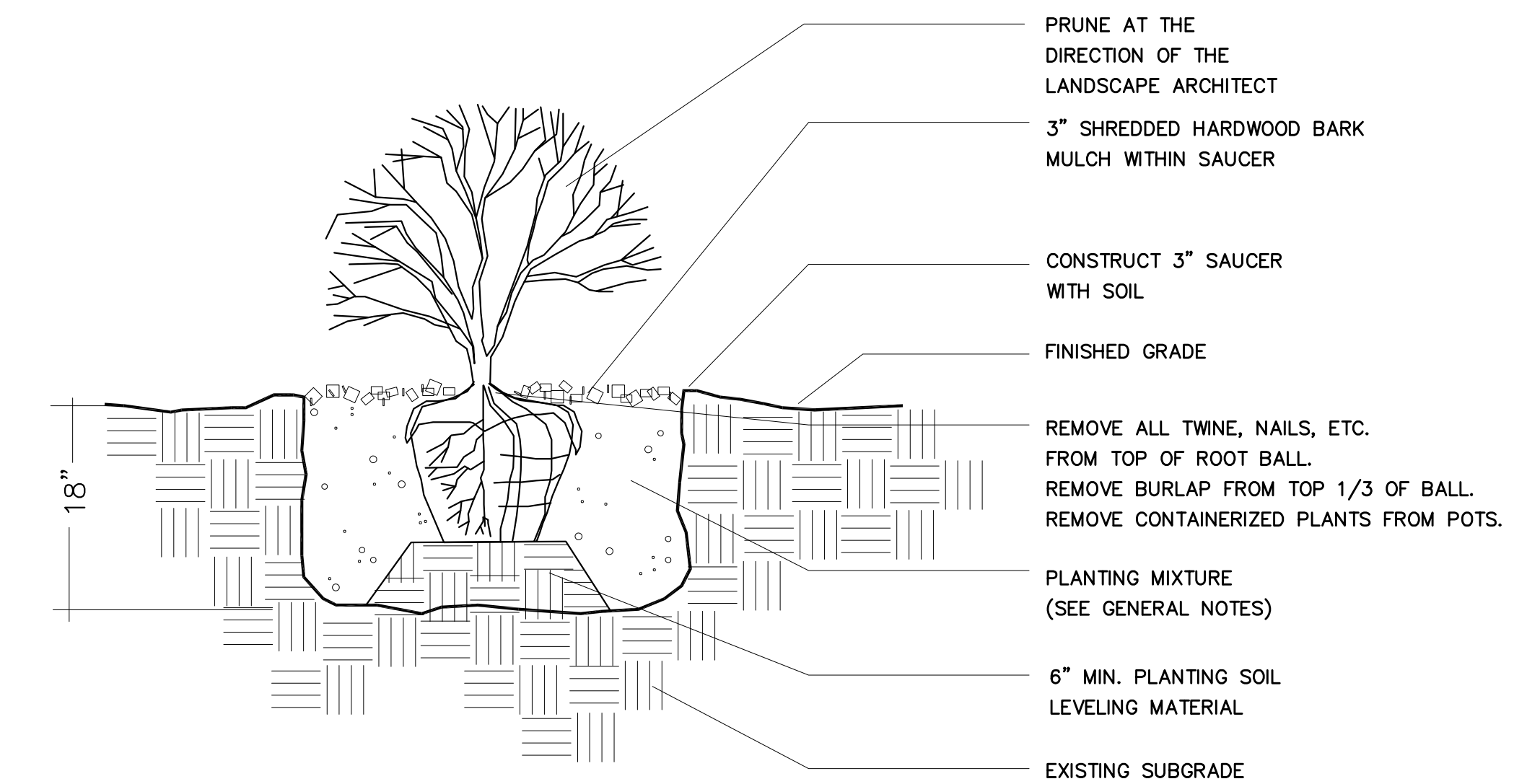
17. SITE CLEAN-UP

THE CONTRACTOR SHALL PROTECT THE PROPERTY OF THE OWNER AND THE WORK OF OTHER CONTRACTORS. THE CONTRACTOR SHALL ALSO BE DIRECTLY RESPONSIBLE FOR ALL DAMAGE CAUSED BY THE ACTIVITIES AND FOR THE DAILY REMOVAL OF ALL TRASH AND DEBRIS FROM HIS WORK AREA TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT.

Code	Botanical Name	Common Name	QTY	Size
Shade Trees				
T-1	Ginkgo Biloba Autumn Gold	Autumn Gold Ginkgo		2 1/2" Cal B & B
T-2	Acer X FreemanII Autumn Blaze	Autumn Blaze Freeman Maple		2 1/2" Cal B & B
T-3	Quercus Alba	White Oak		2 1/2" Cal B & B
Deciduous Shrubs				
S-1	Viburnum Dentatum Morton	Northern Burgundy Arrowwood Viburnum		4' Height B & B
S-2	Aronia Arbutifolia	Grow Low SumacRed Choke Berry		4' Height B & B
S-3	Myrica Pensylvanica	Bayberry		4' Height B & B



DECIDUOUS TREE PLANTING IN GRASS PARKWAY AREAS



SHRUB PLANTING DETAIL

FILE NAME	CITY OF COUNTRYSIDE	USER NAME	=	DESIGNED	- THK	REVISED	- 11-26-18	IDOT REVIEW
	FAU 2704 (BRAINARD AVENUE)			DRAWN	- JFP	REVISED	- 12-03-18	COOK COUNTY
	FAU 3562 (JULIET ROAD) TO FAP 1504 (55TH STREET)			CHECKED	- JEF	REVISED	- 12-10-18	COOK COUNTY
#13250	SHARED-USE PATHWAY			DATE	- 10/18	REVISED	- 12-17-18	IDOT REVIEW

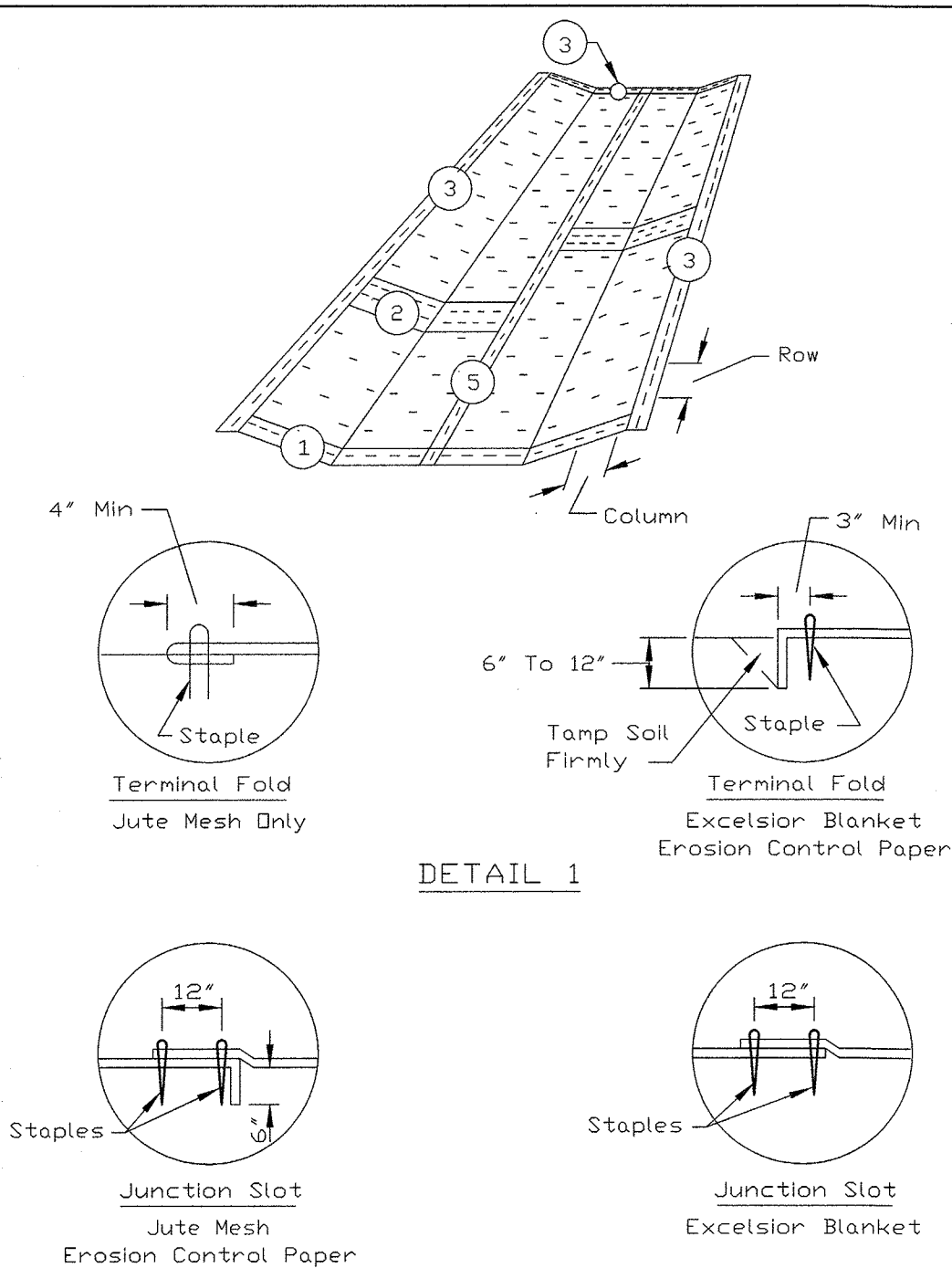
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

GENERAL PLANTING, SPECIFICATIONS, PLANT LIST, PLANTING DETAILS

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

	NOVOTNY ENGINEERING		545 Plainfield Road, Suite A Wiltonbrook, IL 60527	
			T: (630) 887.8640 F: (630) 887.0132	
<small>Illinois Professional Design Firm No. 184-000928</small>				
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	22
			CONTRACT NO. 61F60	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

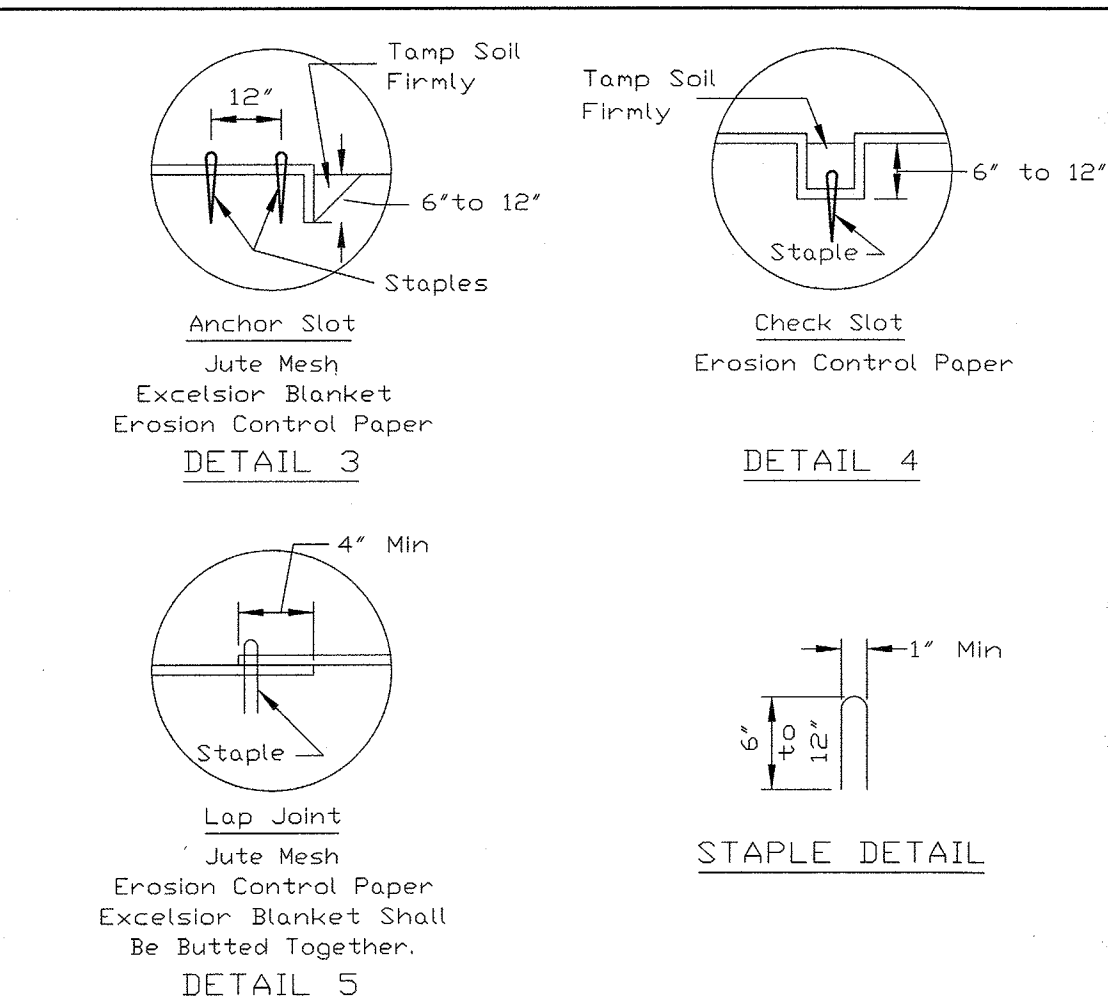
EROSION BLANKET PLAN



REFERENCE	STANDARD DWG. NO.
Project _____	IL-530
Designed _____	DATE 9-24-94
Checked _____	SECT 1 OF 2
Approved _____	



EROSION BLANKET PLAN



- NOTES:
- On erosion control paper, check slots, in ditch channel shall be spaced so that one occurs within each 50' on slopes of more than 4% and less than 6%. On slopes of 6% or more, they shall be spaced so that one occurs within each 25'.
 - Staples are to be placed alternately, in columns approximately 2' apart and in rows approximately 3' apart. Approximately 175 staples are required per 4' x 225' roll of material and 125 staples are required per 4' x 150' roll of material.
 - Erosion control material shall be placed loosely over ground surface. Do not stretch.
 - All terminal ends and transverse laps shall be stapled at approximately 12' intervals.

REFERENCE	STANDARD DWG. NO.
Project _____	IL-530
Designed _____	DATE 3-1-95
Checked _____	SECT 2 OF 2
Approved _____	



SOIL EROSION AND SEDIMENTATION CONTROL - NOTES

- GENERAL
 - THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE PROVISIONS OF THE ILLINOIS PROCEDURES AND STANDARDS FOR URBAN SOIL EROSION AND SEDIMENTATION CONTROL, AND IEPA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENTATION CONTROL.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.
 - SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE LAND IS OTHERWISE DISTURBED ON THE SITE.
 - SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEANUP FUEL OR CHEMICAL SPILLS AND LEAKS.
 - DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATION IS PROHIBITED.
 - SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
 - REPAIR ANY SILTATION OR EROSION DAMAGE TO ADJOINING SURFACES AND DRAINAGE WAYS RESULTING FROM LAND DEVELOPING OR DISTURBING ACTIVITIES.
- IMPLEMENTATION
 - GRAVELED ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WORTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES, IF NECESSARY, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY.
 - ANY PUBLIC AND/OR PRIVATE ROADS THAT ARE ADJACENT TO THE SITE AND USED FOR INGRESS AND EGRESS, SHALL BE MONITORED AND SWEEPED WHEN DIRTY AT THE DIRECTION OF THE VILLAGE OF LEMONT ENGINEER.
 - STAKED STRAW BALES SHALL BE INSTALLED AND MAINTAINED AROUND INTAKE STRUCTURES (I.E. INLETS, CATCH BASINS) AS SHOWN ON THE PLAN. THE CONTRACTOR, AT HIS OPTION, MAY USE SILT FENCES INSTEAD OF STRAW BALES.
 - IF A STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 10 DAYS, SEDIMENT AND EROSION CONTROL SHALL BE PROVIDED AROUND SUCH STOCKPILE. IF MORE THAN 2 MONTHS, THEN IT IS REQUIRED THAT THE STOCKPILE BE SEEDED SO AS TO MINIMIZE SOIL EROSION BY BOTH WIND AND WATER.
- INSPECTION AND MAINTENANCE
 - THE TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE AND WORK EFFECTIVELY UNTIL ALL THE PERMANENT EROSION CONTROL ITEMS ARE FULLY FUNCTIONAL.
 - THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES WEEKLY AND AFTER ANY STORM EVENT IN EXCESS OF 1/2". ANY DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY.
 - AT THE COMPLETION OF THE PROJECT, ALL STORM SEWER PIPES AND STRUCTURES SHALL BE CLEANED AND FREE OF DIRT AND DEBRIS. THE SEDIMENTATION SHALL BE REMOVED FROM THE STORM SEWER SYSTEM AND SHALL NOT BE WASHED OUT IN THE STORM SEWER SYSTEM.

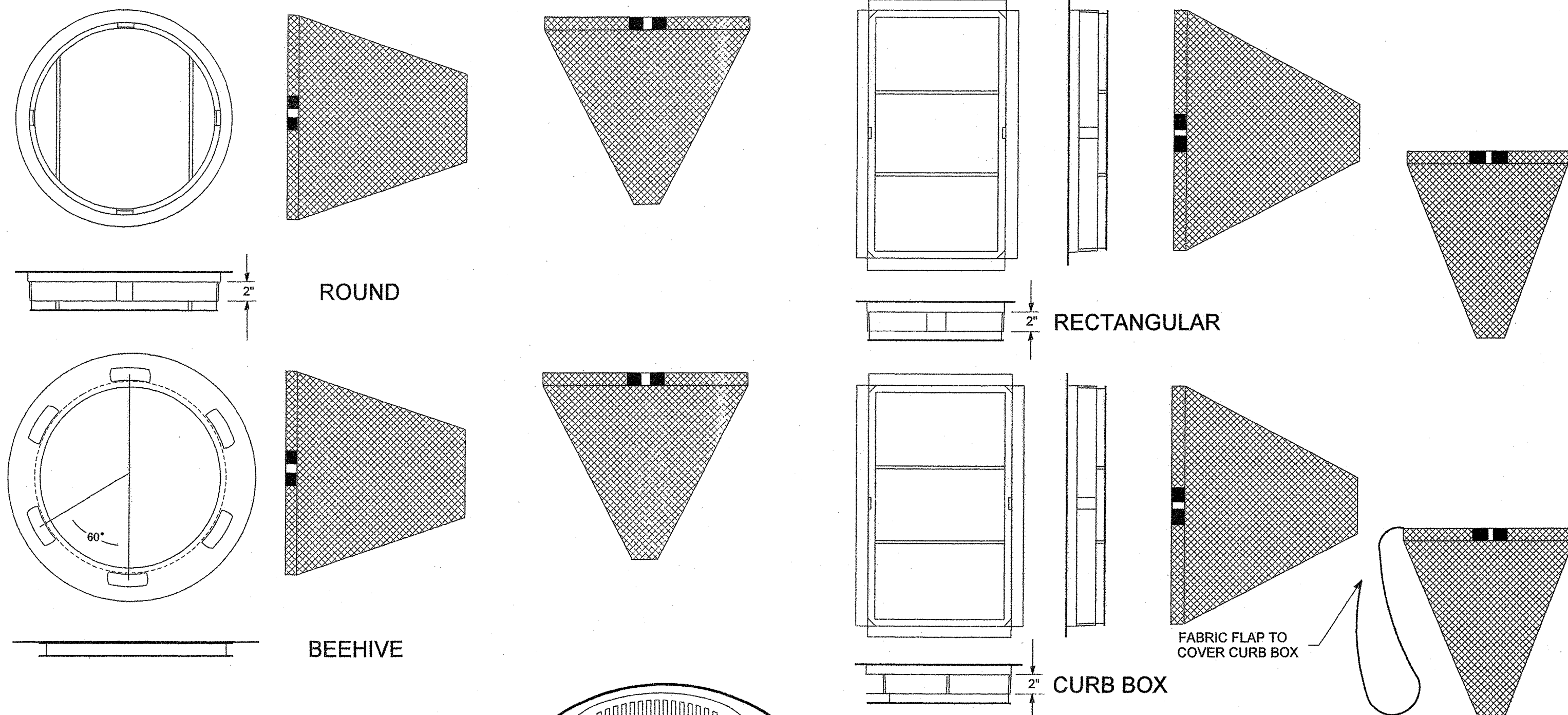
GENERAL NOTES

THE CONTRACTOR WILL IMPLEMENT ALL PROVISIONS OF THE SPECIFICATIONS TO ASSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY MANNER. SEDIMENTATION MUST NOT BE TRANSPORTED OFF THE CONSTRUCTION AREA. THE CONTRACTORS ATTENTION IS CALLED TO THE STANDARD SPECIFICATIONS FOR TEMPORARY EROSION CONTROL. PERMANENT DRAINAGE FEATURES SHALL BE CONSTRUCTED AS SOON AS POSSIBLE.

SOIL EROSION CONTROL NOTES

- THE CONTRACTOR SHALL BE REQUIRED TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES PRIOR TO EXISTING VEGETATION.
- THE CONSTRUCTION LIMITS SHALL BE STAKED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGED CONSTRUCTION LIMITS.
- ALL DRAINAGE STRUCTURES WITH OPEN GRATES IN THE PARKWAY SHALL HAVE INLET AND PIPE PROTECTION INSTALLED AROUND THE FRAME (REFERENCE STANDARD IL-563). INSTALLATIONS SHALL BE INSPECTED AFTER EVERY RUNOFF PRODUCING RAIN AND SEDIMENT SHALL BE REMOVED ONCE IT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE BARRIER (ILLINOIS URBAN MANUAL STANDARD 563).
- ALL SALT TOLERANT SOD SHALL BE INSTALLED AS DIRECTED BY ENGINEER. SOD SHALL BE WATERED EVERY WEEK TO TWO WEEKS AND FERTILIZER APPLIED AS DIRECTED BY THE ENGINEER (ILLINOIS URBAN MANUAL STANDARD 925).
- SEEDING SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER. SEEDING SHALL BE CLASS 4A, A PERENNIAL RYEGRASS, AND PERFORMED BETWEEN APRIL 1 AND JUNE 1, IF PERFORMED IN THE SPRING, OR AUGUST 1 AND SEPTEMBER 1, IF PERFORMED IN THE FALL. SEEDING SHALL BE PERFORMED AT A RATE OF 44 LBS/ACRE (ILLINOIS URBAN MANUAL STANDARD 880).

THE SOIL AND WATER CONSERVATION DISTRICT IS RESPONSIBLE FOR CONDUCTING SITE VISITS AND VERIFYING THAT THE PRACTICES ARE WORKING PROPERLY AND DETERMINE IF ADDITIONAL PRACTICES ARE NEEDED FOR BETTER SOIL EROSION AND SEDIMENT CONTROL. IF ADDITIONAL PRACTICES ARE DEEMED NECESSARY BY THE SWCD, THE CONTRACTOR WILL IMPLEMENT THE PRACTICES OF THE ILLINOIS URBAN MANUAL IN A TIMELY MANNER.



INLET AND PIPE PROTECTION

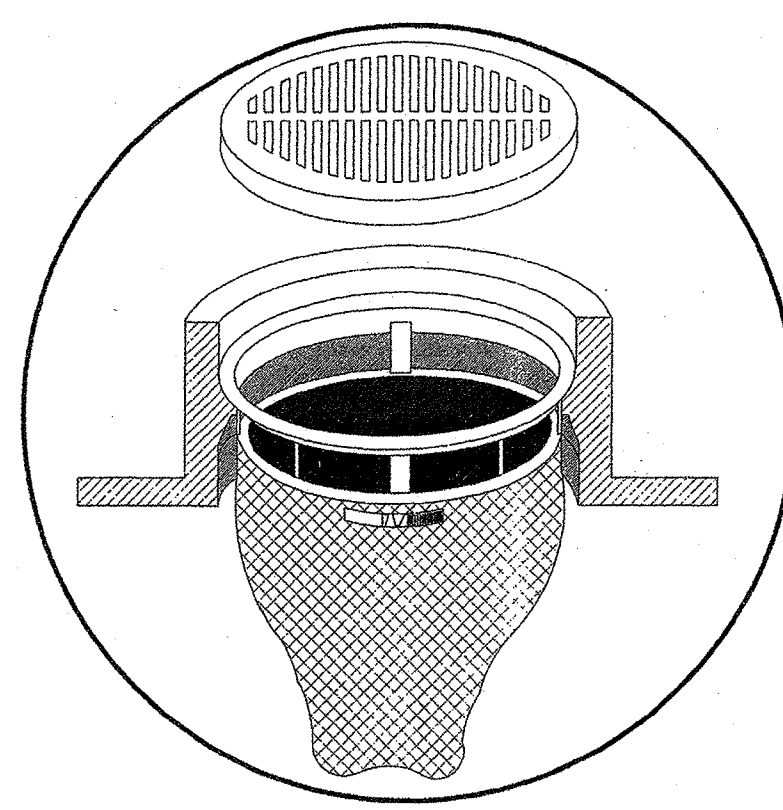
DESCRIPTION: This work shall consist of furnishing, installation, and removal of a drainage structure inlet filter assembly, consisting of a frame and filter bag, to collect sediment in surface storm water runoff at locations shown on the plans or as directed by the Engineer.

The Contractor shall inspect the worksite and review the plans to determine the number and dimensions of the various types of drainage structure frames (circular and rectangular) into which the inlet filters will be installed prior to ordering materials.

The drainage structure inlet filter assembly shall be installed under the grate on the lip of the drainage structure frame with the fabric bag hanging down into the drainage structure.

The drainage structure inlet filter assembly shall remain in place until final removal of the assembly is directed by the Engineer. The drainage structure inlet filter assembly shall remain the property of the Contractor.

Final removal of the assembly shall include the disposal of debris or silt that has accumulated in the filter bag at the time of final removal. Periodic cleaning of the filter is paid for separately.



DRAINAGE STRUCTURE INLET FILTER
INLET AND PIPE PROTECTION

The drainage structure inlet filter assembly shall consist of a steel frame with a replaceable geotextile fabric bag attached with a steel band with locking cap that is suspended from the frame. A clean used bag and used steel frame in good condition, meeting the approval of the Engineer, may be substituted for new materials.

The drainage structure inlet filter assembly frame shall be rigid steel meeting the requirements of ASTM-A36. The frame shall include an overflow feature that is welded to the frame. The overflow feature shall be designed to allow full flow of water into the structure if the filter bag is filled with sediment. The dimensions of the assembly frame shall allow the drainage structure grate to fit into the inlet filter assembly frame opening. The assembly frame shall rest on the inside lip of the drainage structure frame for the full variety of existing and proposed drainage structure frames that are present on this contract.

The drainage structure inlet filter assembly bag shall be constructed of polypropylene geotextile fabric with a minimum weight of 4 ounces per square yard, minimum flow rate of 145 gallons per minute per square foot, and designed for minimum silt and debris capacity of 2 cubic feet. The filter bag shall be reinforced with an outer layer of polyester mesh fabric with a minimum weight of 4 ounces per square yard. The filter bag shall be suspended from the steel frame with a stainless steel band and locking cap. The inlet filter assembly frame shall not cause the drainage structure grate to extend higher than 1/8-inch above the drainage structure frame.

BASIS OF PAYMENT: The work will be paid for at the contract unit price per EACH for INLET AND PIPE PROTECTION, which price shall include all cost of labor, materials, equipment, and incidental items necessary to perform the work.

STANDARD A-39	
SHEET 4 OF 4 SHEETS	
COUNTY OF COOK	
DEPARTMENT OF HIGHWAYS	
TEMPORARY EROSION CONTROL	
COMPUTED - MAL	APPROVED - 20 05
DRAWN - MAL	
CHECKED - SDR	

FILE NAME	CITY OF COUNTRYSIDE
PROJECT	FAU 2704 (BRAINARD AVENUE)
PROJECT	FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET)
PROJECT	#13250 SHARED-USE PATHWAY

DESIGNED	THK	REVISED	11-26-18 IDOT REVIEW
DRAWN	JFP	REVISED	12-03-18 COOK COUNTY
CHECKED	JEF	REVISED	12-10-18 COOK COUNTY
DATE	10/18	REVISED	12-17-18 IDOT REVIEW

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL EROSION AND SEDIMENTATION CONTROL PLAN

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2704	14-00041-00-BT	COOK	47 23
CONTRACT NO. 61F60				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887-8640
F: (630) 887-0132
Illinois Professional Design Firm No. 184-000928

STATION	NUMERICAL STATION	SECTION CUTS	SECTION FILLS	AVERAGE END AREA CUT	AVERAGE END AREA FILL	DISTANCE	CUT IN CUBIC FEET	FILL IN CUBIC FEET
1+10	110	7.87	0.07					
1+50	150	12.34	0.00	10.11	0.04	40	404.28	1.43
2+00	200	11.65	0.27	12.00	0.14	50	599.92	6.81
2+50	250	23.82	0.00	17.74	0.14	50	886.84	6.91
3+00	300	11.34	1.82	17.58	0.91	50	879.05	45.55
3+50	350	10.57	1.86	10.96	1.84	50	547.88	91.96
4+00	400	13.84	3.11	12.21	2.49	50	610.31	124.35
4+38	438	16.74	0.00	15.29	1.56	38	580.97	59.15
4+65	465	15.78	0.00					
5+00	500	15.44	0.00	15.61	0.00	35	546.34	0.00
5+20	520	15.37	0.00	15.40	0.00	20	308.07	0.00
5+44	544	15.89	0.00					
6+00	600	13.09	0.20	14.49	0.10	56	811.44	5.63
6+50	650	18.86	0.00	15.97	0.10	50	798.69	5.03
6+96	696	14.42	0.00	16.64	0.00	46	765.44	0.00
7+33	733	13.24	0.00					
7+49	749	13.36	0.00	13.30	0.00	16	212.81	0.00
7+60	760	10.57	0.00					
8+00	800	26.00	0.00	18.28	0.00	40	731.35	0.00
8+50	850	19.87	0.00	22.94	0.00	50	1146.77	0.00
9+00	900	28.48	0.00	24.17	0.00	50	1208.66	0.00
9+48	948	22.39	0.00	25.43	0.00	48	1220.79	0.00
9+96	996	15.26	0.00					
10+22	1022	15.77	0.00	15.51	0.00	26	403.39	0.00
10+38	1038	13.62	0.00					
10+50	1050	18.55	0.00	16.08	0.00	12	192.97	0.00
11+00	1100	24.06	0.00	21.30	0.00	50	1065.16	0.00
11+50	1150	31.87	0.00	27.97	0.00	50	1398.29	0.00
12+00	1200	35.01	0.00	33.44	0.00	50	1672.05	0.00
12+50	1250	33.26	0.00	34.13	0.00	50	1706.72	0.00
13+00	1300	28.80	0.00	31.03	0.00	50	1551.42	0.00
13+55	1355	11.24	0.08	20.02	0.04	55	1101.14	2.25
14+13	1413	14.00	0.04					
14+50	1450	22.07	0.00	18.04	0.02	37	667.39	0.70
15+00	1500	14.83	1.32	18.45	0.66	50	922.55	33.00
15+43	1543	13.29	0.00	14.06	0.66	43	604.60	28.38
15+55	1555	15.12	0.00					
16+00	1600	1.70	18.26	8.41	9.13	45	378.57	410.78
16+29	1629	11.50	0.00	6.60	9.13	29	191.44	264.73
16+40	1640	10.62	0.00					
16+50	1650	1.91	21.80	6.27	10.90	10	62.65	108.99
17+00	1700	2.90	16.66	2.40	19.23	50	120.25	961.56
17+31	1731	10.56	4.28	6.73	10.47	31	208.68	324.58
17+58	1758	10.03	1.21	10.29	2.74	27	277.96	74.01
17+68	1768	12.35	0.43					
18+00	1800	2.71	5.37	7.53	2.90	32	240.97	92.79
18+22	1822	2.70	1.18	2.71	3.28	22	59.56	72.08

THIS CALCULATION PROVIDES THE EXCAVATION VOLUMES FOR THE PROPOSED PATHWAY. ADDED TO THIS CALCULATION IS THE CONCRETE SIDEWALK LANDINGS AT EACH ROADWAY INTERSECTION. THE DIMENSION OF EACH IS 8 FOOT BY 10 FOOT AND WILL BE EXCAVATED 11" DEEP. TOTAL CUBIC YARDS EXCAVATED FOR CONCRETE SIDEWALK LANDINGS IS 60 CY.

CUT		FILL	
TOTAL IN CUBIC FEET	70,340.53	TOTAL IN CUBIC FEET	8,156.08
TOTAL IN CUBIC YARDS	2,605.20	TOTAL IN CUBIC YARDS	302.08

	NOVOTNY ENGINEERING	545 Plainfield Road, Suite A Willowbrook, IL 60527 T: (630) 887-8640 F: (630) 887-0132		
	Illinois Professional Design Firm No. 184-000928			
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	24
CONTRACT NO. 61F60				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

FILE NAME CITY OF COUNTRYSIDE
FAU 2704 (BRAINARD AVENUE)
FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET)
#13250 SHARED-USE PATHWAY

USER NAME =
DESIGNED -- THK
DRAWN -- JFP
CHECKED -- JEF
DATE -- 10/18

REVISD -- 11-26-18 IDOT REVIEW
REVISD -- 12-03-18 COOK COUNTY
REVISD -- 12-10-18 COOK COUNTY
REVISD -- 12-17-18 IDOT REVIEW

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EARTHWORK TABLE
SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

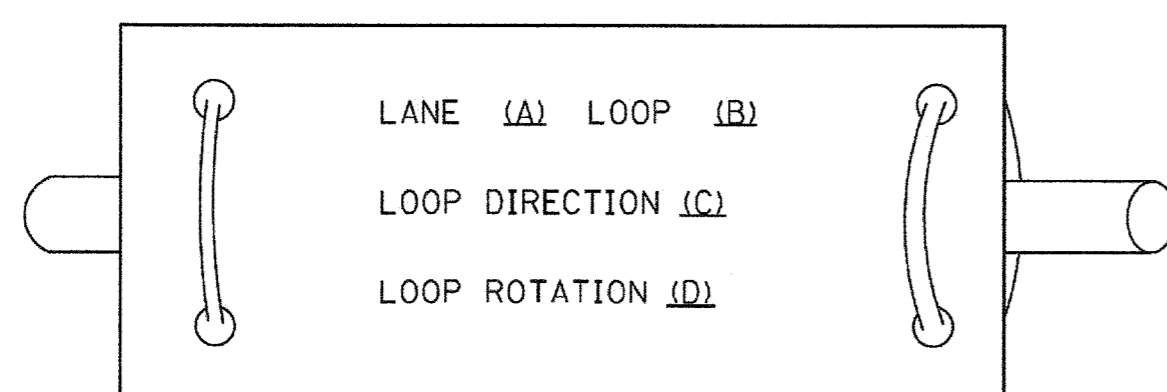
ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE			SIGNAL HEAD		
COMMUNICATION CABINET			HANDHOLE -ROUND			-(P) PROGRAMMABLE SIGNAL HEAD		
MASTER CONTROLLER			HEAVY DUTY HANDHOLE -SQUARE					
MASTER MASTER CONTROLLER			HEAVY DUTY HANDHOLE -ROUND					
UNINTERRUPTABLE POWER SUPPLY			DOUBLE HANDHOLE			SIGNAL HEAD WITH BACKPLATE		
SERVICE INSTALLATION -(P) POLE MOUNTED			JUNCTION BOX			-(P) PROGRAMMABLE SIGNAL HEAD		
SERVICE INSTALLATION -(G) GROUND MOUNTED			RAILROAD CANTILEVER MAST ARM			-(RB) RETROREFLECTIVE BACKPLATE		
SERVICE INSTALLATION -(GM) GROUND MOUNTED METERED			RAILROAD FLASHING SIGNAL					
TELEPHONE CONNECTION			RAILROAD CROSSING GATE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CROSSBUCK			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
ALUMINUM MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
WOOD POLE			SYSTEM ITEM	S	SP	ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
GUY WIRE			INTERSECTION ITEM	I	IP	COAXIAL CABLE		
SIGNAL HEAD			REMOVE ITEM		R	VENDOR CABLE		
SIGNAL HEAD WITH BACKPLATE			RELOCATE ITEM		RL	COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL HEAD OPTICALLY PROGRAMMED			ABANDON ITEM		A	FIBER OPTIC CABLE -NO. 62.5/125, MM12F		
FLASHER INSTALLATION -(FS) SOLAR POWERED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF	-NO. 62.5/125, MM12F SM12F		
			MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF	-NO. 62.5/125, MM12F SM24F		
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF			
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I			GROUND ROD -(C) CONTROLLER		
RADAR DETECTION SENSOR			PERFORMED DETECTOR LOOP			-(M) MAST ARM		
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR			-(P) POST		
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR			-(S) SERVICE		
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

FILE NAME = ts05.dgn	USER NAME = 1a3sa	DESIGNED - IP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS	F.A.U. RTE. 2704	SECTION 14-00041-00-BT	COUNTY COOK	TOTAL SHEETS 47	SHEET NO. 25
Default	PLOT SCALE = 50,0000 / 1in	DRAWN - IP	REVISOR -	SCALE: NONE SHEET 1 OF 7 SHEETS STA. TO STA.		TS-05		CONTRACT NO. 61F60		
	PLOT DATE = 9/29/2016	CHECKED - LP	REVISOR -	ILLINOIS FED. AID PROJECT						
		DATE - 9/29/2016	REVISOR -							

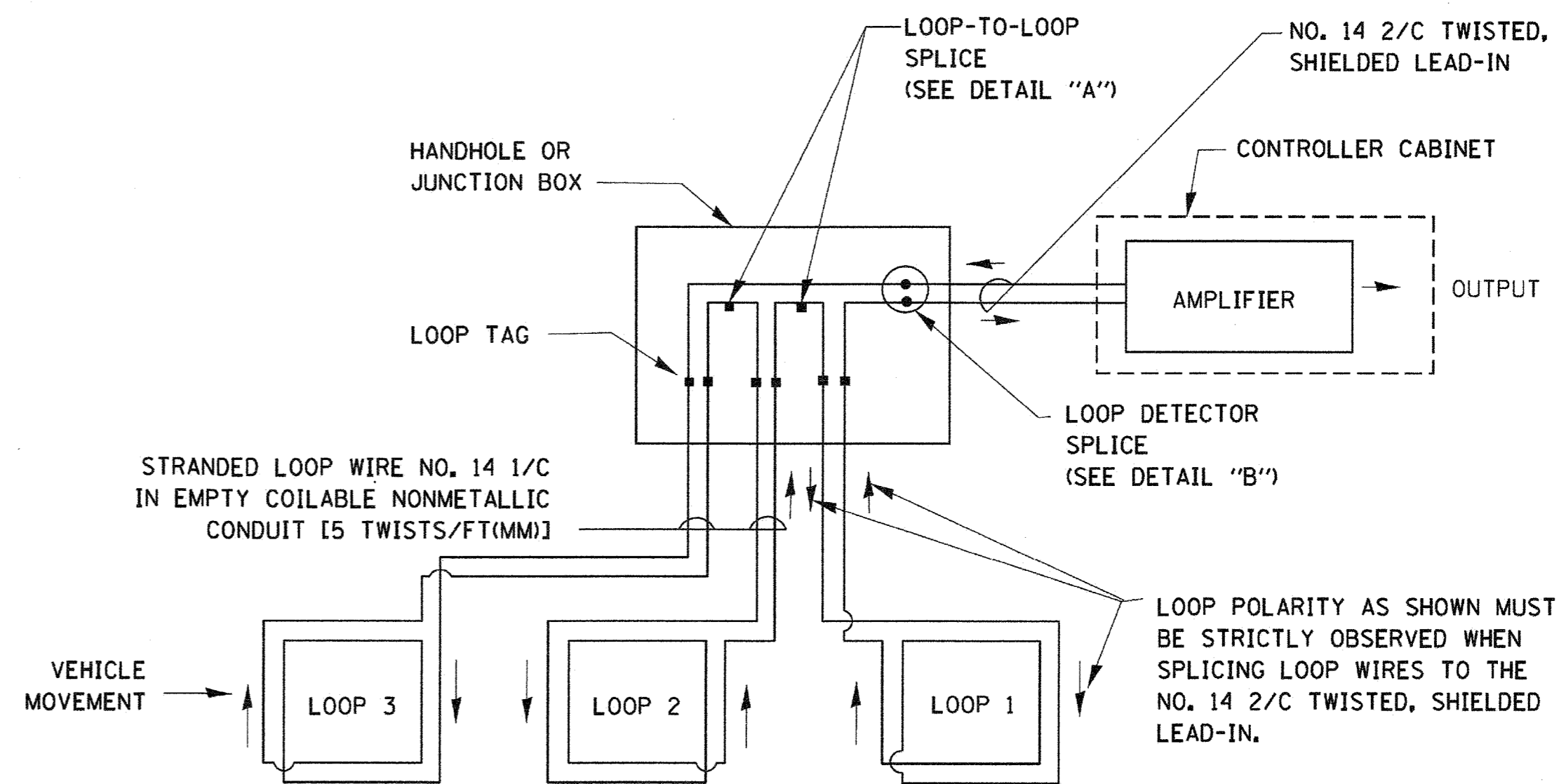
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

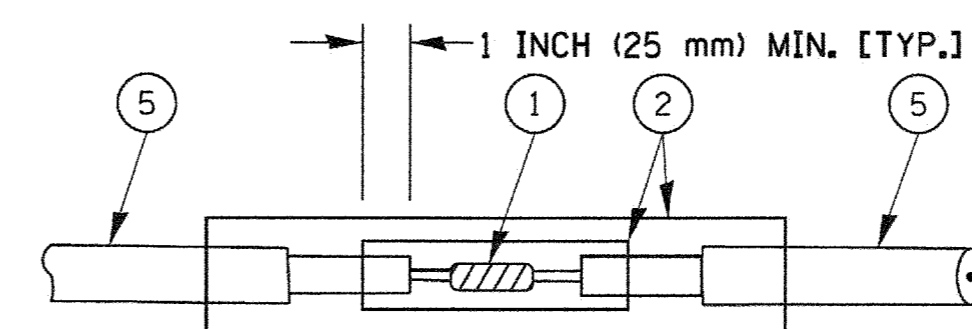


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

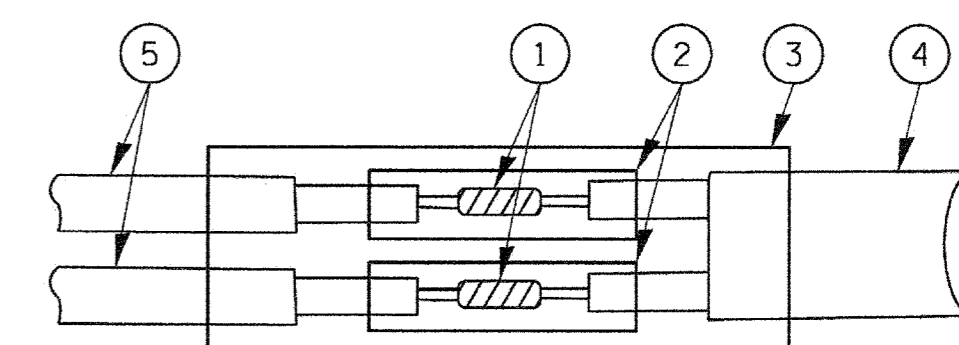


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm), IF IN CONCRETE. THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

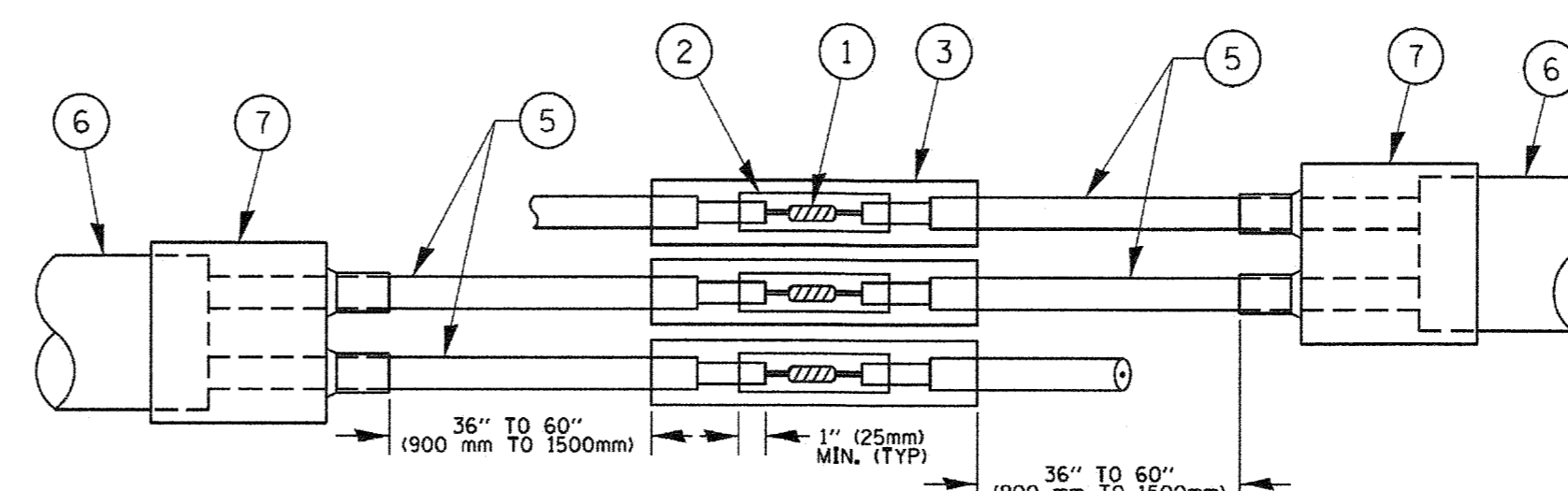


DETAIL "A"
LOOP-TO-LOOP SPLICE

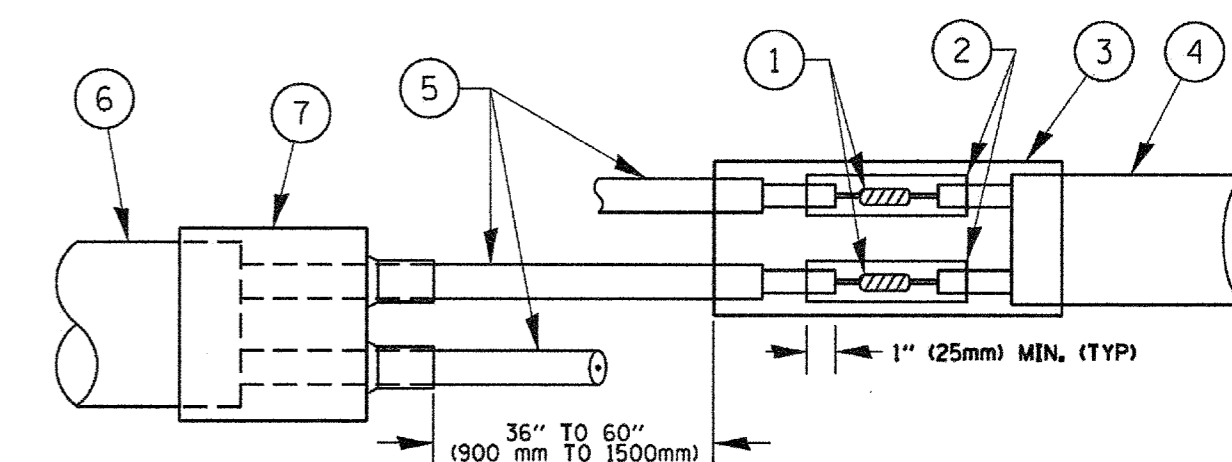


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PRE-FORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- 6 PRE-FORMED LOOP
- 7 XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ct\pwwork\pwwork\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
PLOT SCALE = 50,0000 ' / in.		CHECKED - DAD	REVISED -
PLOT DATE = 1/13/2014		DATE - 10-28-09	REVISED -

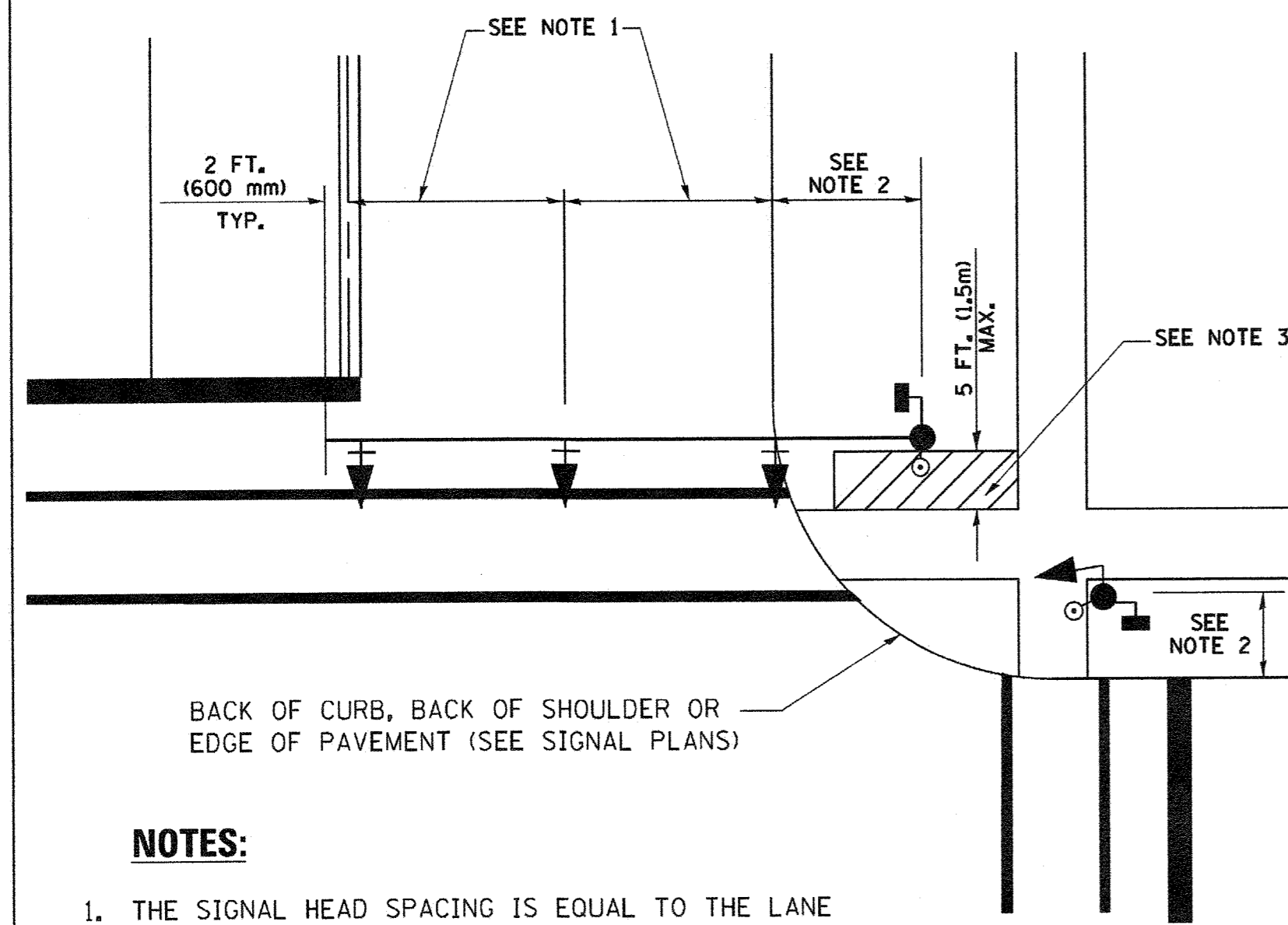
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 2 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	26
TS-05		CONTRACT NO. 61F60		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**

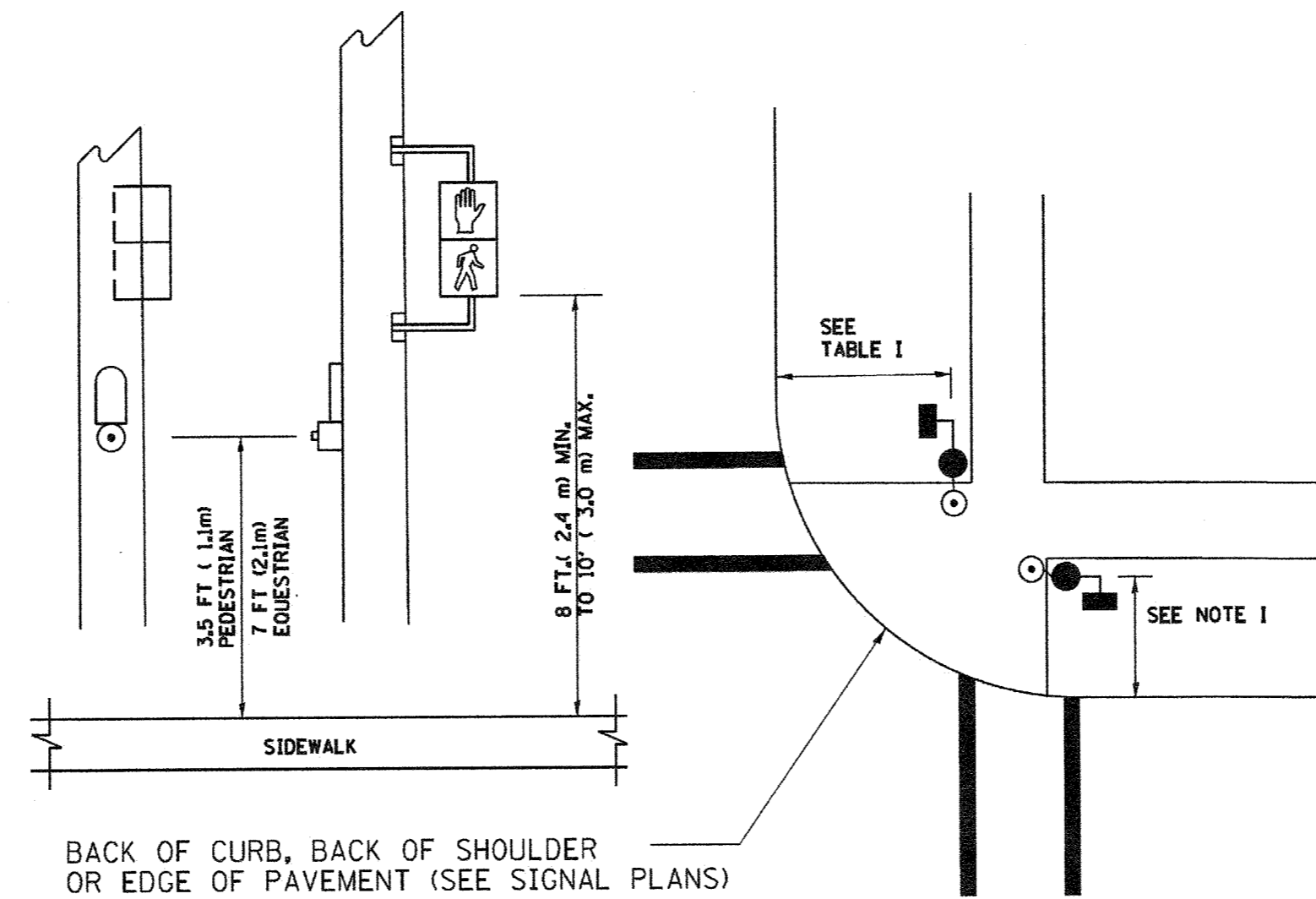


BACK OF CURB, BACK OF SHOULDER OR
EDGE OF PAVEMENT (SEE SIGNAL PLANS)

NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**

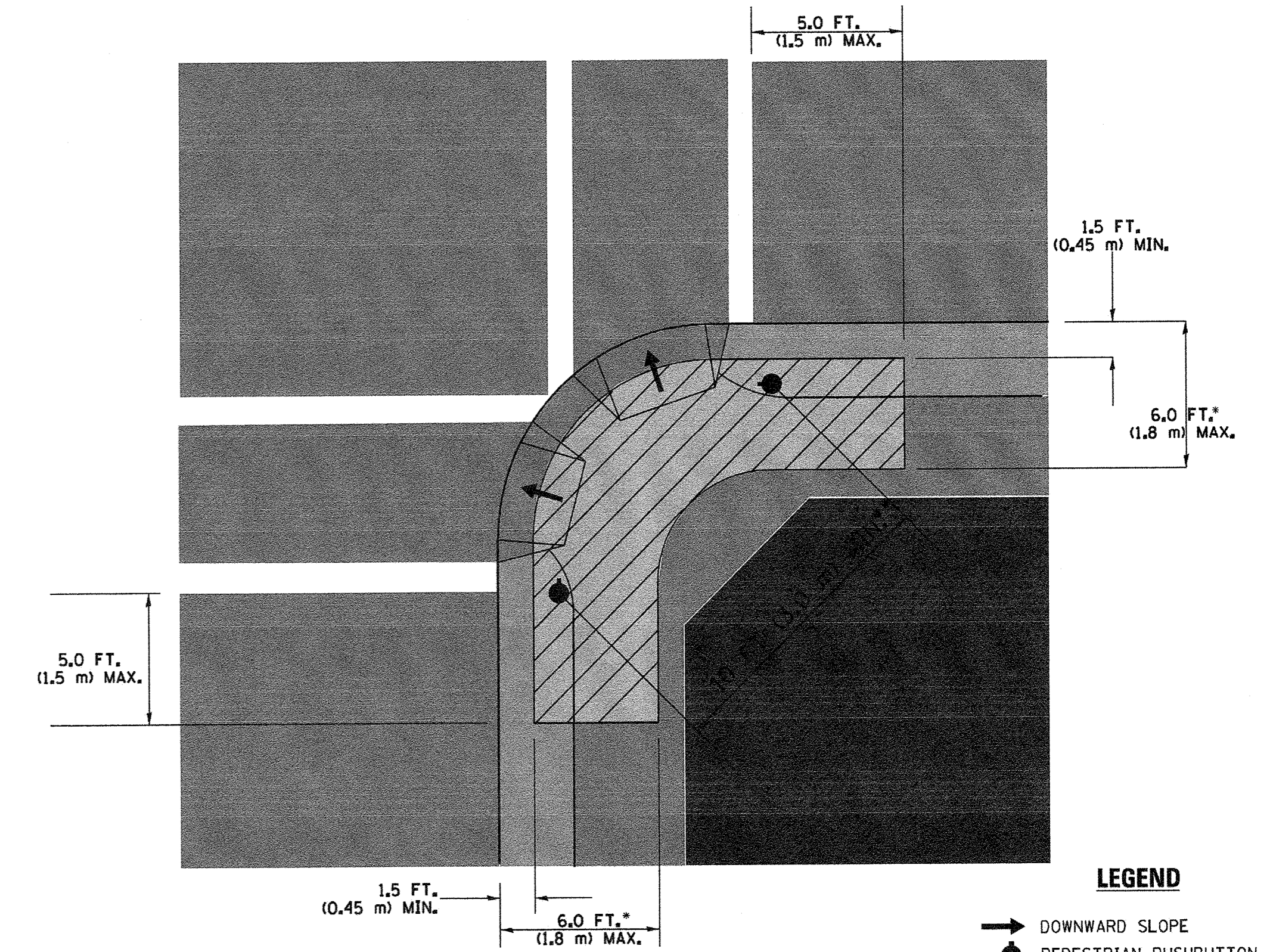


BACK OF CURB, BACK OF SHOULDER
OR EDGE OF PAVEMENT (SEE SIGNAL PLANS)

NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- ▨ RECOMMENDED PUSHBUTTON LOCATIONS

- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

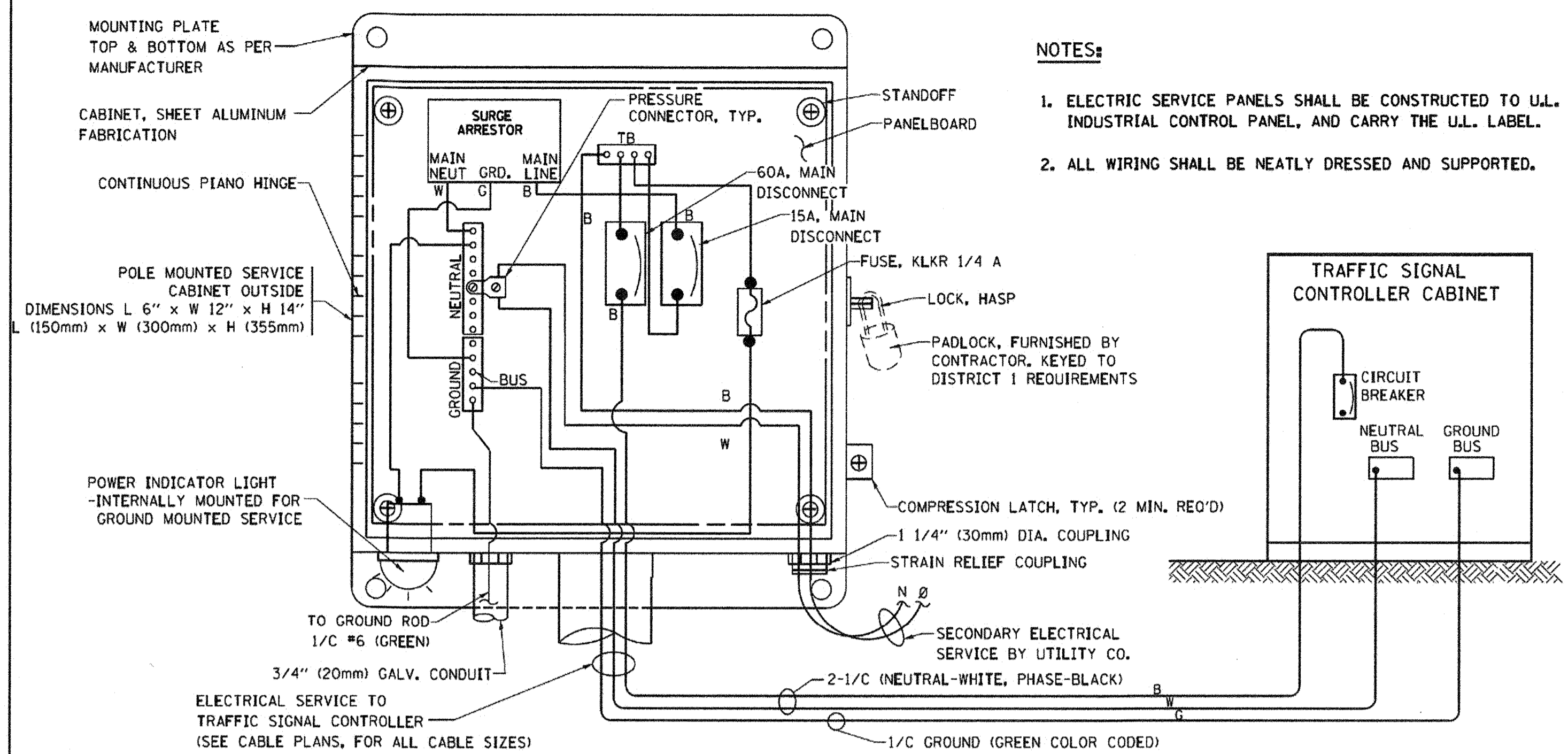
FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
ci:\pw\work\pwwork\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

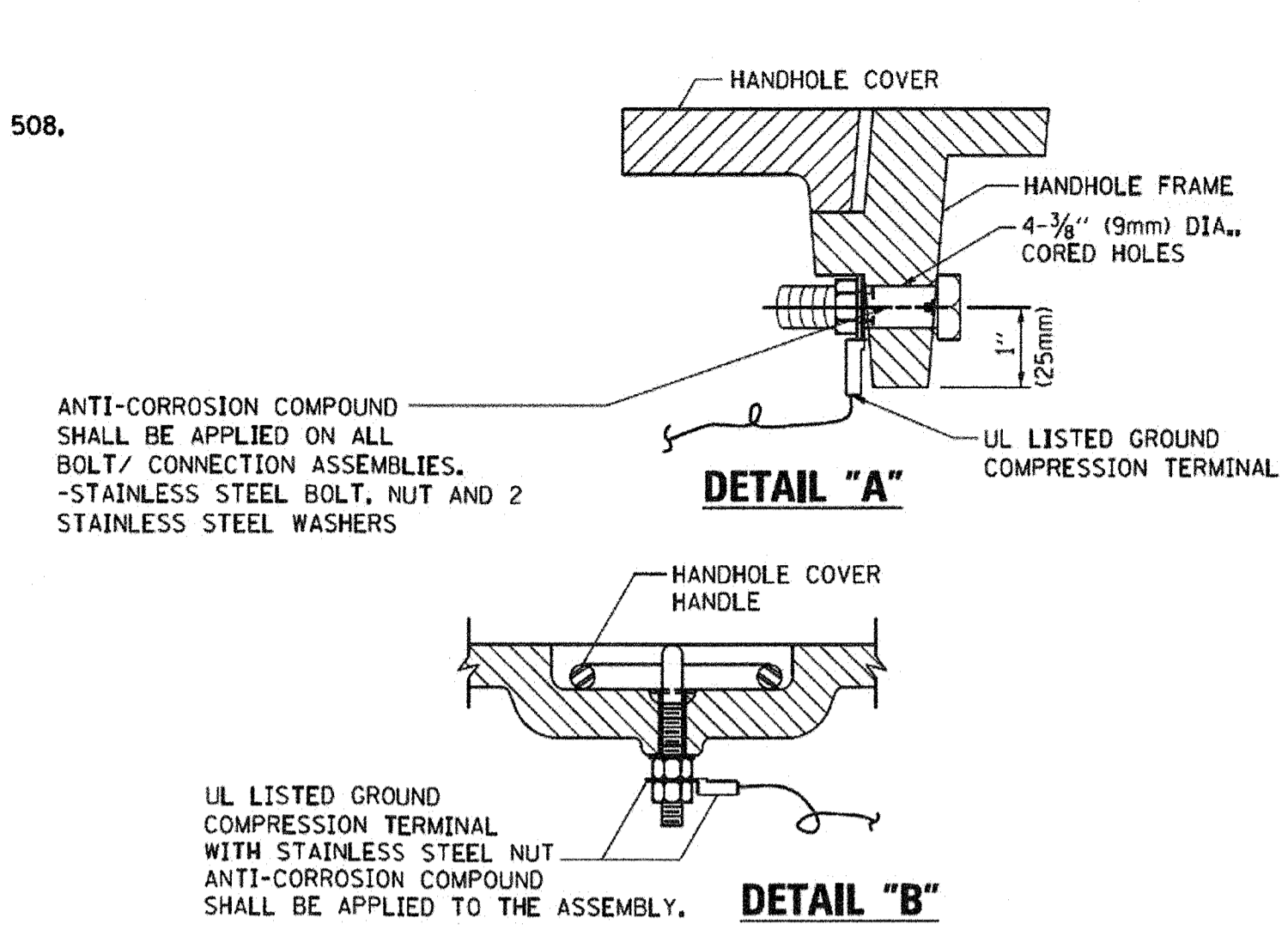
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 3 OF 7 SHEETS STA. TO STA.

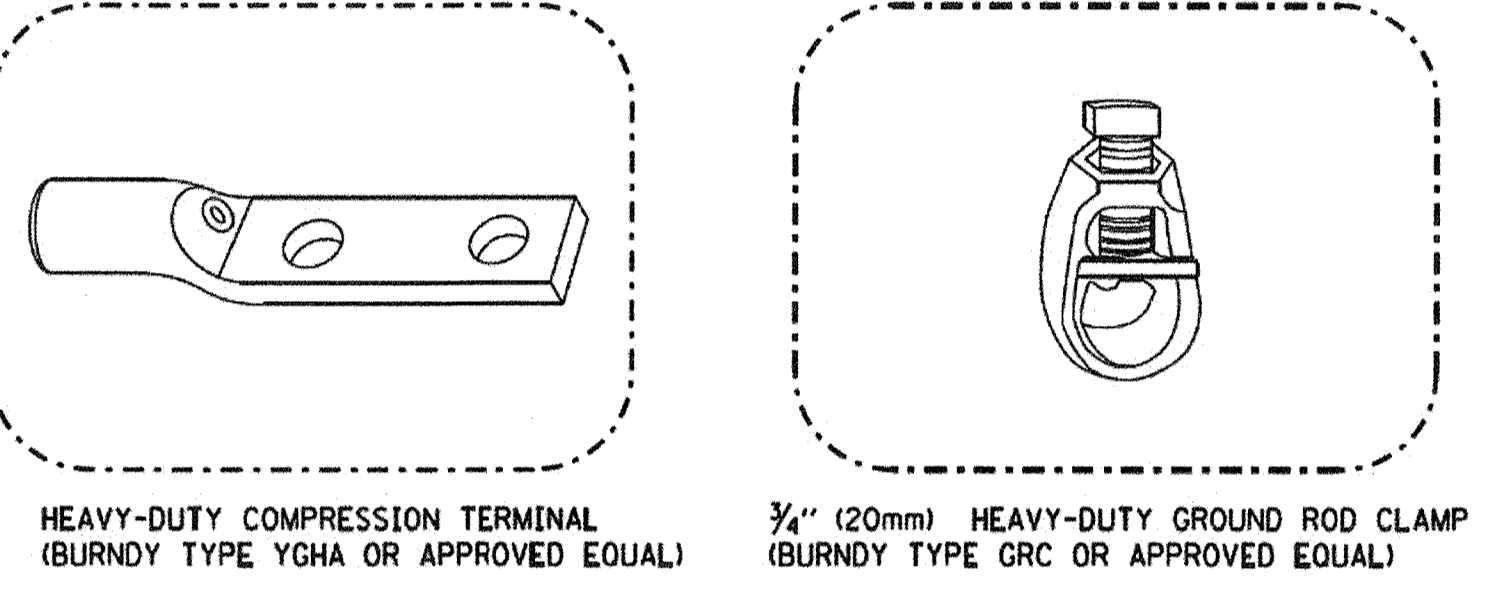
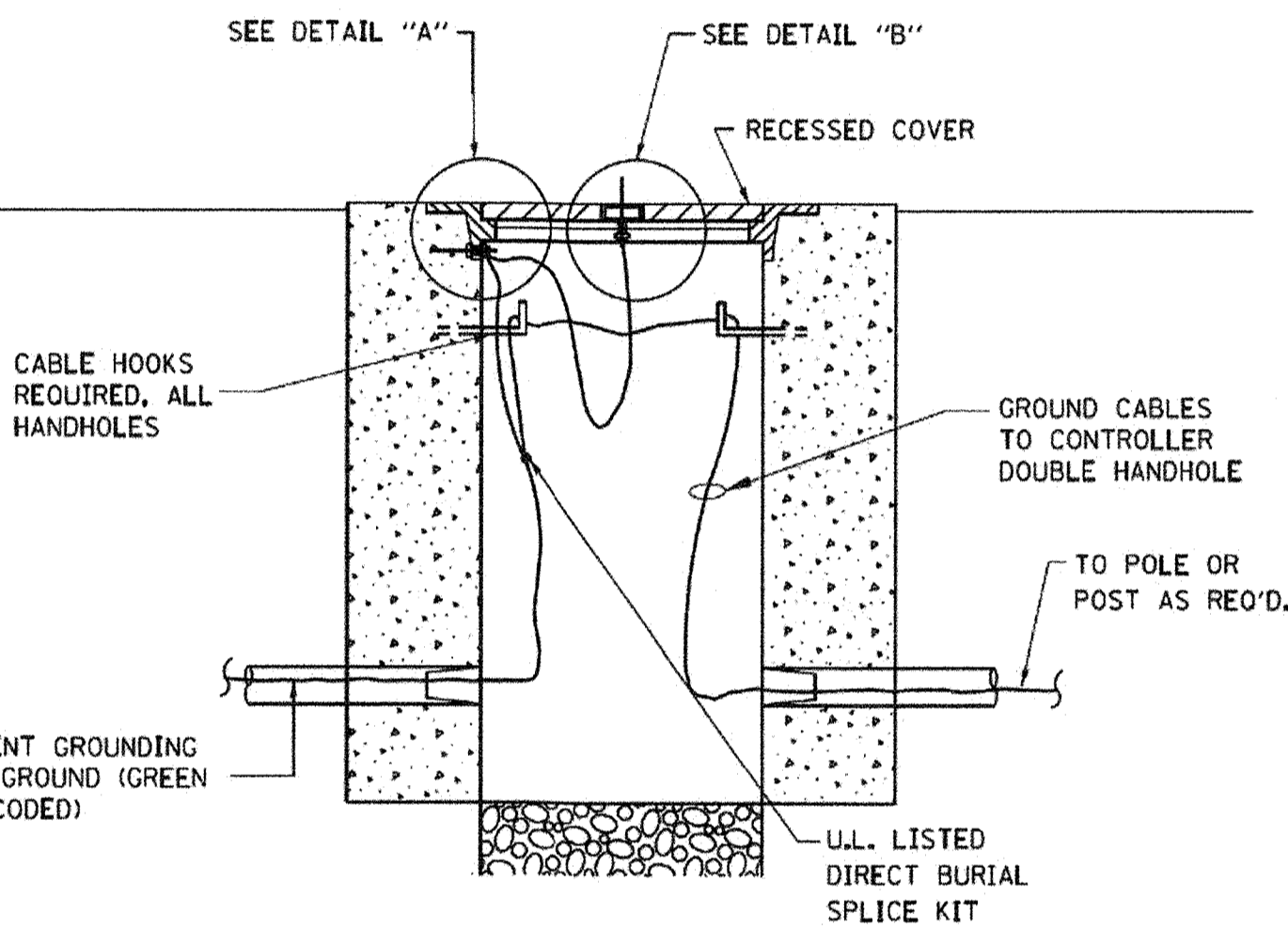
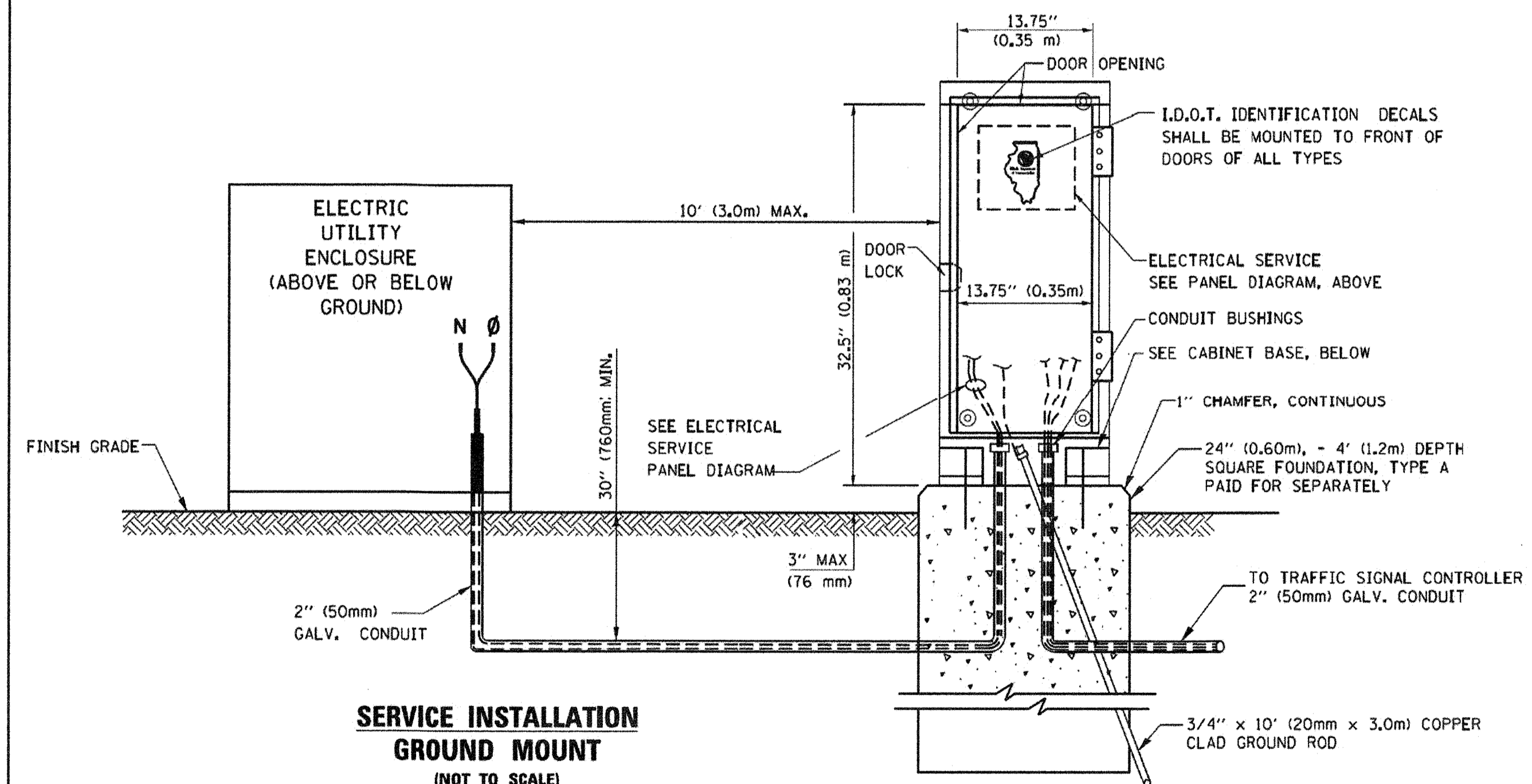
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	27
TS-05			CONTRACT NO. 61F60	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)



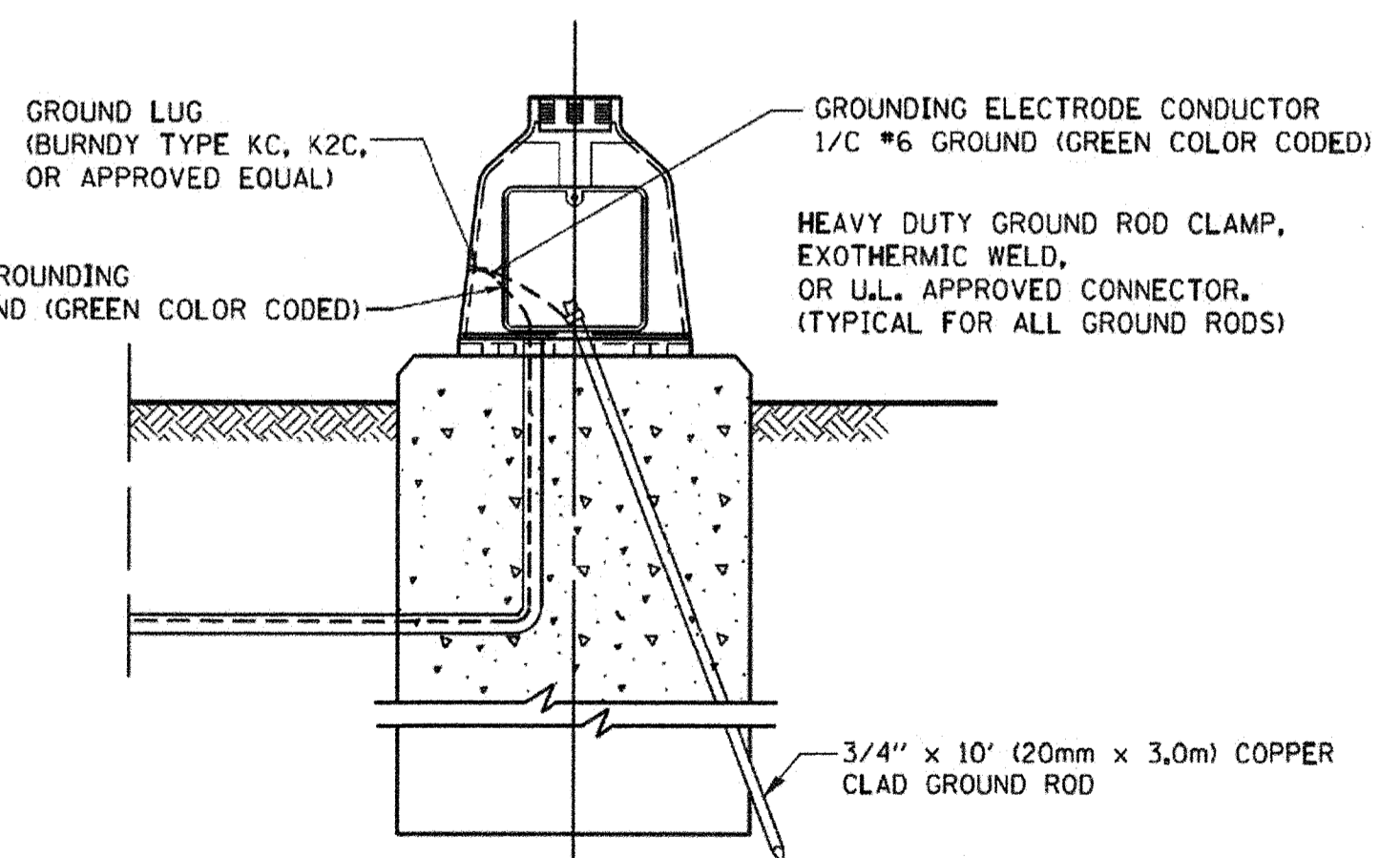
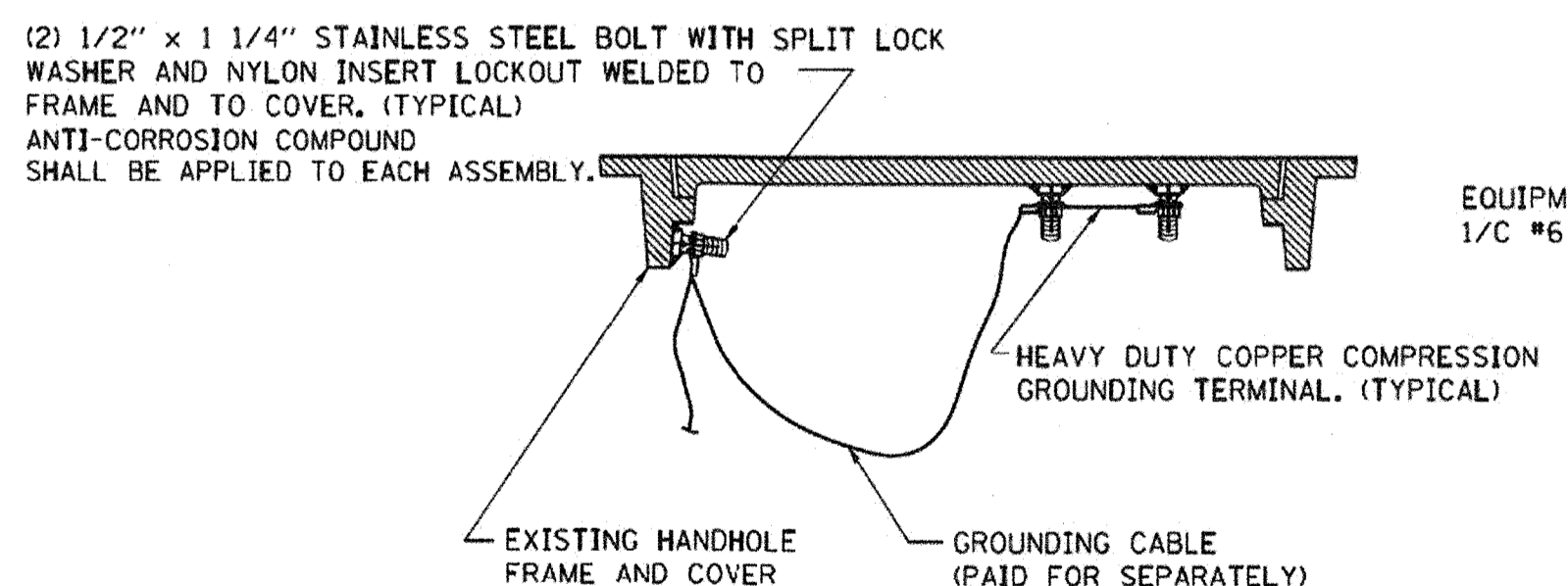
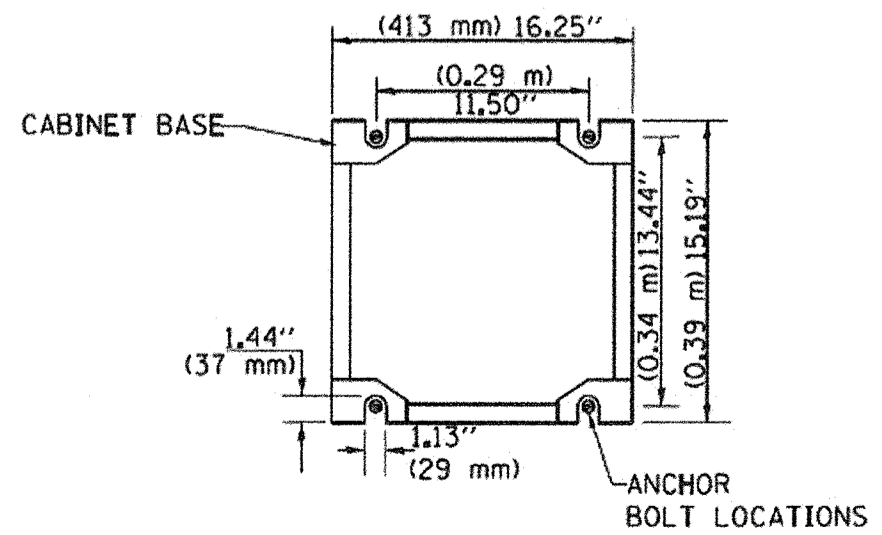
- NOTES:**
- GROUNDING SYSTEM**
1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
 2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
 3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
 4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.

SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

CABINET - BASE BOLT PATTERN (NOT TO SCALE)



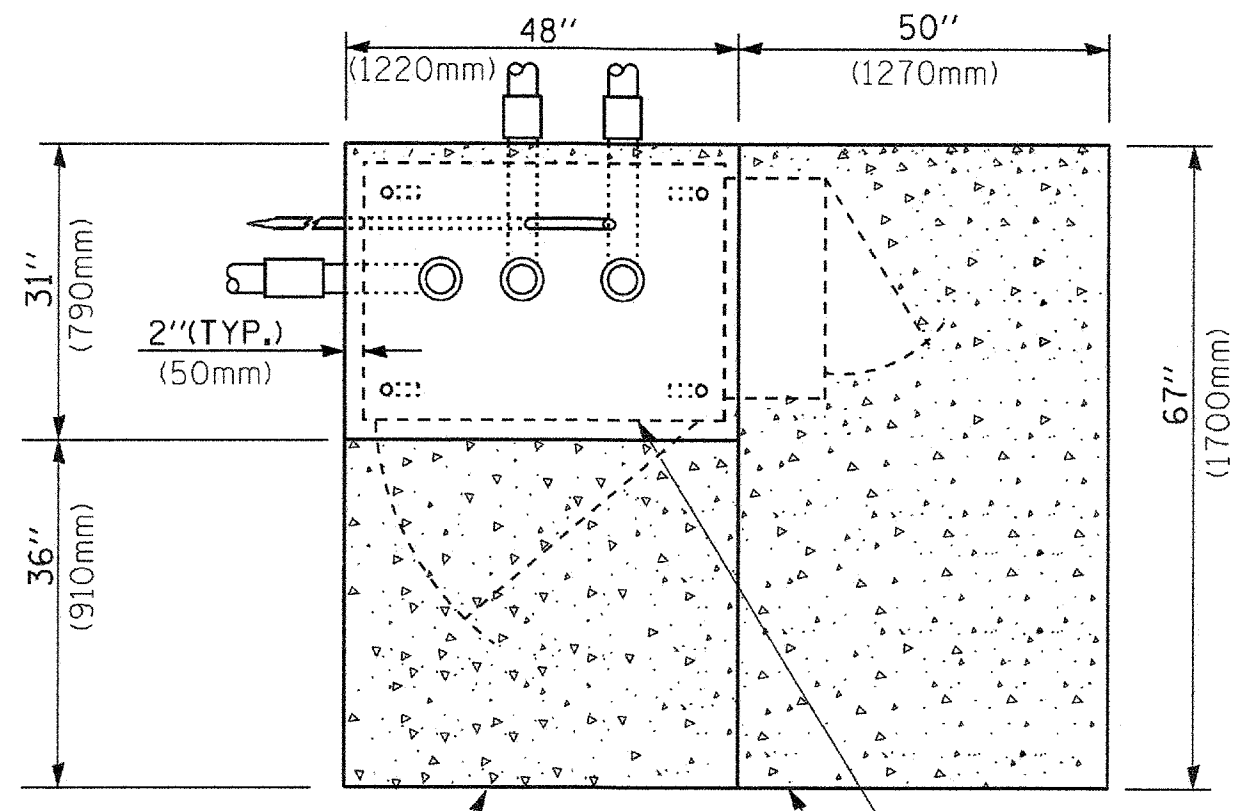
FILE NAME =	USER NAME = footemj	DESIGNED - DAD	REVISED - DAG 1-1-14
cl:\pwork\psidot\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

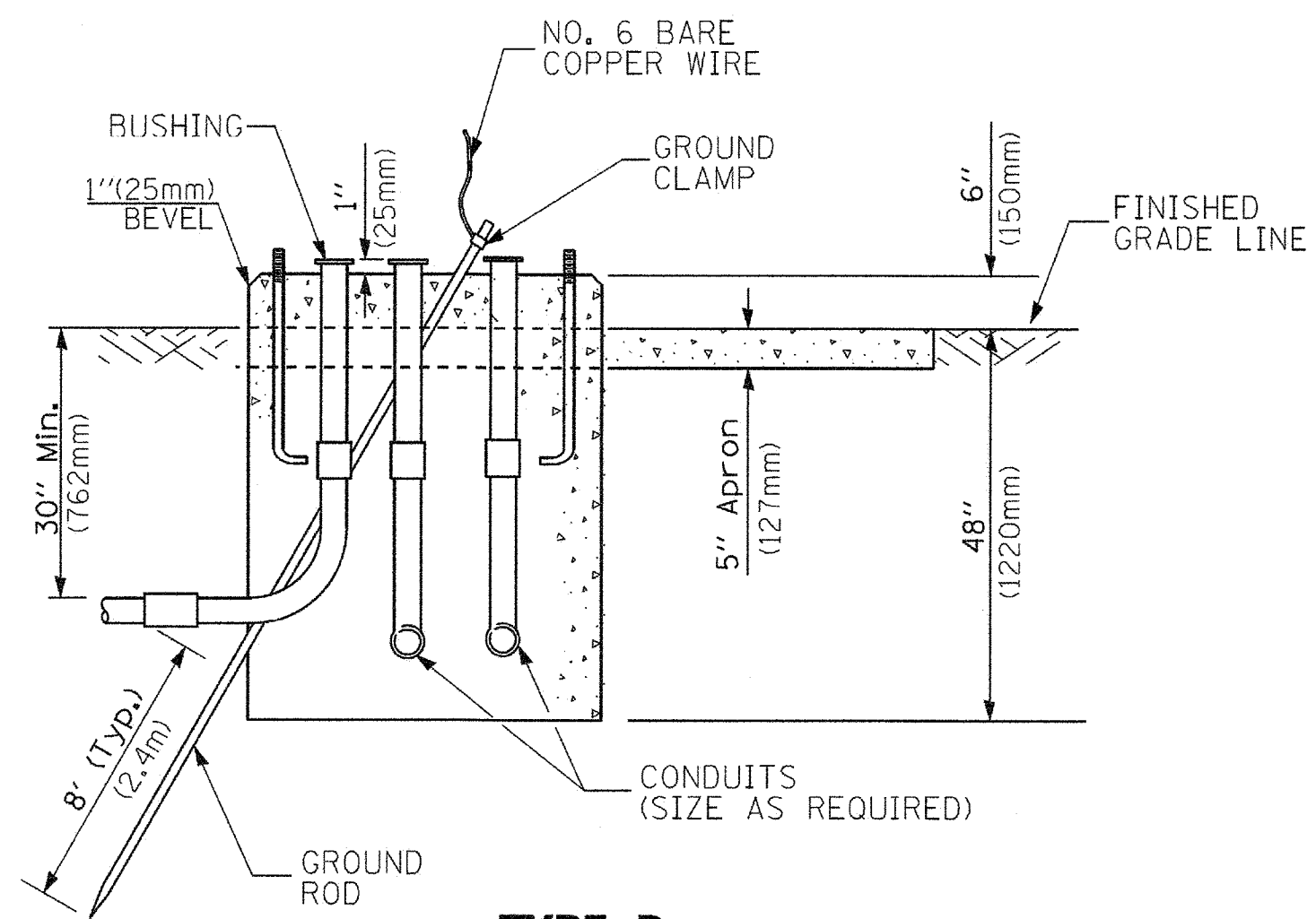
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET NO. 4 OF 7 SHEETS STA. TO STA.

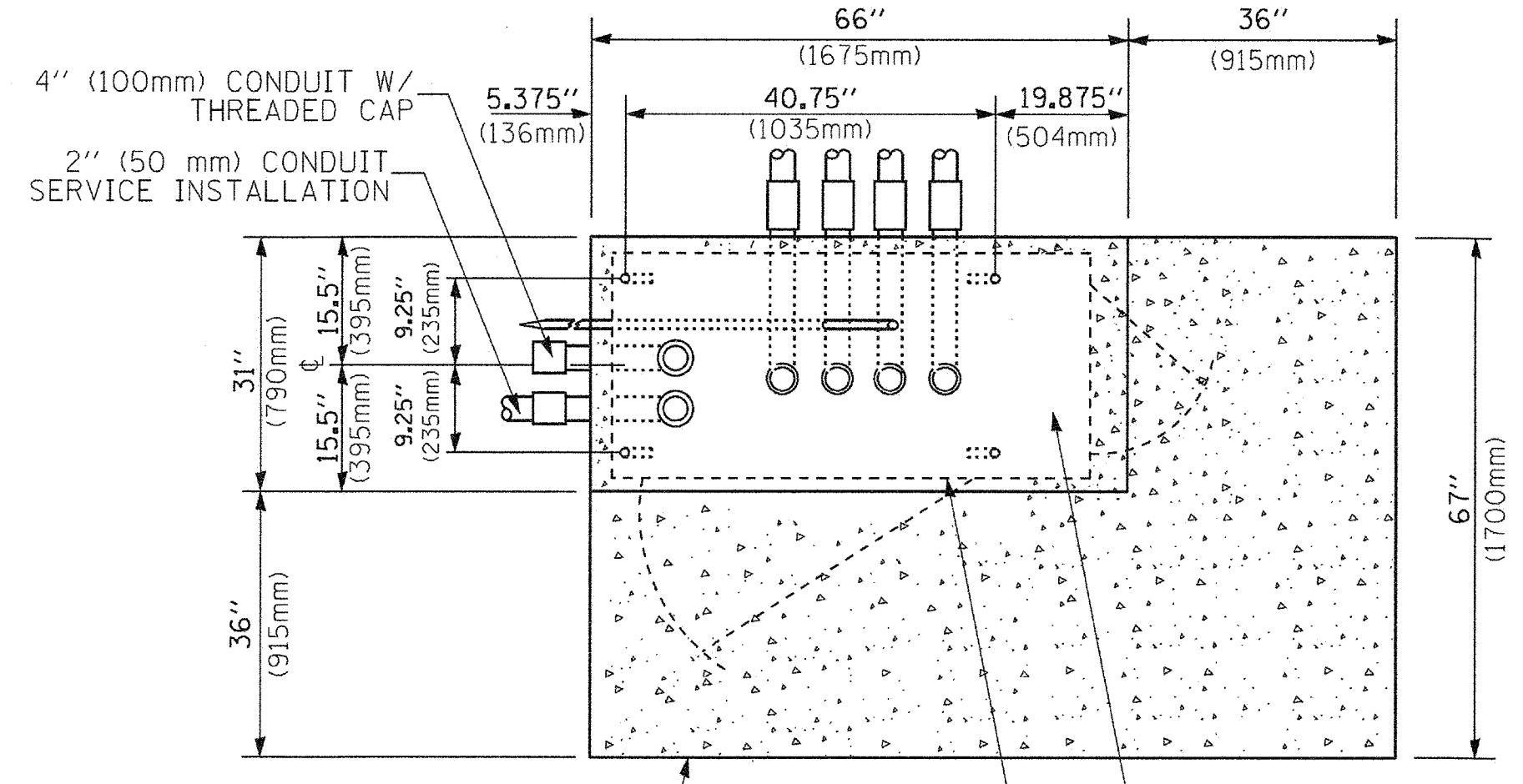
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	28
TS-05		CONTRACT NO. 61F60		
ILLINOIS FED. AID PROJECT				



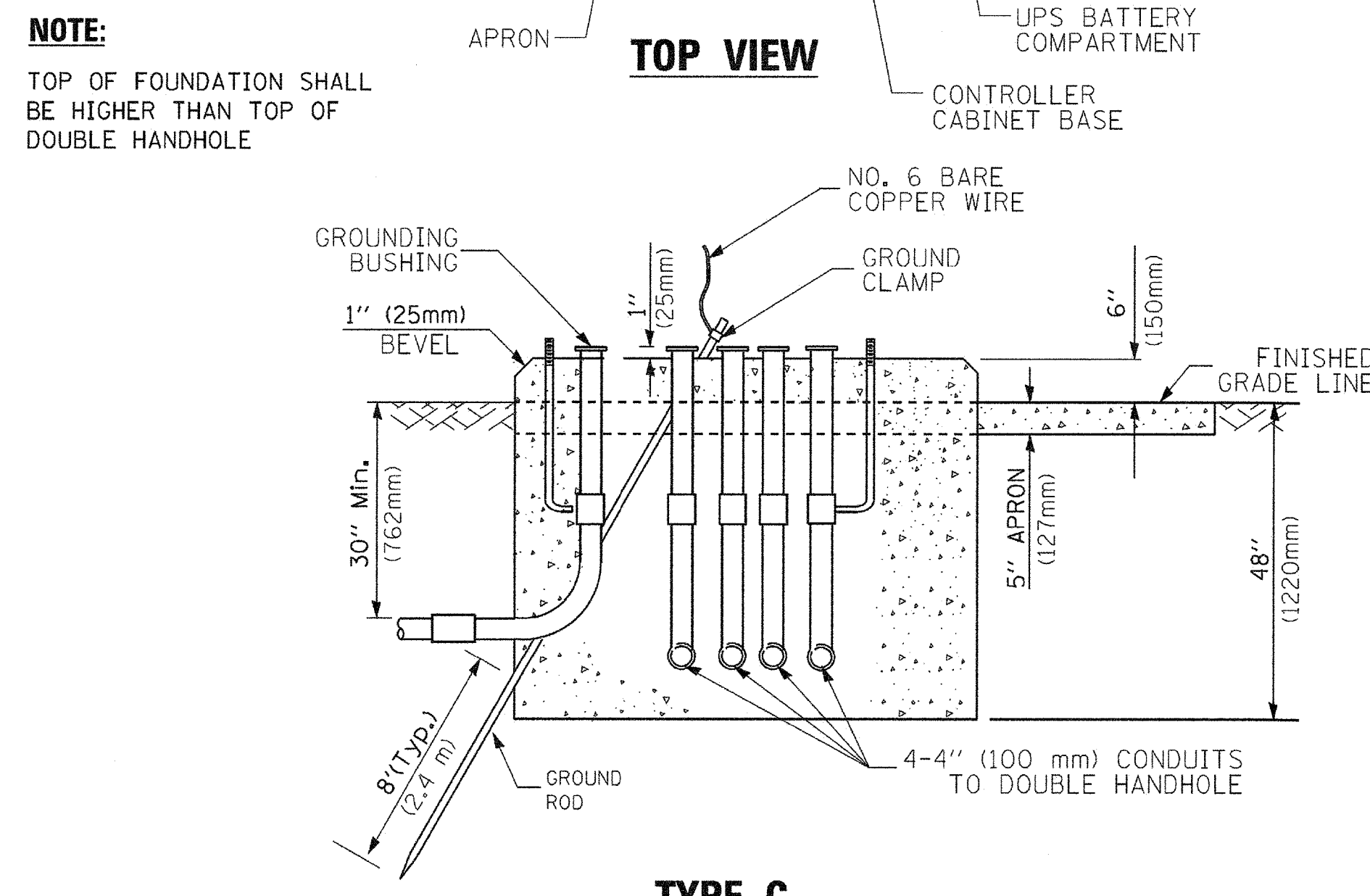
TOP VIEW



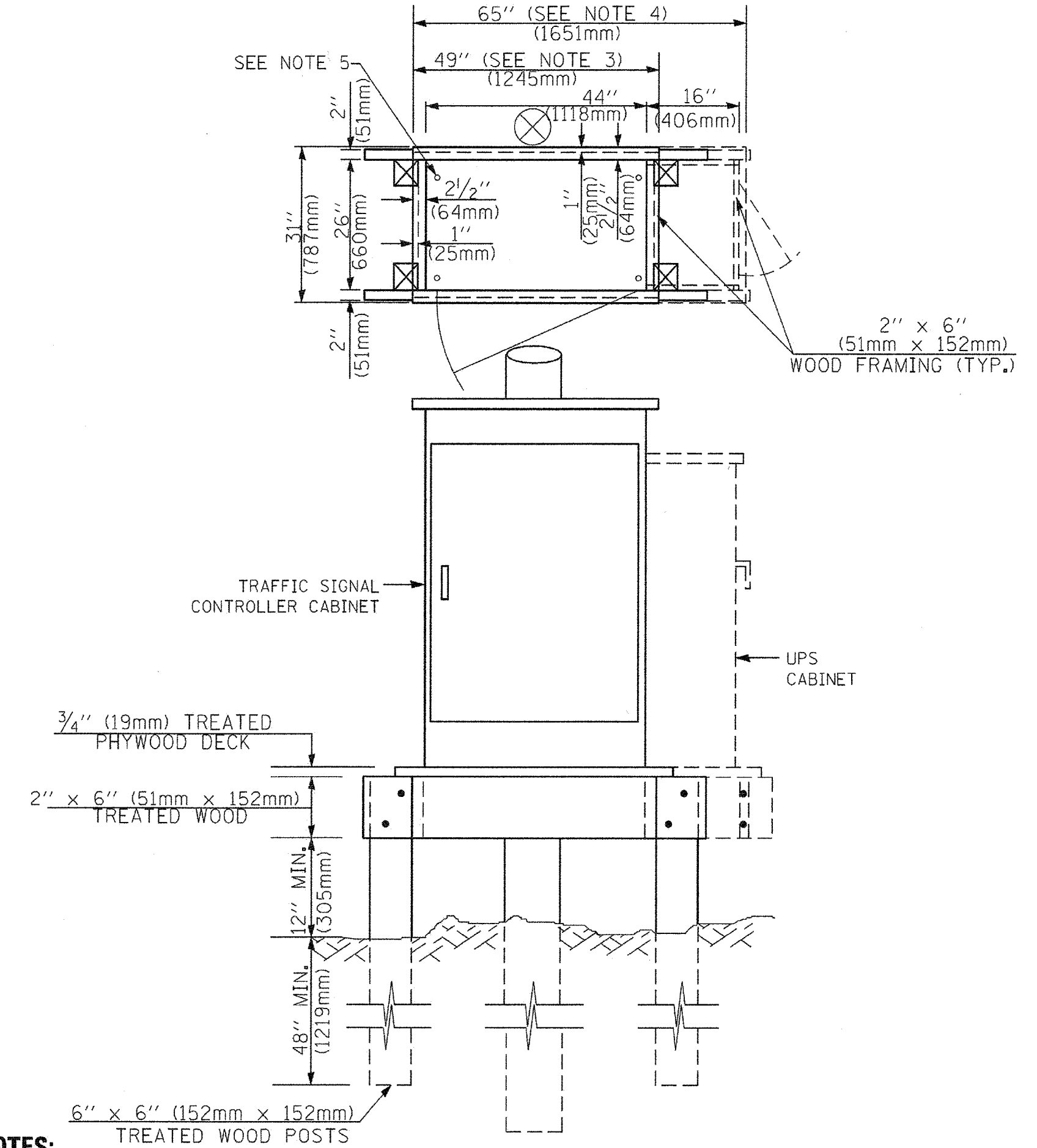
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



TOP VIEW



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001.

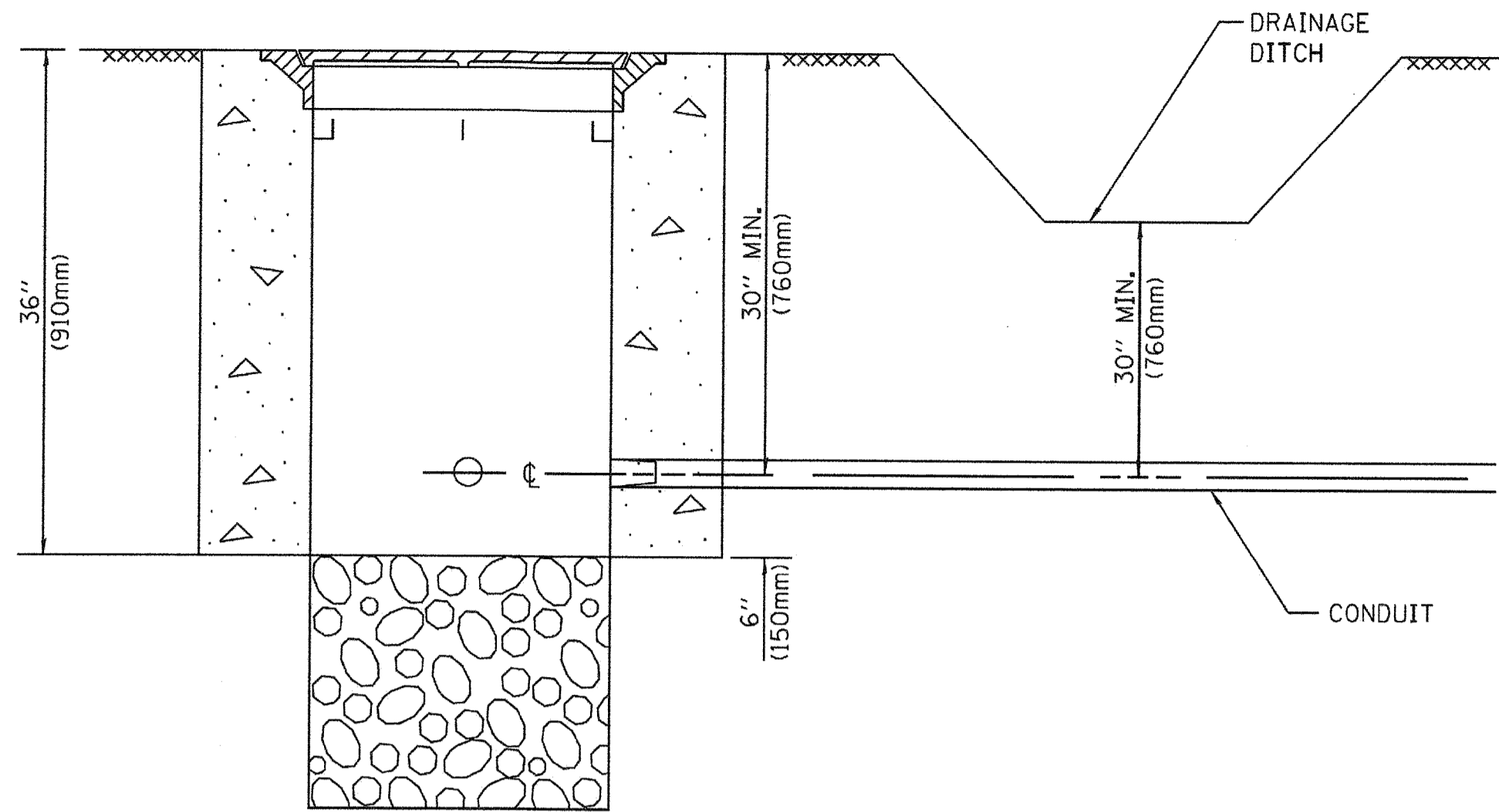
DEPTH OF MAST ARM FOUNDATIONS, TYPE E

FILE NAME =	USER NAME = Footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
cf:\pwwork\pwwork\footemj\d0108315\ts05.dgn		DRAWN - BCK	REVISED -
		CHECKED - DAD	REVISED -
		DATE - 10-28-09	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

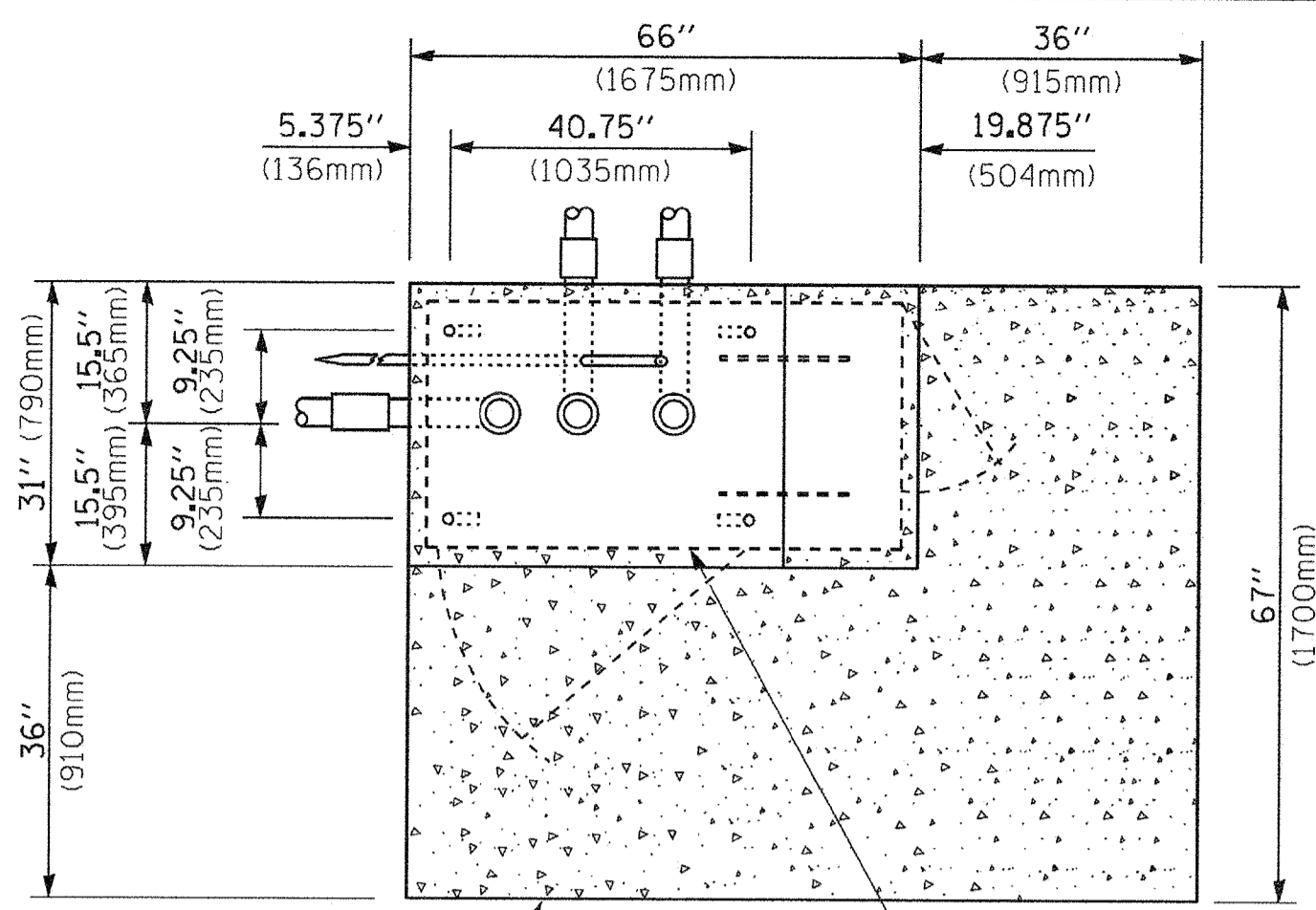
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	29
TS-05		CONTRACT NO. 61F60		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



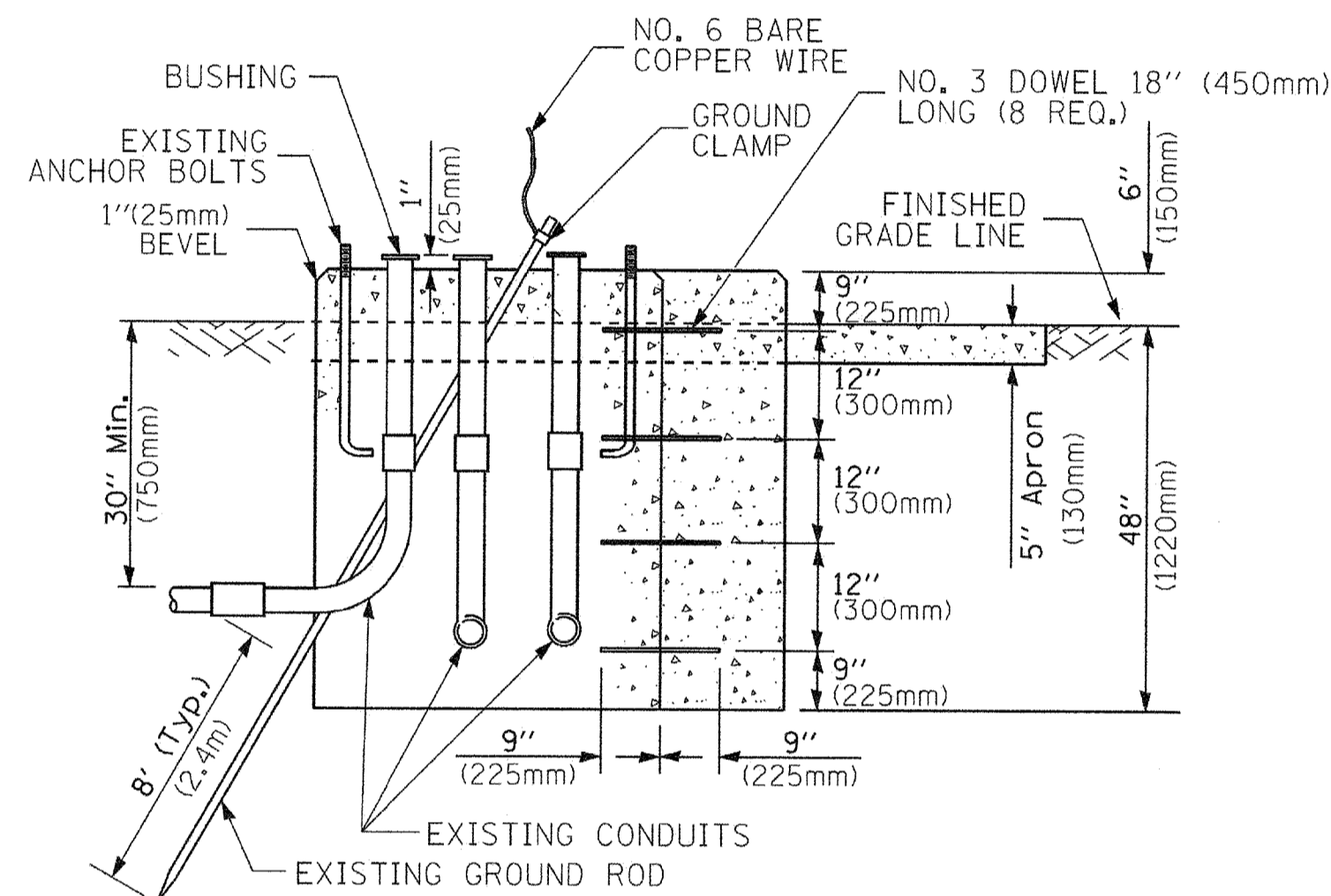
NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)



TOP VIEW
(NOT TO SCALE)

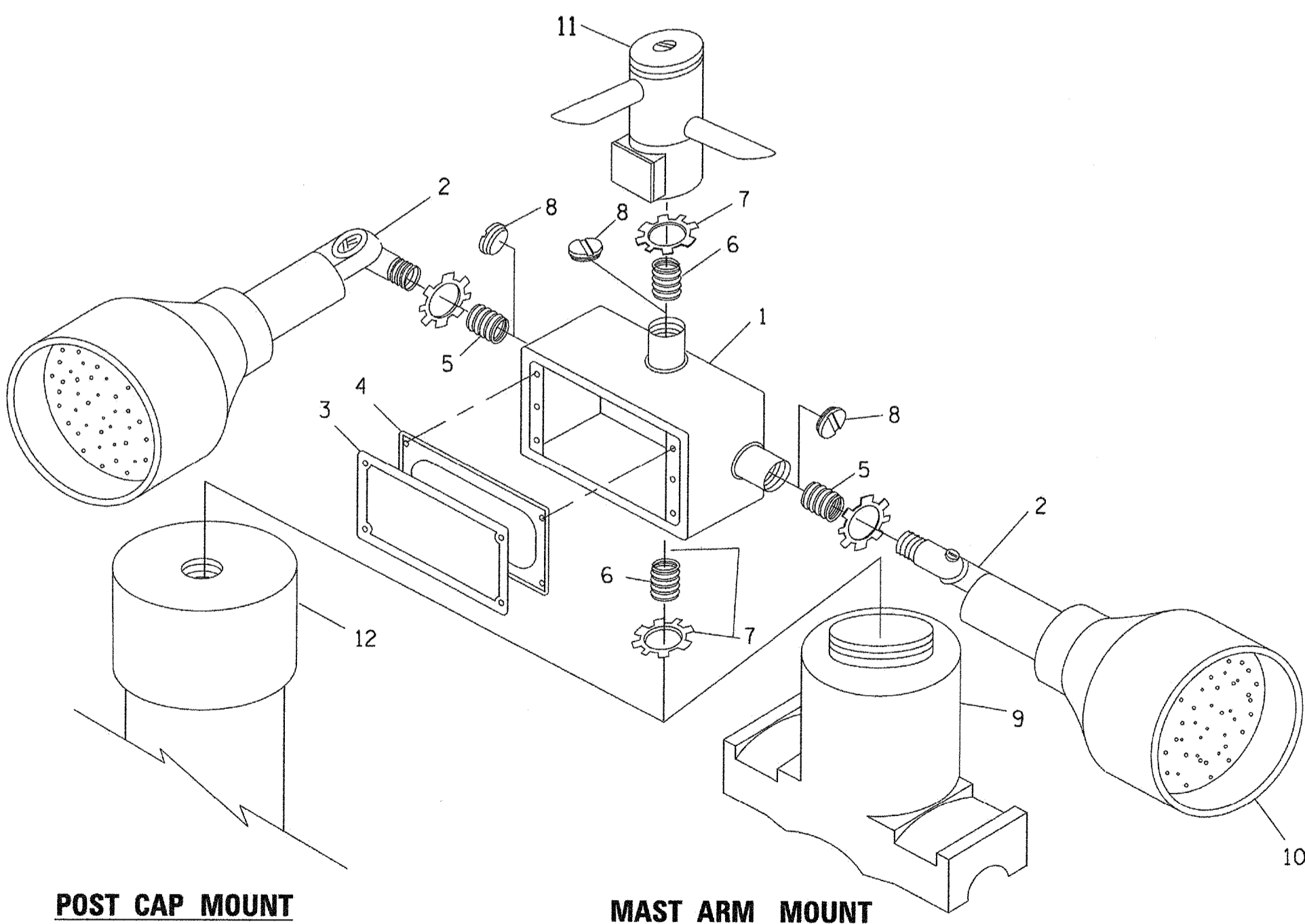


MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

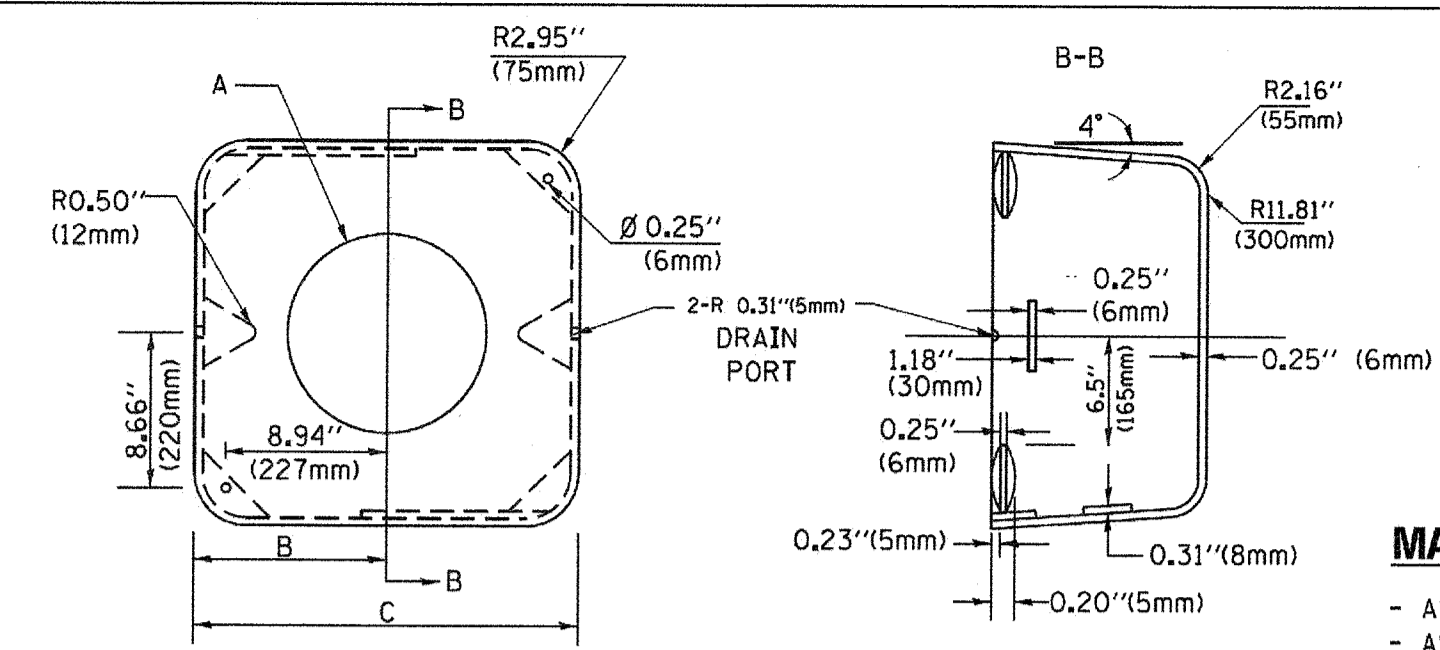
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-0-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



POST CAP MOUNT

MAST ARM MOUNT

EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIABLES	9.5" (241mm)	19" (483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIABLES	10.75" (273mm)	21.5" (546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIABLES	13.0" (330mm)	26" (660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIABLES	18.5" (470mm)	37" (940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

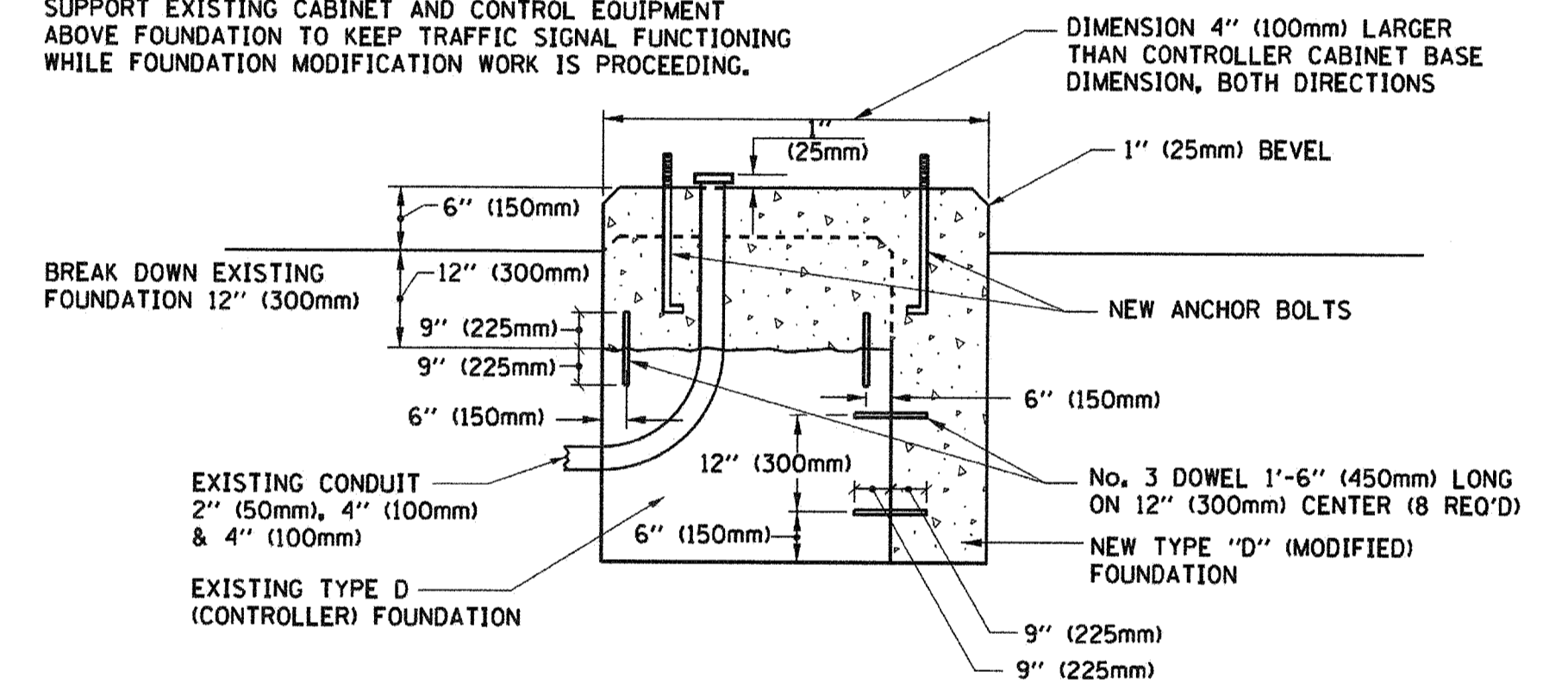
SHROUD

NOTES:

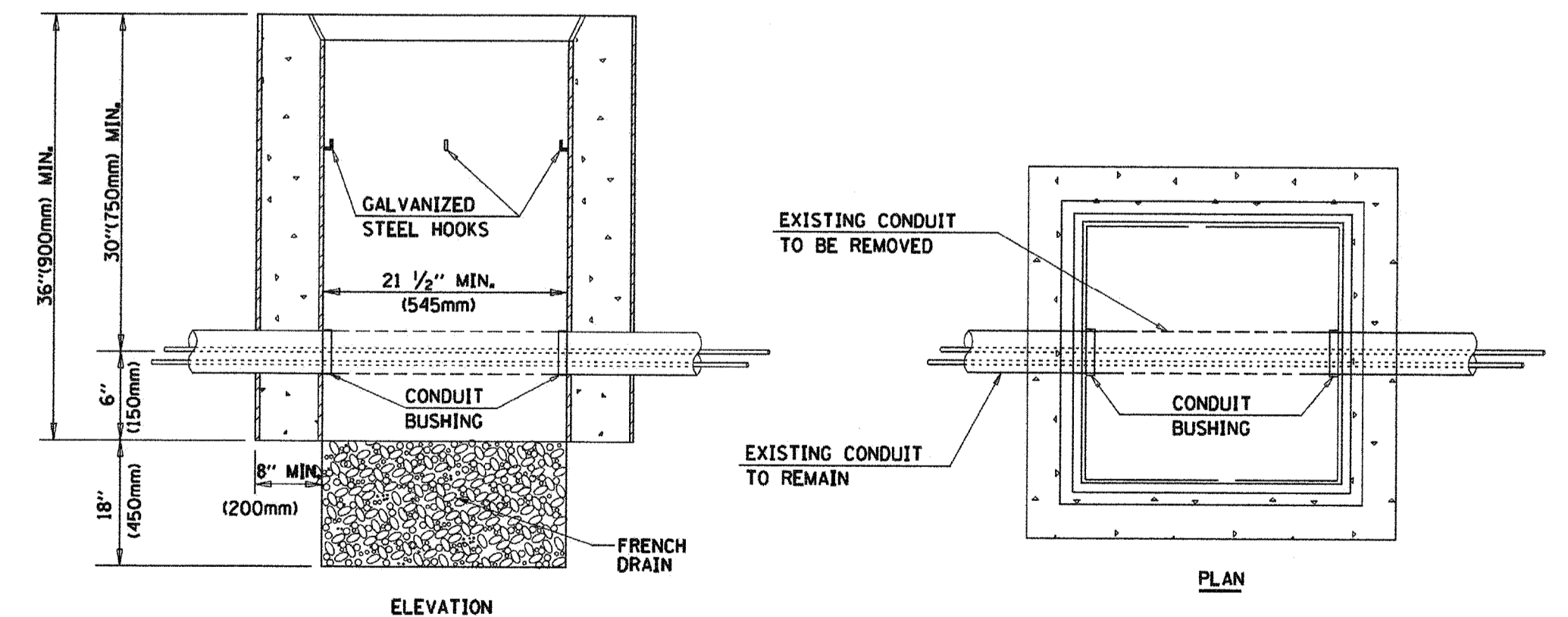
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

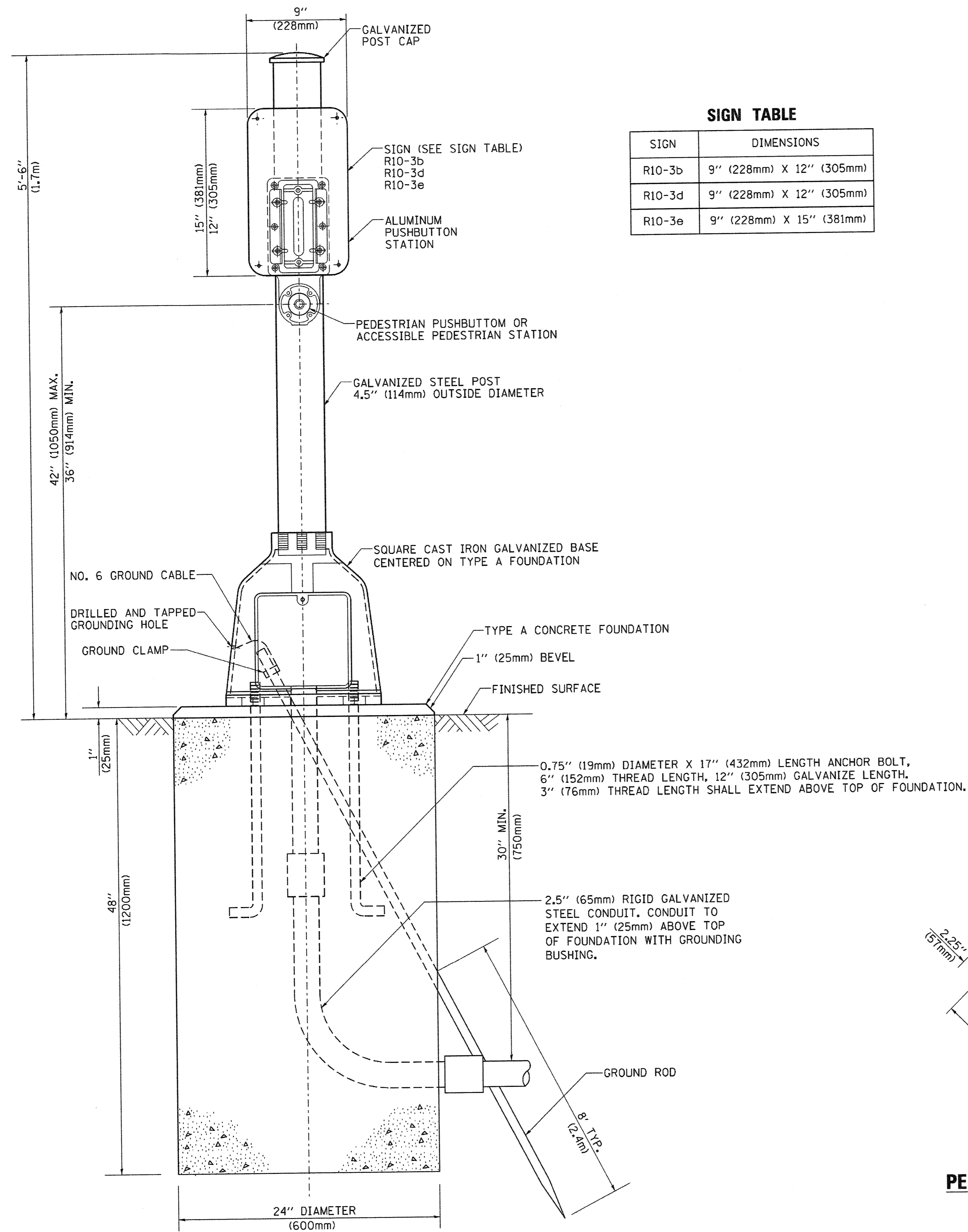
FILE NAME =	USER NAME = foatemj	DESIGNED - DAD	REVISED - DAG 1-1-14
cd:\pw\work\pwwork\foatemj\0108315\ts05.dgn		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

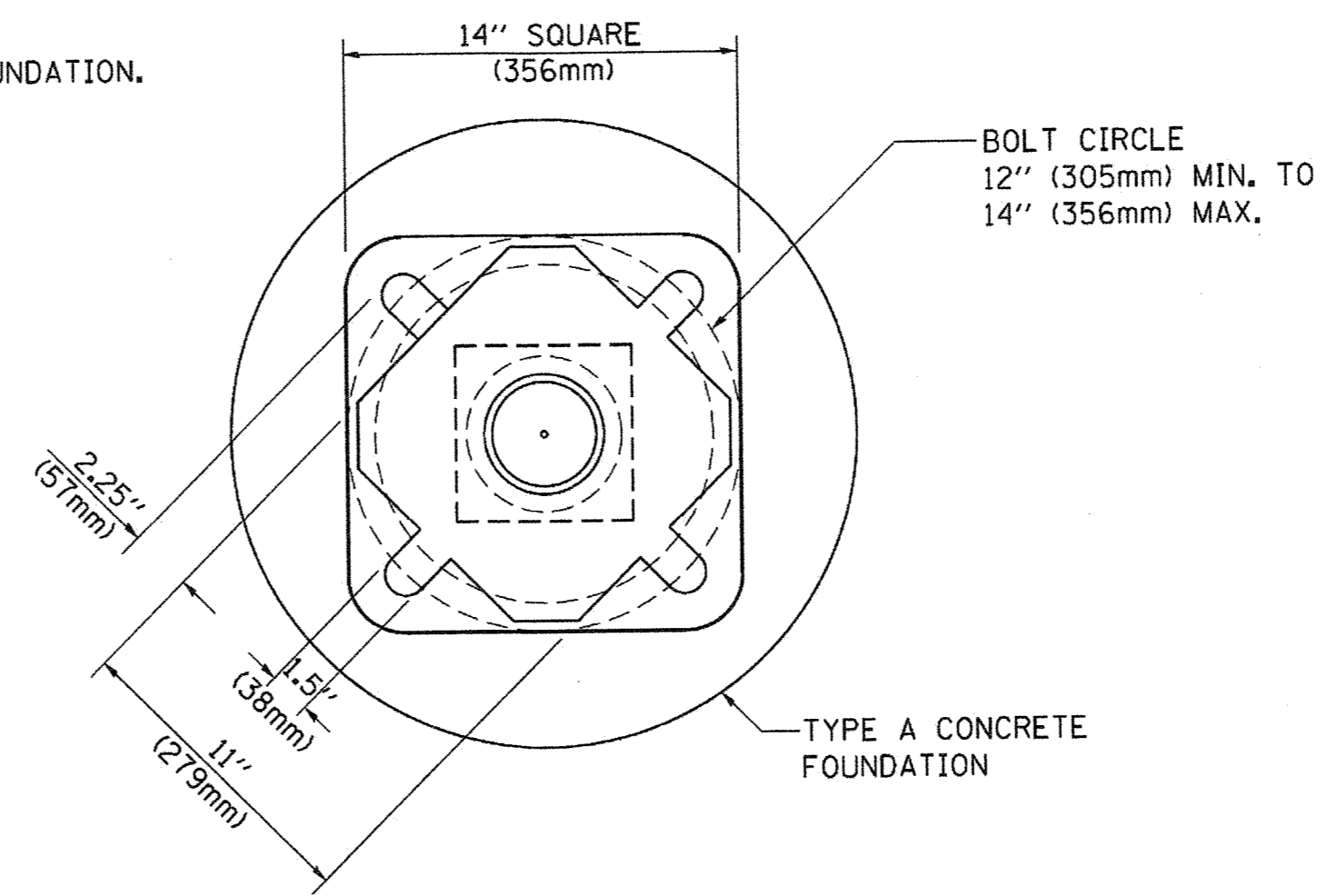
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	30
TS-05		CONTRACT NO. 61F60		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET NO. 6 OF 7 SHEETS STA. TO STA.



SIGN TABLE

SIGN	DIMENSIONS
R10-3b	9" (228mm) X 12" (305mm)
R10-3d	9" (228mm) X 12" (305mm)
R10-3e	9" (228mm) X 15" (381mm)



BOLT PATTERN

PEDESTRIAN PUSH BUTTON POST, TYPE A

FILE NAME =	USER NAME = footemj	DESIGNED - DAG	REVISED - DAG 1-1-14
ca:\pw_work\pawidot\footemj\d0108315\ts05.dgn		DRAWN - GND	REVISED -
	PLOT SCALE = 50.0000' / 1"	CHECKED - DAD	REVISED -
	PLOT DATE = 1/13/2014	DATE - 10/1/2012	REVISED -

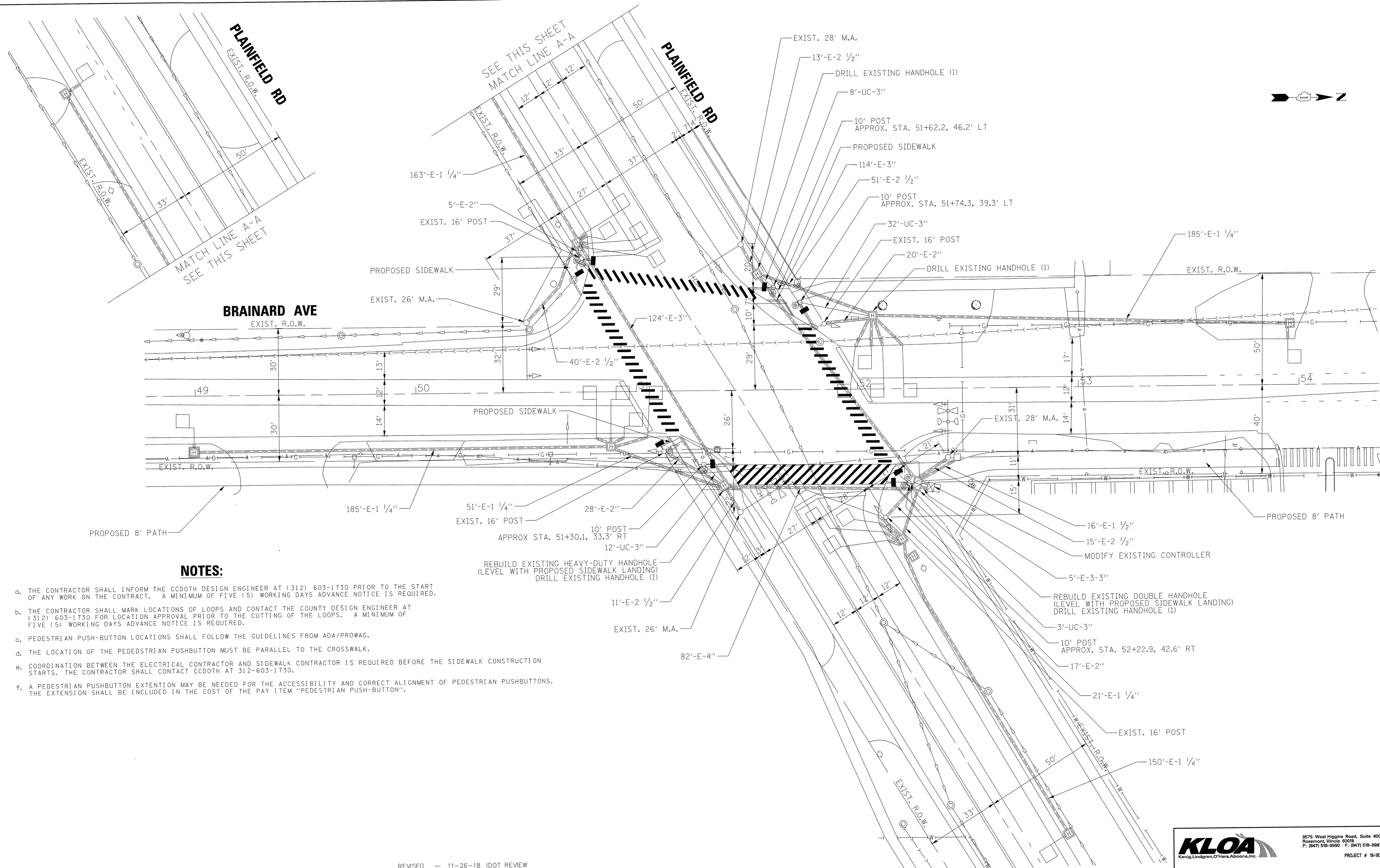
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 7 OF 7 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	31
TS-05			CONTRACT NO. 61F60	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

T S SHT NO. 1



NOTES:

- a. THE CONTRACTOR SHALL INFORM THE CDDOT DESIGN ENGINEER AT (312) 603-1730 PRIOR TO THE START OF ANY WORK ON THE CONTRACT. A MINIMUM OF FIVE (5) WORKING DAYS ADVANCE NOTICE IS REQUIRED.
- b. THE CONTRACTOR SHALL MARK LOCATIONS OF LOOPS AND CONTACT THE COUNTY DESIGN ENGINEER AT (312) 603-1730 FOR LOCATION APPROVAL PRIOR TO THE CUTTING OF THE LOOPS. A MINIMUM OF FIVE (5) WORKING DAYS ADVANCE NOTICE IS REQUIRED.
- c. PEDESTRIAN PUSH-BUTTON LOCATIONS SHALL FOLLOW THE GUIDELINES FROM ADA/PROWAG.
- d. THE LOCATION OF THE PEDESTRIAN PUSHBUTTON MUST BE PARALLEL TO THE CROSSWALK.
- e. COORDINATION BETWEEN THE ELECTRICAL CONTRACTOR AND SIDEWALK CONTRACTOR IS REQUIRED BEFORE THE SIDEWALK CONSTRUCTION STARTS. THE CONTRACTOR SHALL CONTACT CDDOT AT 312-603-1730.
- f. A PEDESTRIAN PUSHBUTTON EXTENSION MAY BE NEEDED FOR THE ACCESSIBILITY AND CORRECT ALIGNMENT OF PEDESTRIAN PUSHBUTTONS. THE EXTENSION SHALL BE INCLUDED IN THE COST OF THE PAY ITEM "PEDESTRIAN PUSH-BUTTON".

REVISED	11-26-18	IDOT REVIEW
REVISED	12-03-18	COOK COUNTY
REVISED	12-10-18	COOK COUNTY
REVISED	12-17-18	IDOT REVIEW
REVISED	1-14-19	IDOT REVIEW
REVISED	1-30-19	COOK COUNTY

FILE NAME =	USER NAME = dschnabel	DESIGNED - MD
01 - Signal.dgn		DRAWN - MD
	PLOT SCALE = 20.0000' / 1"	CHECKED - DS
	PLOT DATE = 11/28/2018	DATE - 09/19/2018

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
BRAINARD AVE AND PLAINFIELD RD

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

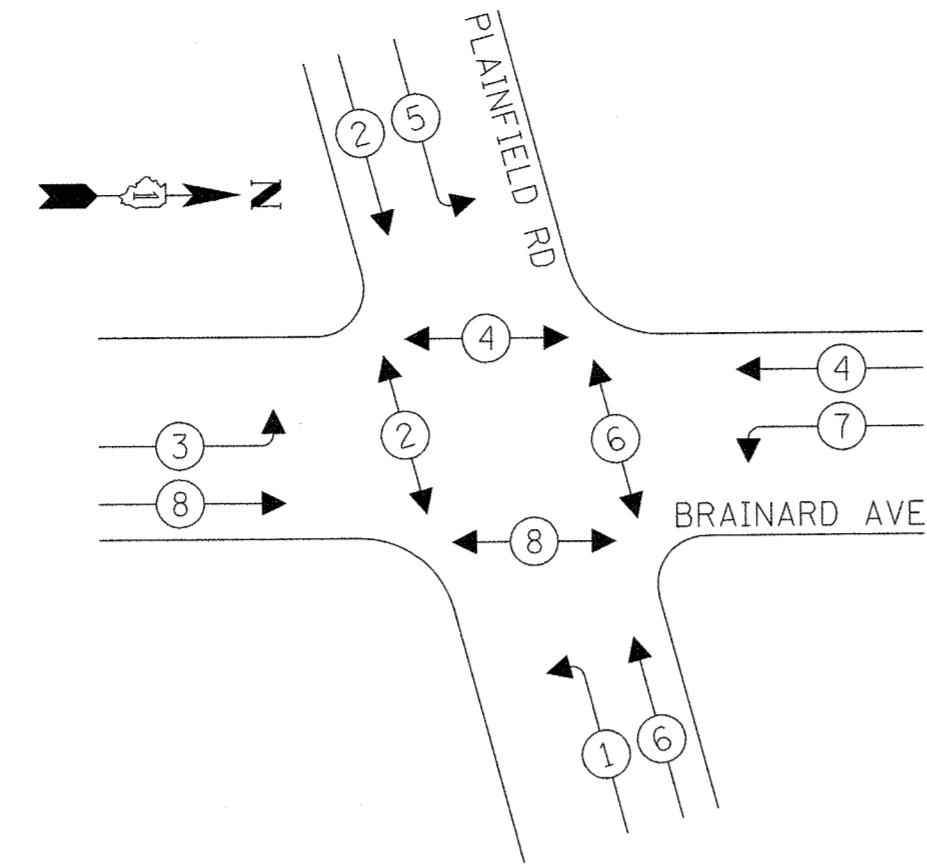
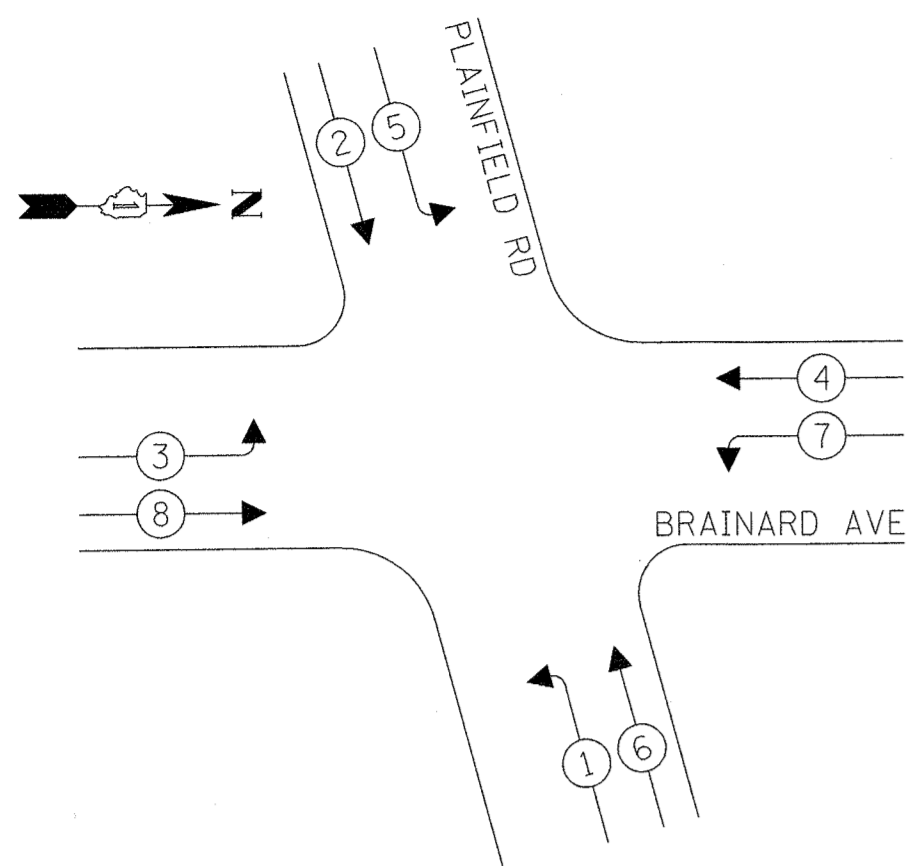
KLOA
Kenig, Lindgren, O'Hara, Aboona, Inc.

9576 West Higgins Road, Suite 400
Rosemont, Illinois 60018
P: (847) 518-9990 F: (847) 518-9987
PROJECT # 18-187

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	32
CONTRACT NO. 61F60			ILLINOIS FED. AID PROJECT	

EXISTING CONTROLLER SEQUENCE

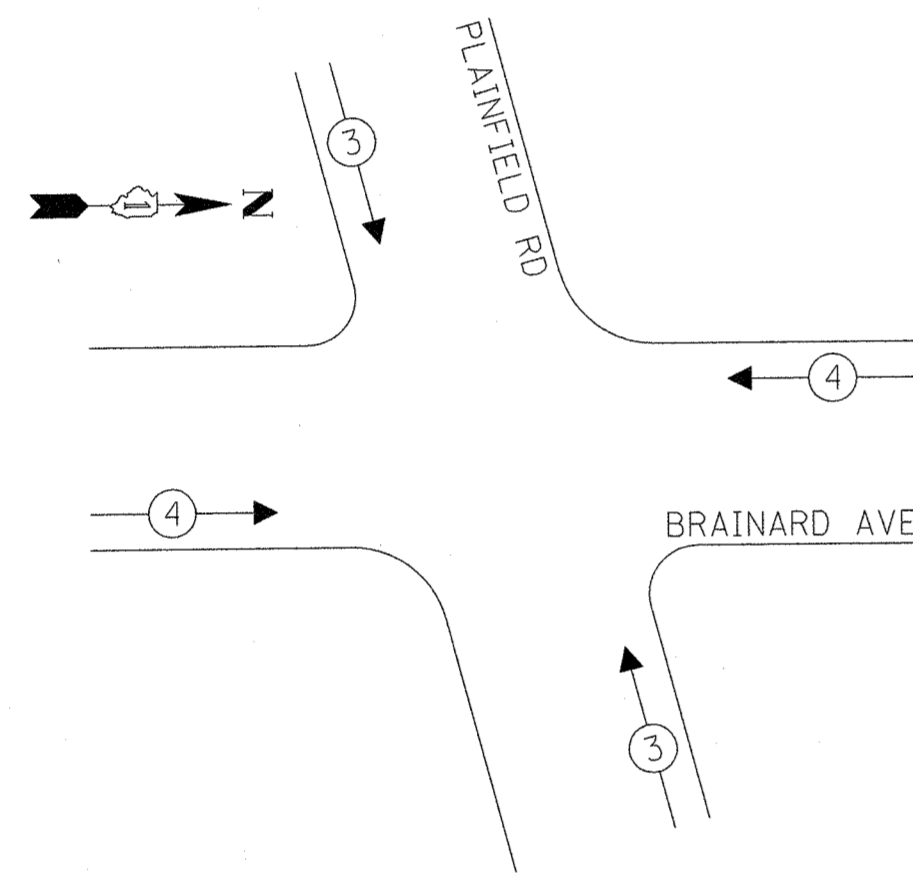
PROPOSED CONTROLLER SEQUENCE



LEGEND:

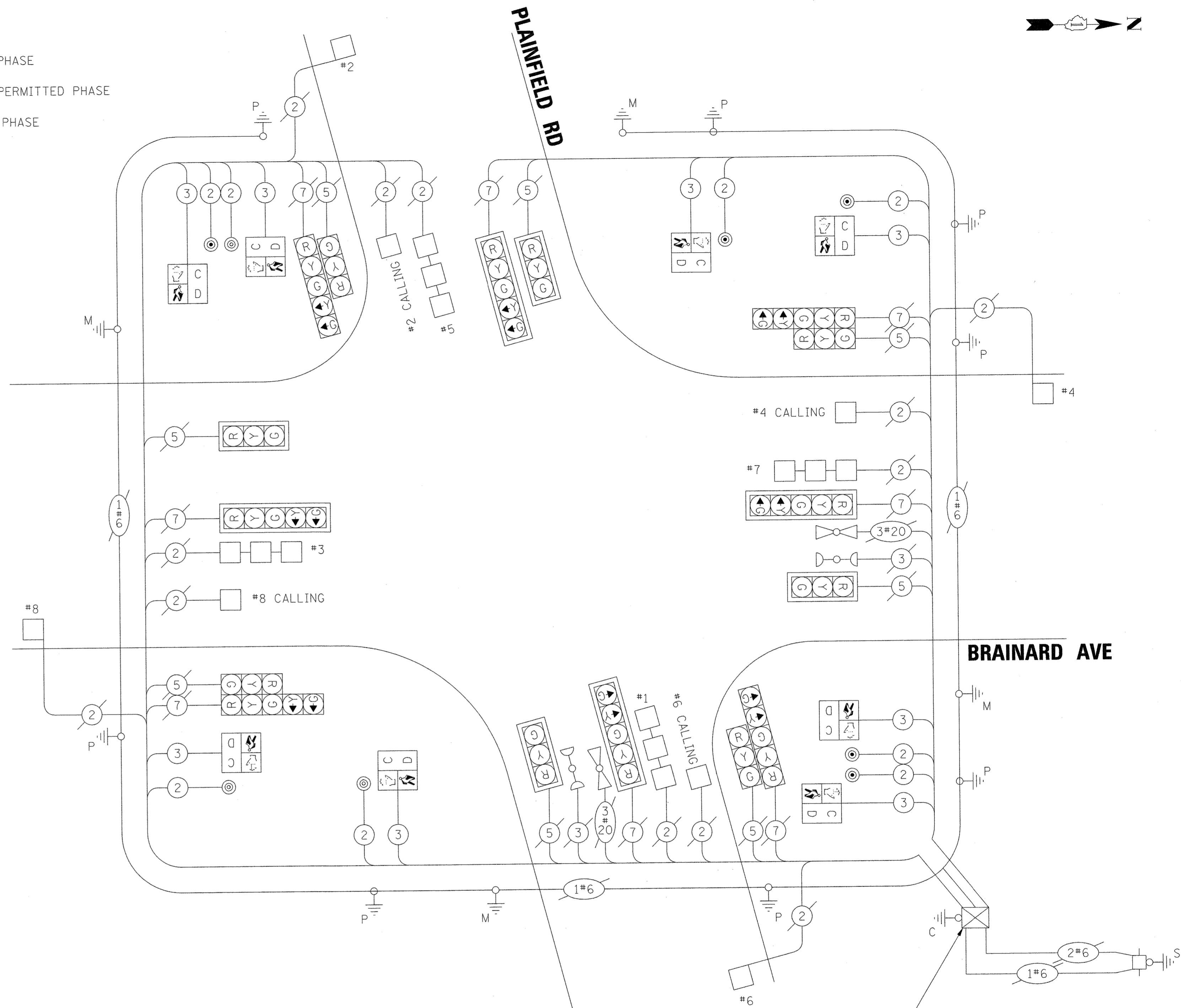
- ← ⊛ ← PROTECTED PHASE
- ← ⊛ ← PROTECTED/PERMITTED PHASE
- ← ⊛ → PEDESTRIAN PHASE
- ⊛ OL OVERLAP

EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



EXISTING AND PROPOSED EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTORS	3	4
MOVEMENT	↙	↘

EMERGENCY VEHICLE PREEMPTION DIAGRAM



CABLE PLAN
(NOT TO SCALE)

MODIFY EXISTING CONTROLLER

LOCATION: BRAINARD AVENUE AT PLAINFIELD ROAD
COOK COUNTY
DEPARTMENT OF TRANSPORTATION AND HIGHWAYS
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
CONTROLLER	1	100	1.00	100.00
VEHICLE DET.	12	5	1.00	60.00
PED. SIGNAL	8	25	1.00	200.00
12" SIGNAL (RED)	16	17	0.50	136.00
(YELLOW)	16	25	0.05	20.00
(GREEN)	16	15	0.45	108.00
(ARROW)	8	12	0.10	9.60
TOTAL =				633.60

ENERGY COSTS TO:
COOK COUNTY BUREAU OF ADMINISTRATION
118 N. CLARK ST, ROOM 801
CHICAGO, IL 60602
TOWER ACCOUNT NO. 1350140010
SUUPLIMENT NO. WC150502

ENERGY COST SHARE:
COOK COUNTY: 100%

ENERGY SUPPLY: CONTACT: COMED
PHONE: (866)639-3532
COMPANY: COMED
EFFECTIVE DATE: TO BE DETERMINED

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	55
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1,278
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,334
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	106
TRAFFIC SIGNAL POST, GALVANIZED STEEL, 10 FT.	EACH	4
CONCRETE FOUNDATION, TYPE A	FOOT	16
DRILL EXISTING HANDHOLE	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
PEDESTRIAN PUSH-BUTTON	EACH	8
MODIFY EXISTING CONTROLLER	EACH	1
REBUILD EXISTING HEAVY DUTY HANDHOLE	EACH	1
REBUILD EXISTING DOUBLE HANDHOLE	EACH	1

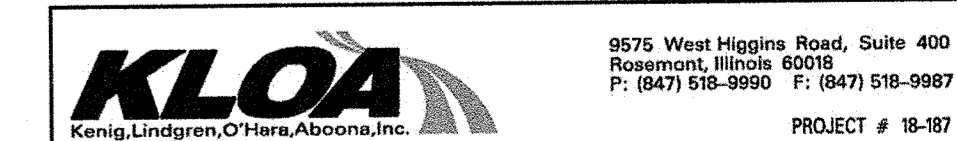
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
BRAINARD AVE AND PLAINFIELD RD**

FILE NAME = 02 - Cable.dgn	USER NAME = dschnabel
PLOT SCALE = 28.0000' / in.	PLOT DATE = 11/28/2018

DESIGNED - MD	REVISED - 11-26-18 IDOT REVIEW
DRAWN - MD	REVISED - 12-03-18 COOK COUNTY
CHECKED - DS	REVISED - 12-10-18 COOK COUNTY
DATE - 09/19/2018	REVISED - 12-17-18 IDOT REVIEW

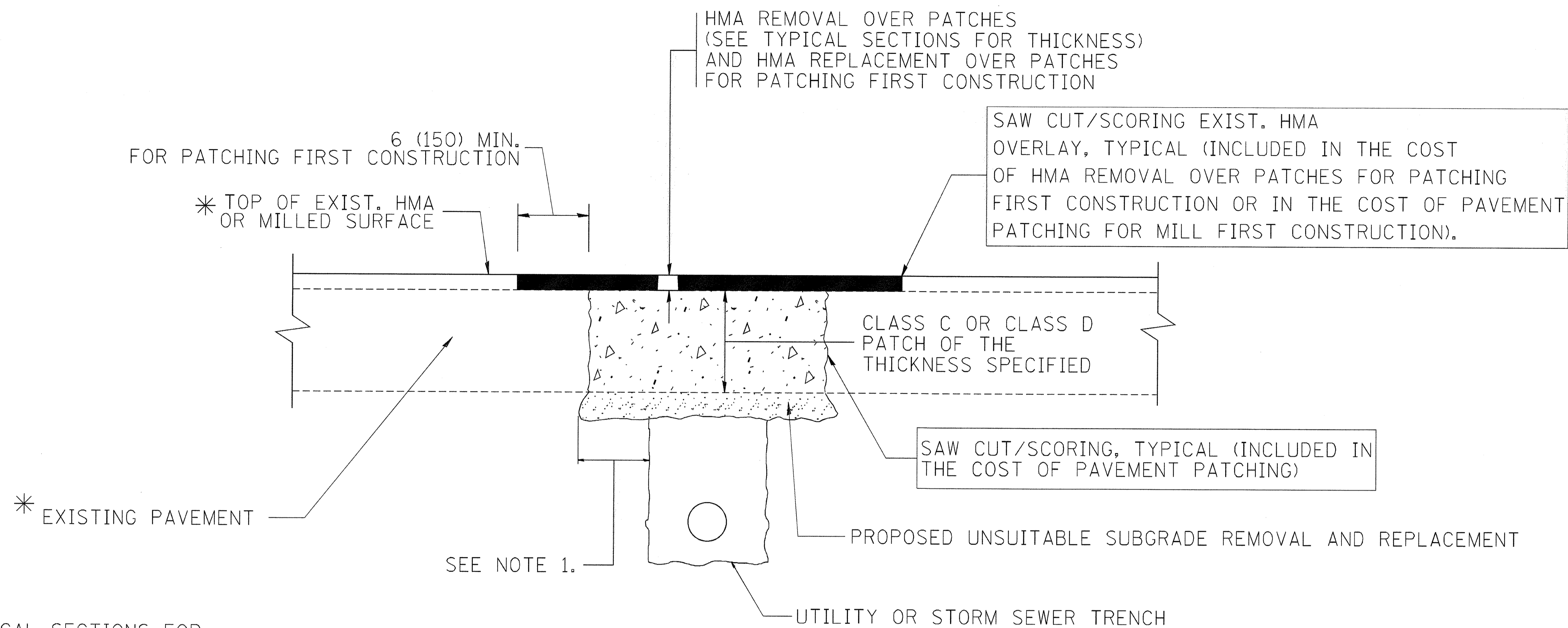
SCALE: SHEET OF SHEETS STA. TO STA.



9575 West Higgins Road, Suite 400
Rosemont, Illinois 60018
P: (847) 518-9990 F: (847) 518-9987
PROJECT # 18-187

F.A.L. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	33
CONTRACT NO. 61F60			ILLINOIS FED. AID PROJECT	

TS SHT NO. 2



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME = c:\projects\diststd22x34\bd22.dgn	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT		F.A.U. RTE. 2704	SECTION 14-00041-00-BT	COUNTY COOK	TOTAL SHEETS 47	SHEET NO. 34	
	PLOT SCALE = 50,000 ' / IN.	DRAWN -	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	BD400-04 (BD-22)				
	PLOT DATE = 10/27/2008	CHECKED -	REVISED - R. BORO 09-04-07		CONTRACT NO. 61F60							
		DATE - 10-25-94	REVISED - K. ENG 10-27-08		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ③)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ③)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001

18" (450) MAX.

EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

1/4" (5) **

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

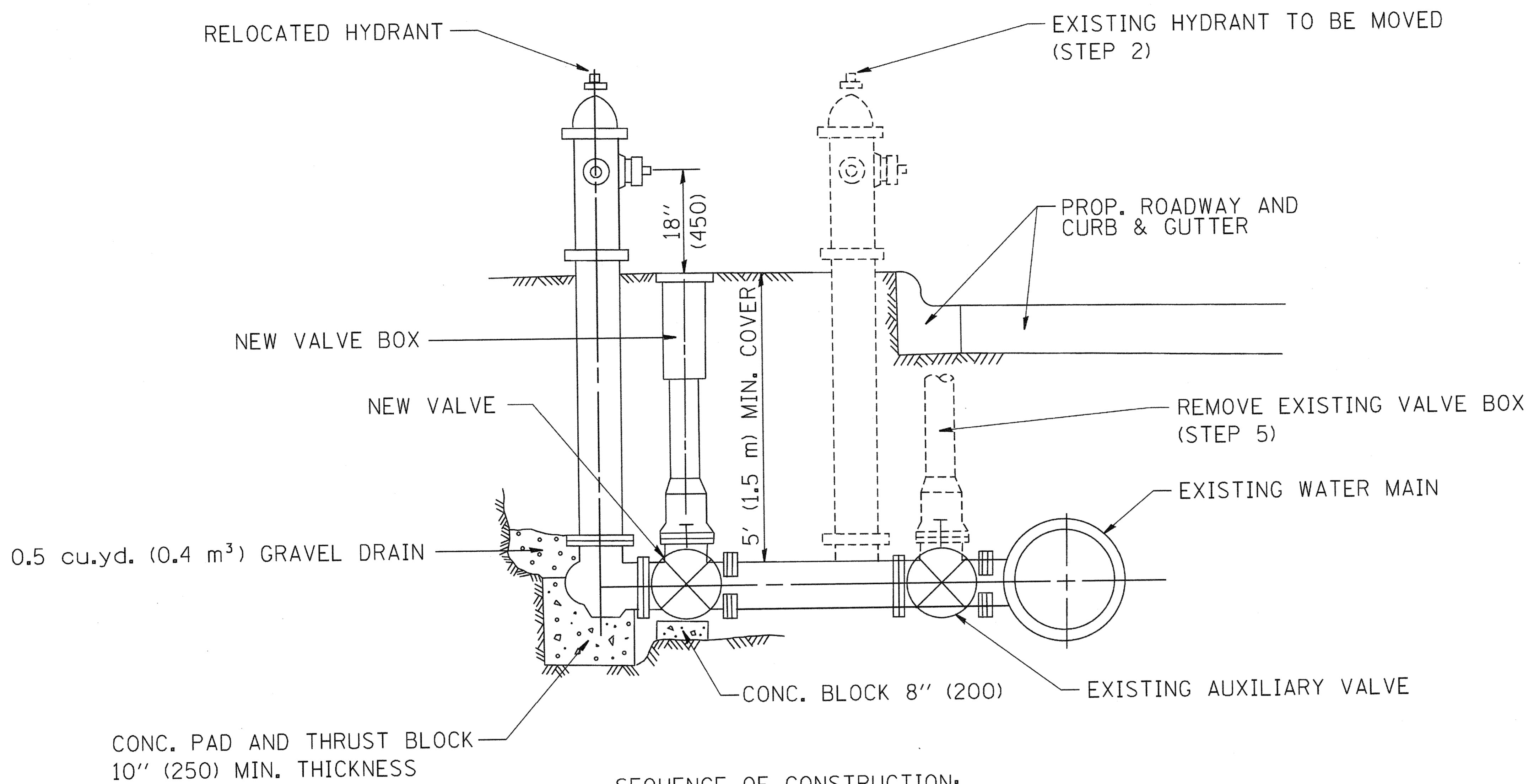
BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = drivakosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT			F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pwork\p1dot\drivakosgn\0108315\bd24.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	2704	14-00041-00-BT	COOK	47	35
		CHECKED -	REVISED - M. GOMEZ 01-22-01						BD600-06 (BD-24)				
		PLOT DATE = 12/15/2009	DATE - 03-11-94						CONTRACT NO. 61F60				
			REVISED - R. BORO 12-15-09					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					



SEQUENCE OF CONSTRUCTION:

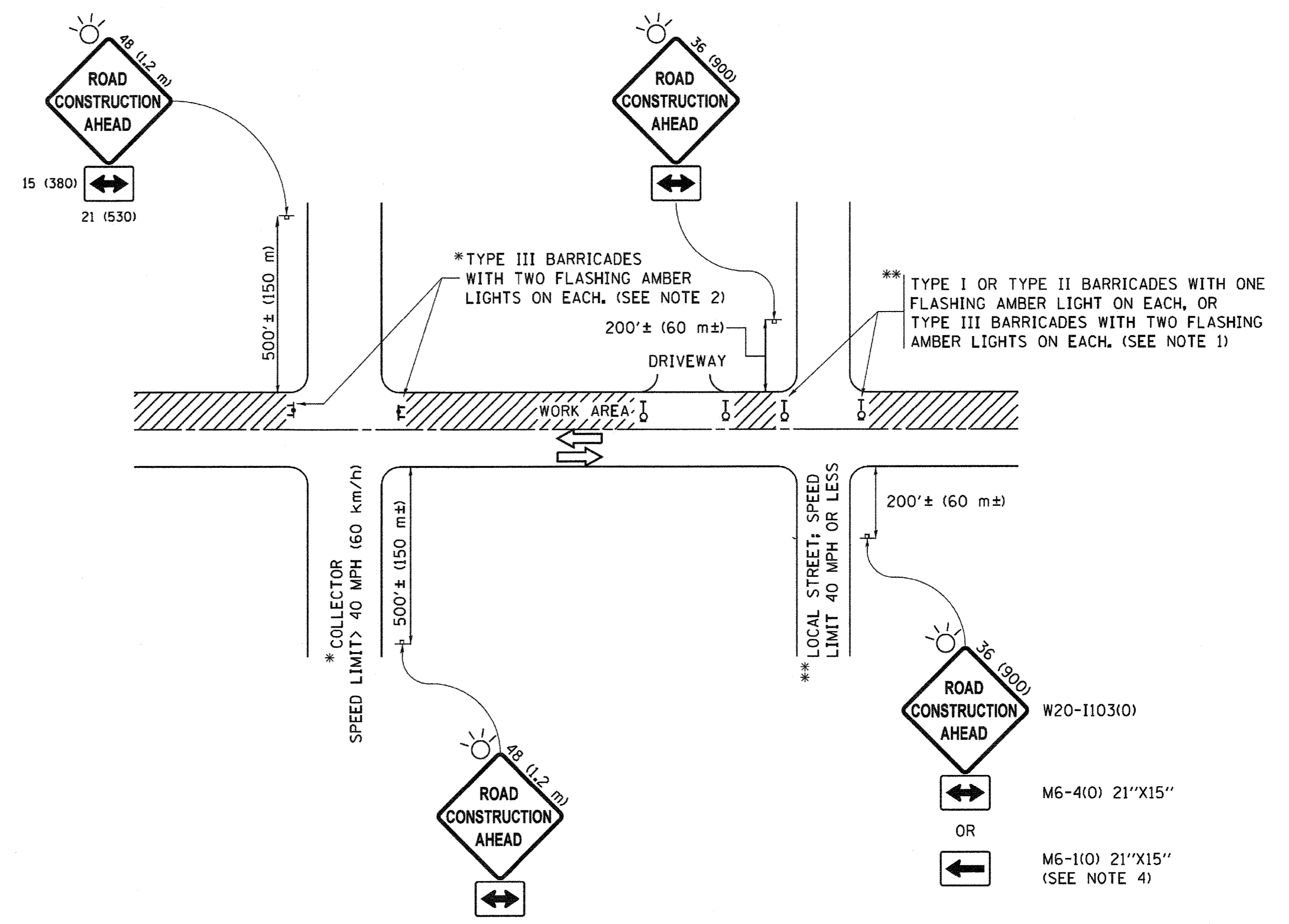
1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

ALL WORK TO BE DONE IN ACCORDANCE WITH ARTICLE 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

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

FILE NAME = W:\distatd\22x34\bd36.dgn	USER NAME = goglienobt	DESIGNED -	REVISED - R. SHAH 09-09-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FIRE HYDRANT TO BE MOVED			F.A.U. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - R. SHAH 10-25-94					2704	14-00041-00-BT	COOK	47	36
PLOT DATE = 1/4/2008	DATE -	REVISED -	REVISED -	SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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 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. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. 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).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S), THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

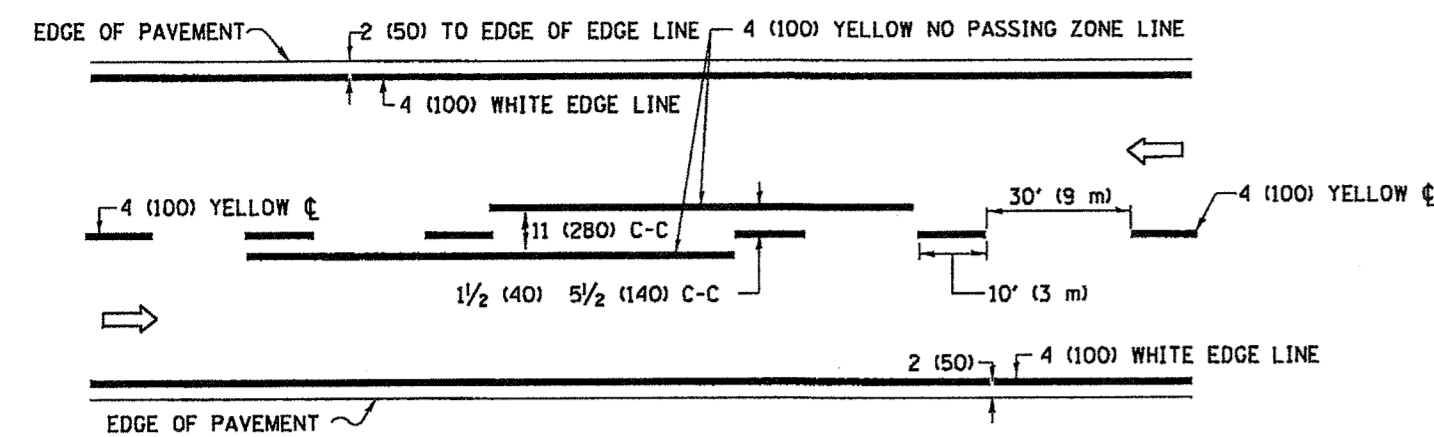
FILE NAME =	USER NAME = foatemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
per\11084EBIDINTEGallinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\Dist 1\DRM\CADData\CADsheets\tcl0.dgn		DRAWN - T. RAMMACHER 01-06-00	REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

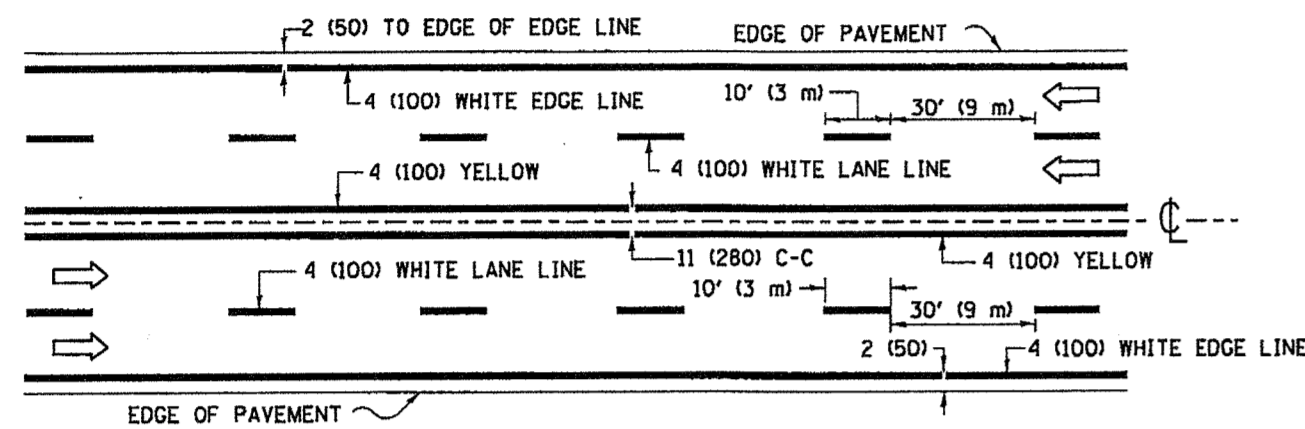
**TRAFFIC CONTROL AND PROTECTION FOR
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.
-------------	---------	------	--------	------	---------

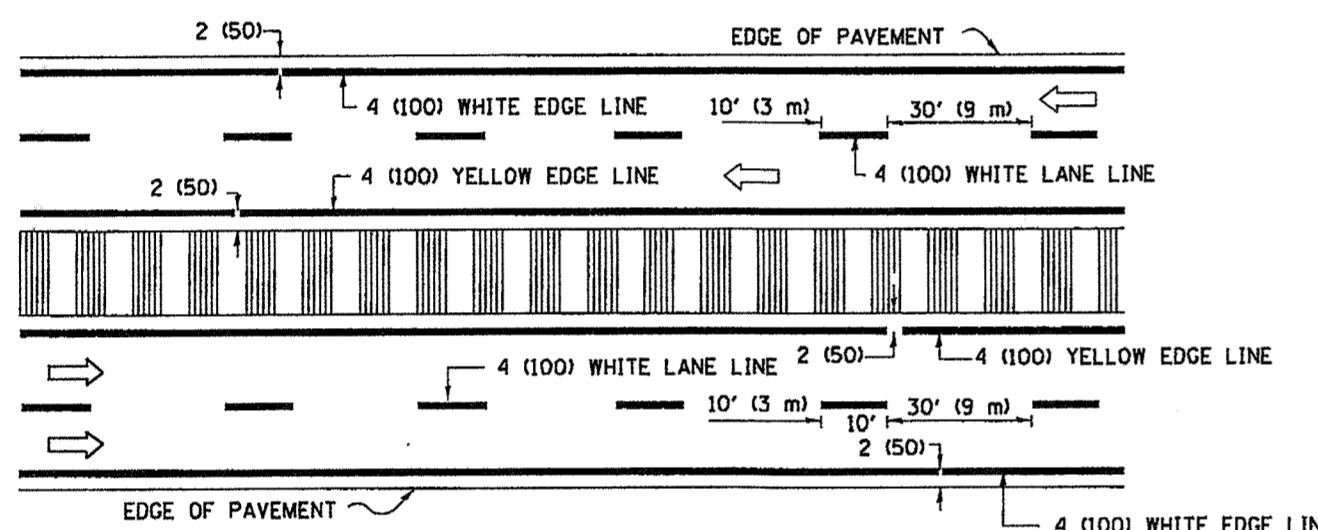
F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	37
TC-10			CONTRACT NO. 61F60	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

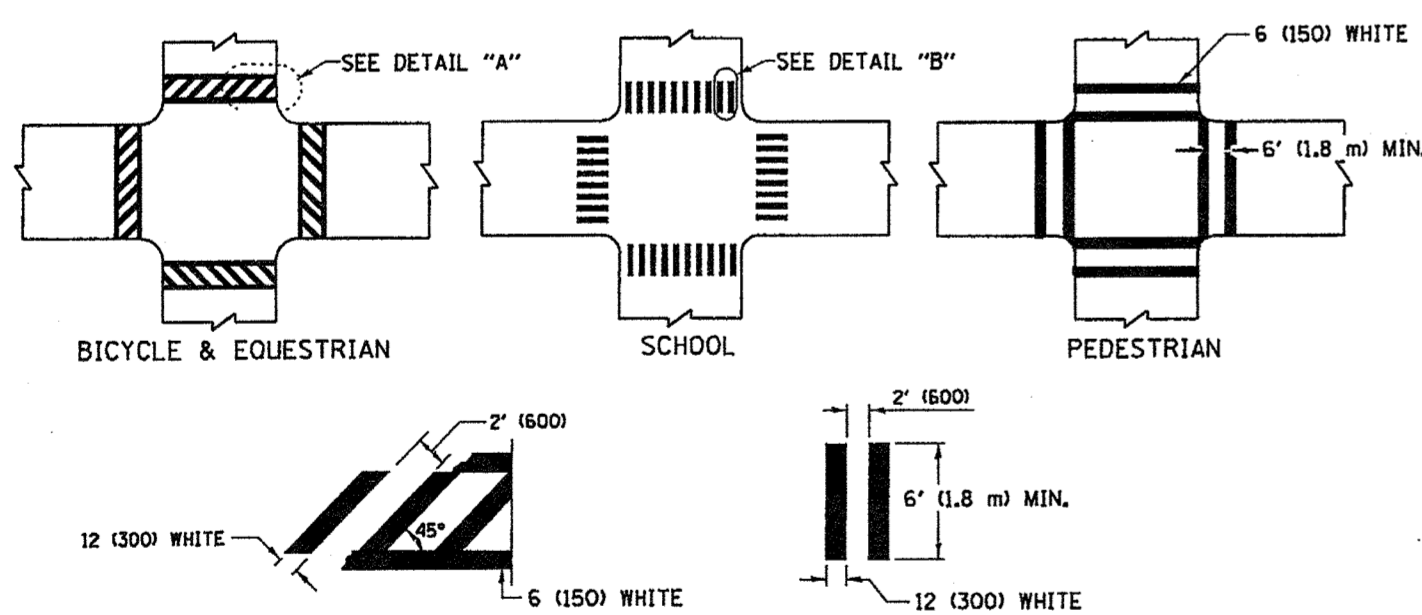


MULTI-LANE UNDIVIDED



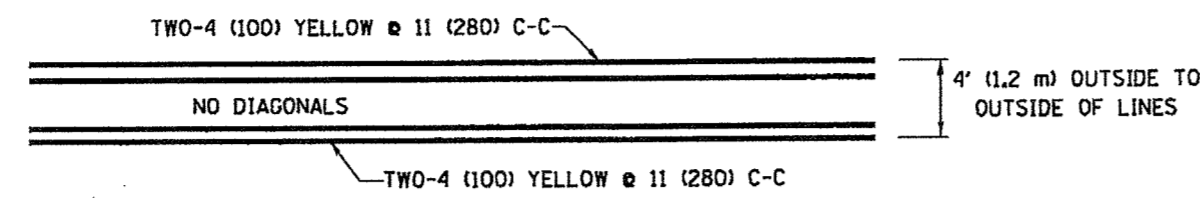
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

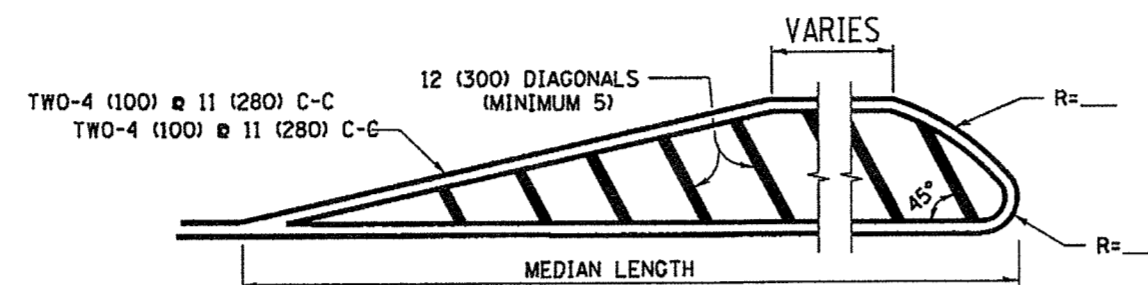


DETAIL "A" TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



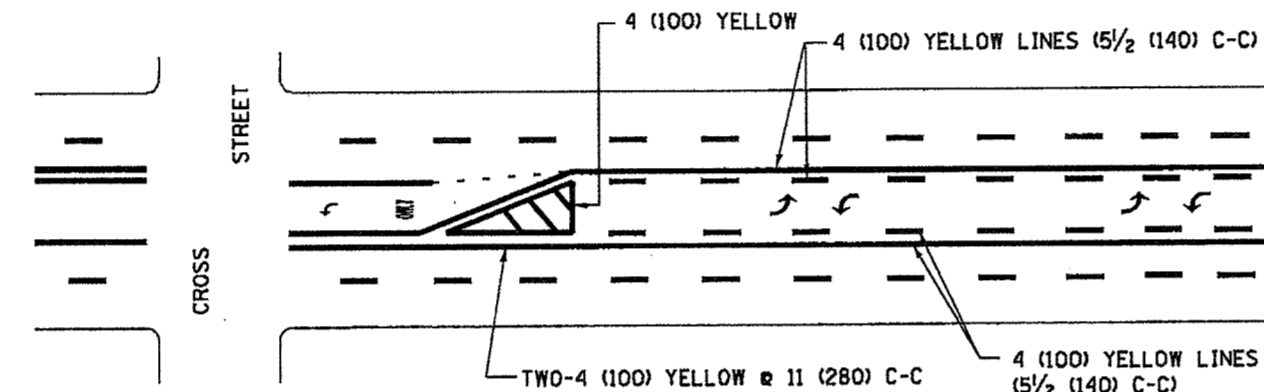
4' (1.2 m) WIDE MEDIANS ONLY



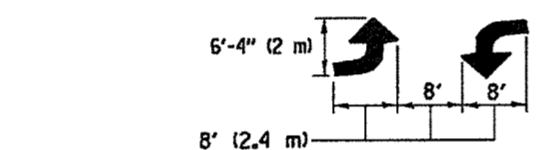
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

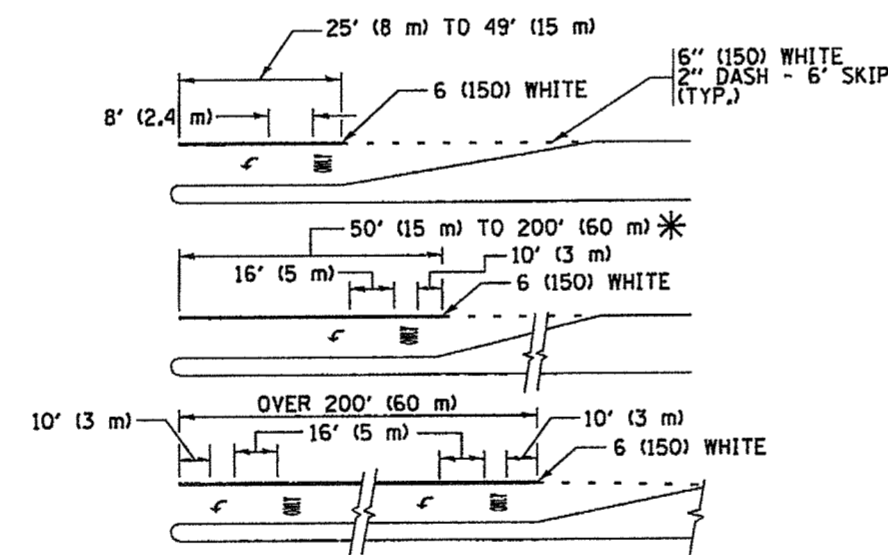
MEDIANS OVER 4' (1.2 m) WIDE



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



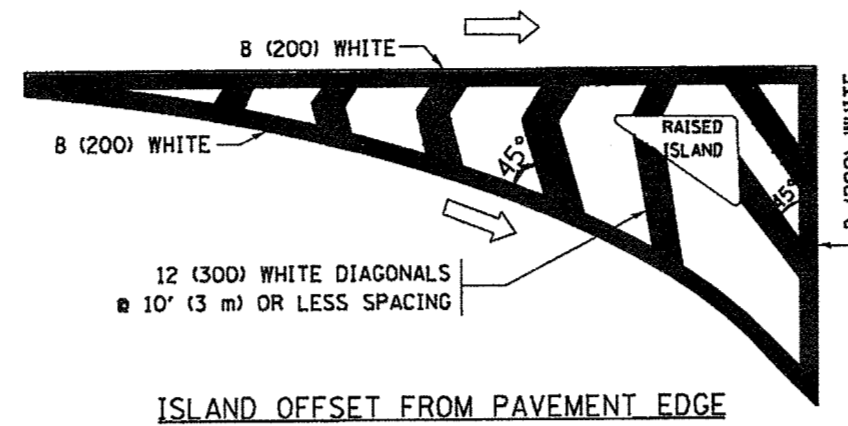
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



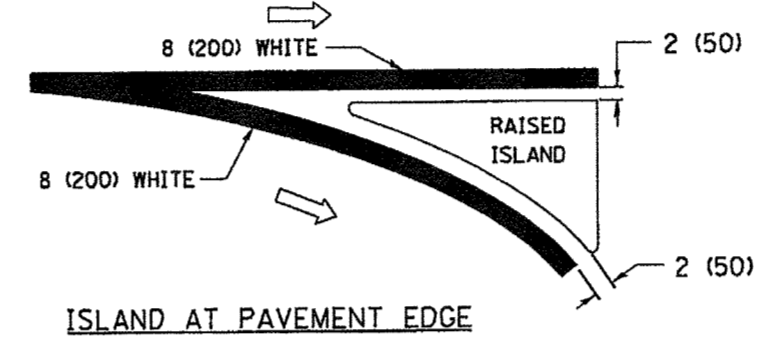
FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

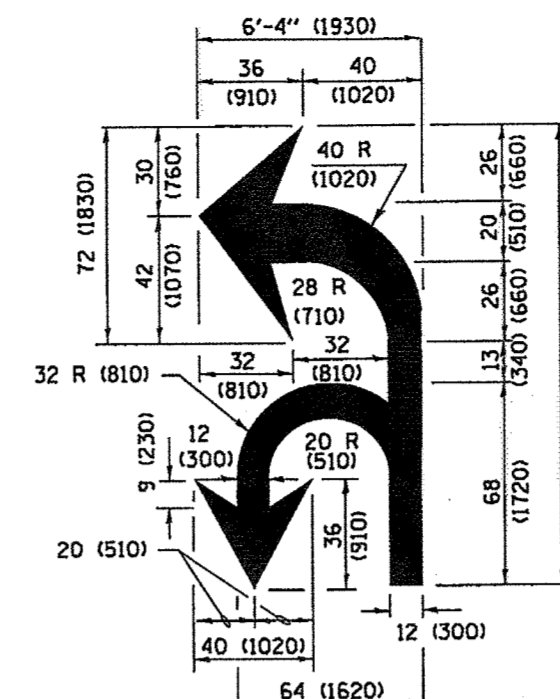
TYPICAL TURN LANE MARKING



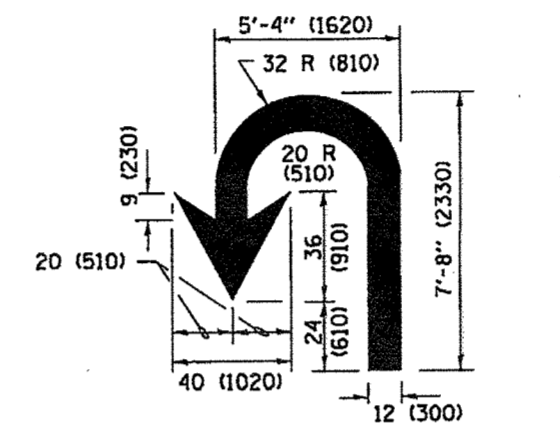
ISLAND OFFSET FROM PAVEMENT EDGE



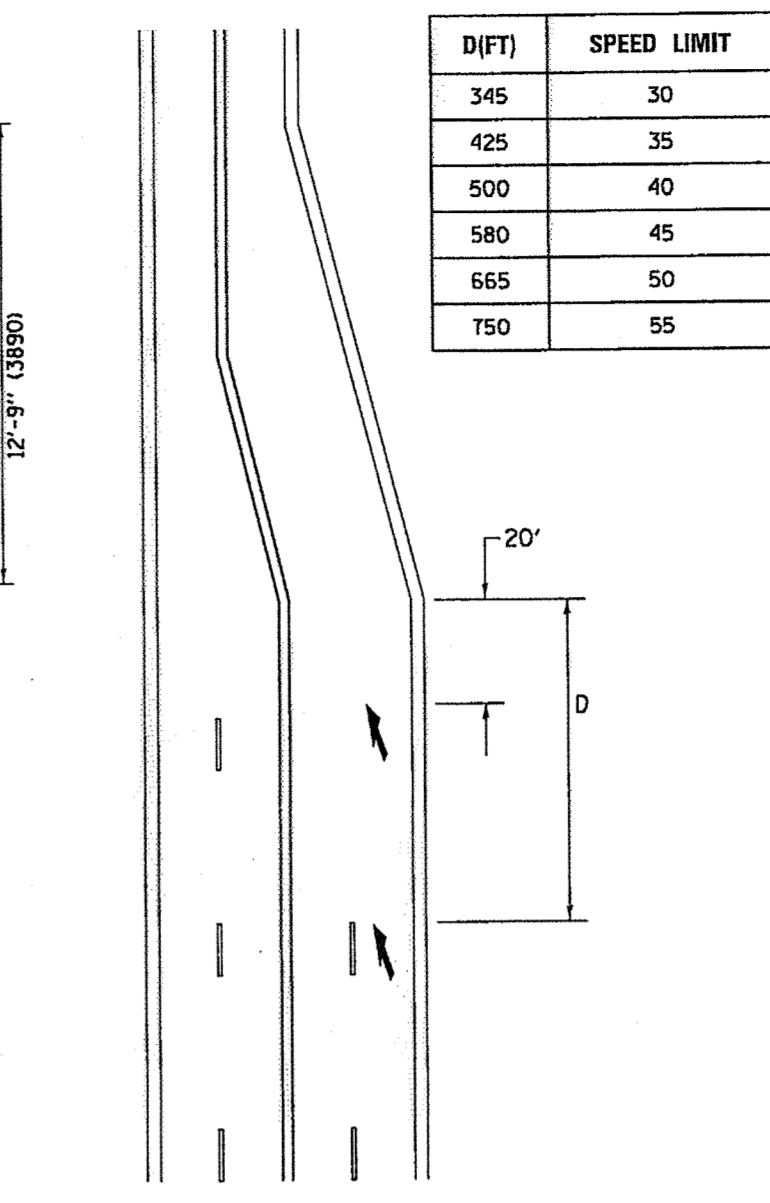
ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN



LANE REDUCTION TRANSITION
* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8" (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE. SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL))	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE. SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" 15 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "X"=3.5 SO. FT. (1.033 m ²) EACH "X"=54.0 SO. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

Symbol	Large Size sq ft (sq m)	Small Size sq ft (sq m)
Through Arrow	11.5 (1.07)	6.5 (0.60)
Left or Right Arrow	15.6 (1.47)	8.8 (0.82)
2 Arrow Combination Left (or Right) and	26.0 (2.42)	14.7 (1.37)
3 Arrow Combination Left, Right, and Through	38.4 (3.56)	20.9 (1.94)
Lane Drop Arrow	41.5 (3.86)	--
Wrong Way Arrow	24.3 (2.26)	--
Railroad "R" 6 ft (1.8 m)	3.6 (0.33)	--
Railroad "X" 20 ft (6.1 m)	54.0 (5.02)	--
International Symbol of Accessibility	3.1 (0.29)	--
Bike Symbol	4.7 (0.44)	--
Shared Lane Symbol	8.0 (0.74)	--

FILE NAME CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET) SHARED-USE PATHWAY	USER NAME = A. Q+00 PLOT SCALE = PLOT DATE =	DESIGNED - THK DRAWN - JFP CHECKED - THK DATE - 8/18	REVISED - REVISED - REVISED - REVISED -
--	---	---	--

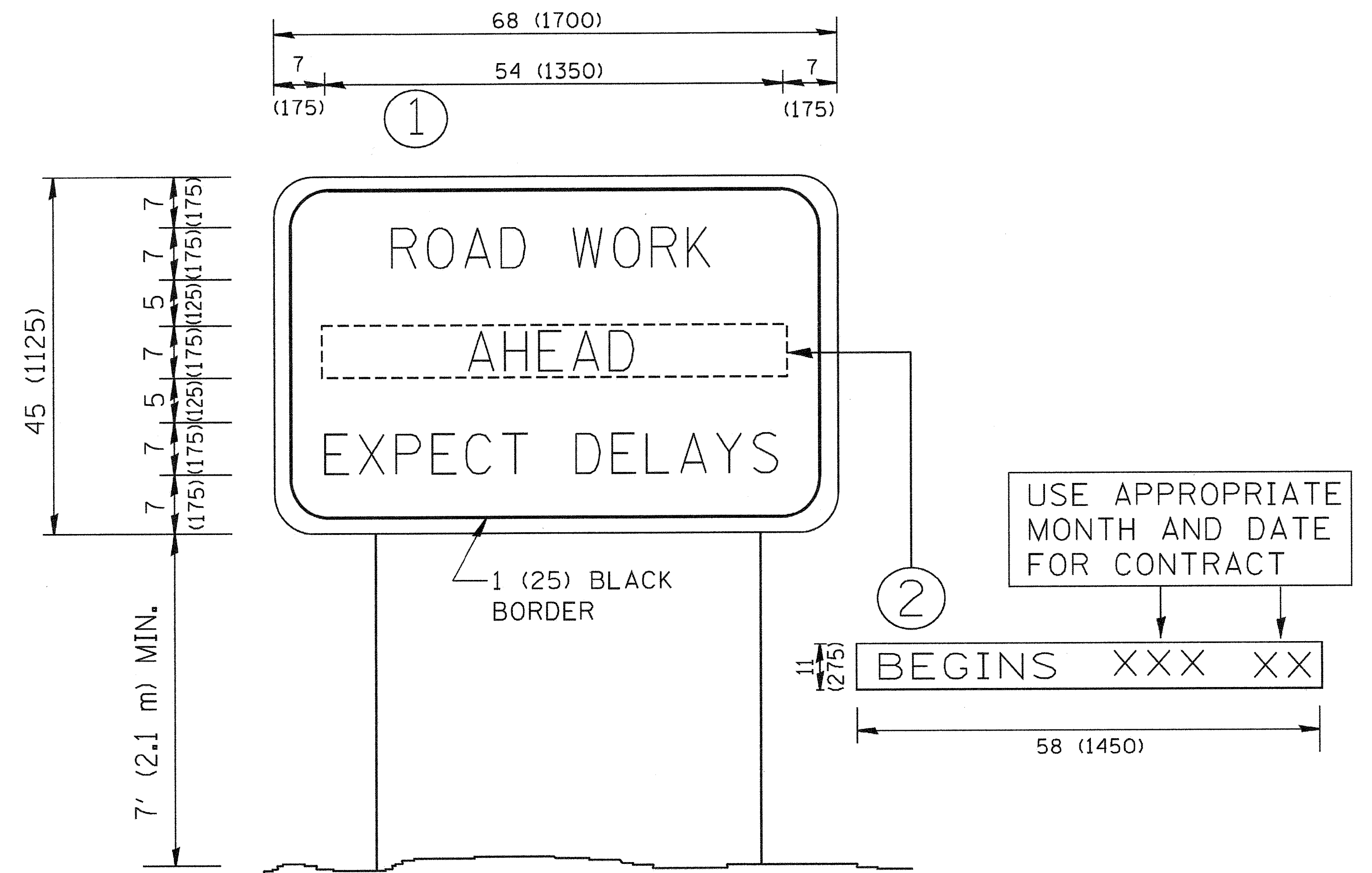
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: NONE SHEET NO. OF SHEETS STA. TO STA.

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-009728

F.A.U. RTE. 2704	SECTION 14-00041-00-BT	COUNTY COOK	TOTAL SHEETS 47	SHEET NO. 38
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F60	

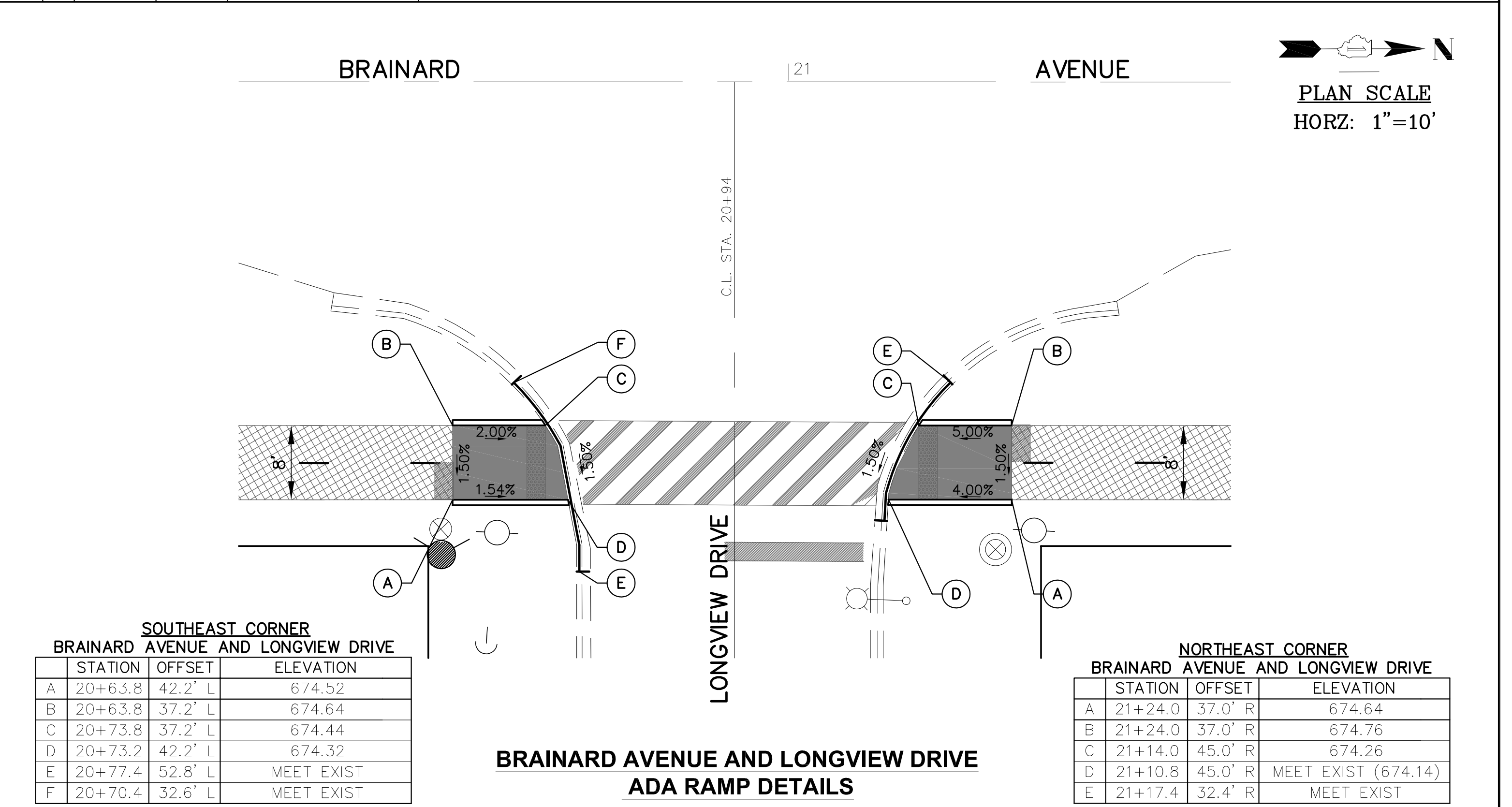
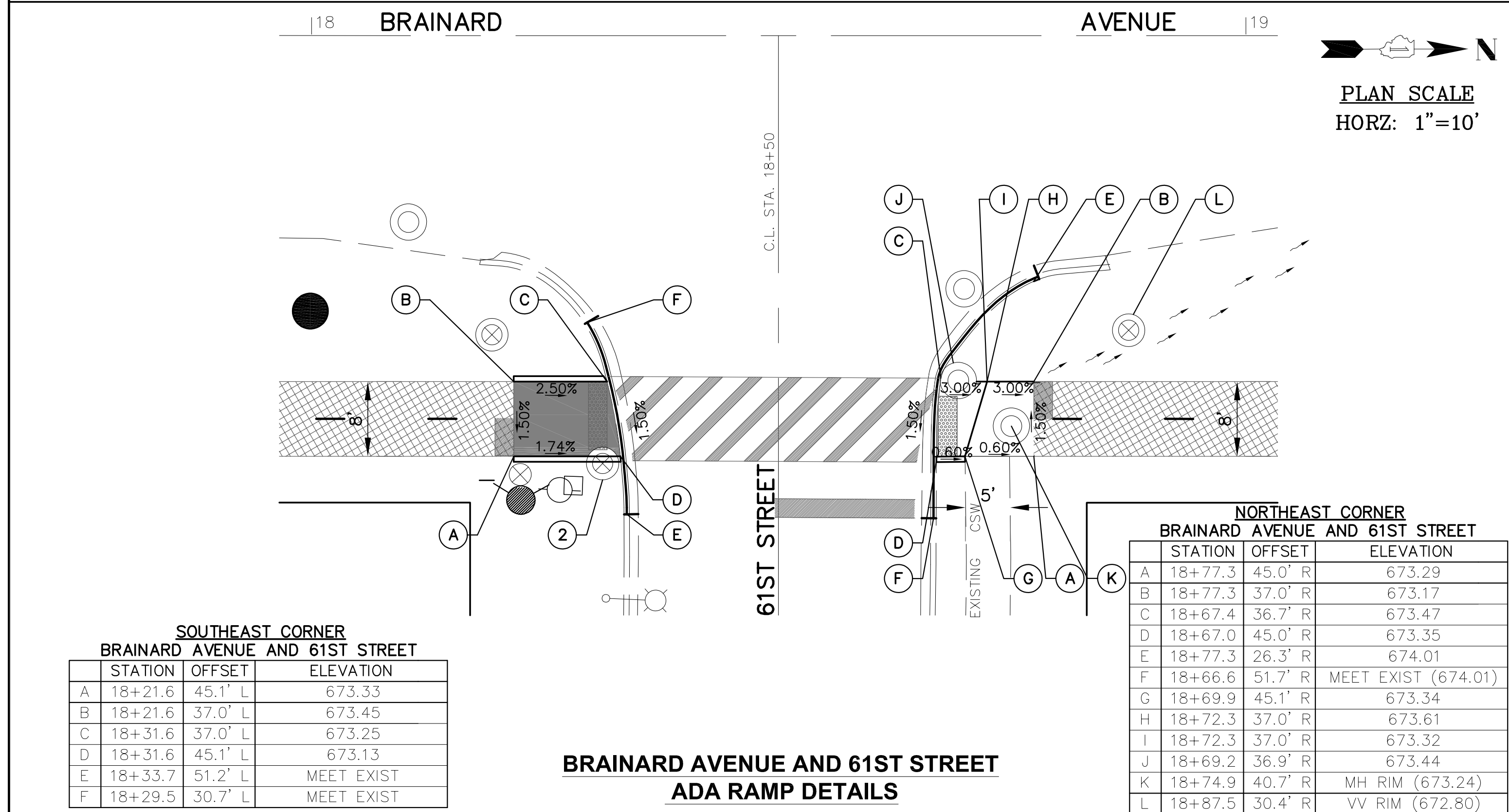
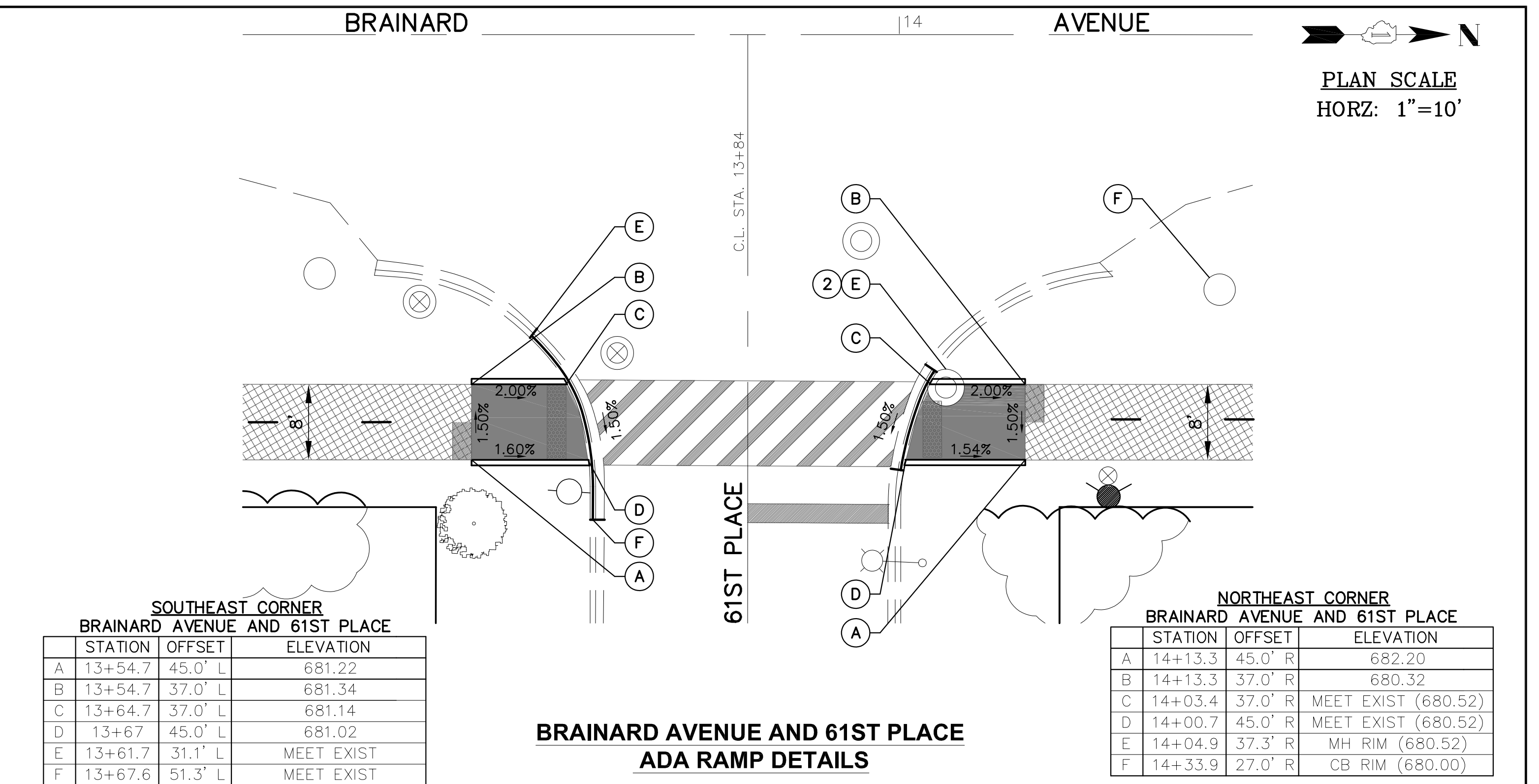
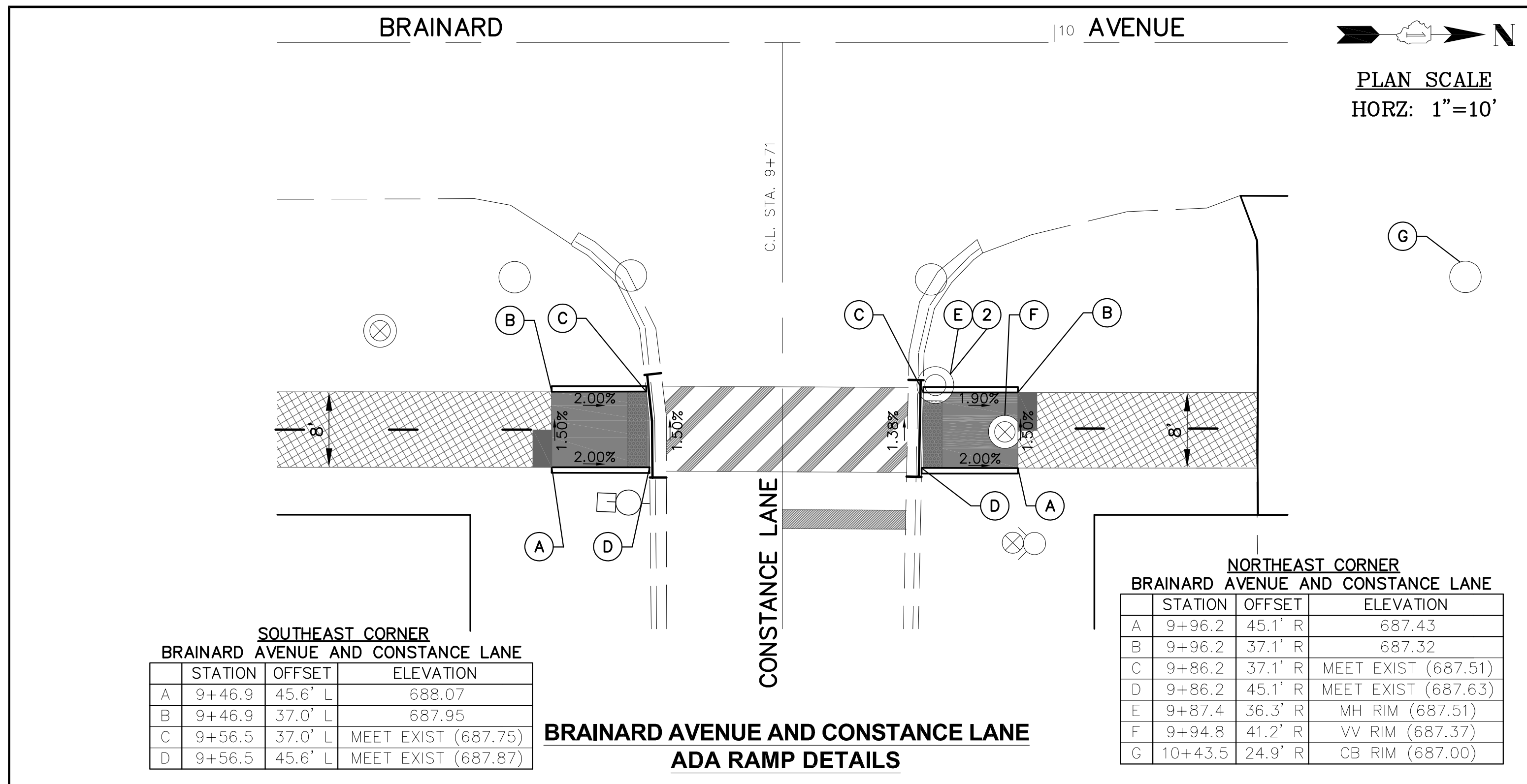


NOTES:

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.

FILE NAME = W:\diststd\22x34\tc22.dgn	USER NAME = gaglienobt	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50,000' / IN.	DRAWN -	REVISED - R. MIRS 12-11-97		2704	14-00041-00-BT	COOK	47	39		
PLOT DATE = 1/4/2008	DATE -	CHECKED -	REVISED - T. RAMMACHER 02-02-99		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-22 CONTRACT NO. 61F60 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
			REVISED - C. JUCIUS 01-31-07								



LEGEND

- PROPOSED SIDE CURB
- PROPOSED SIDEWALK
- PROPOSED DETECTABLE WARNINGS
- EXISTING LENGTH/ELEVATION
- PROPOSED TURNING SPACE
- PROPOSED SHARED-USE PATHWAY
- (%) SLOPE

IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.



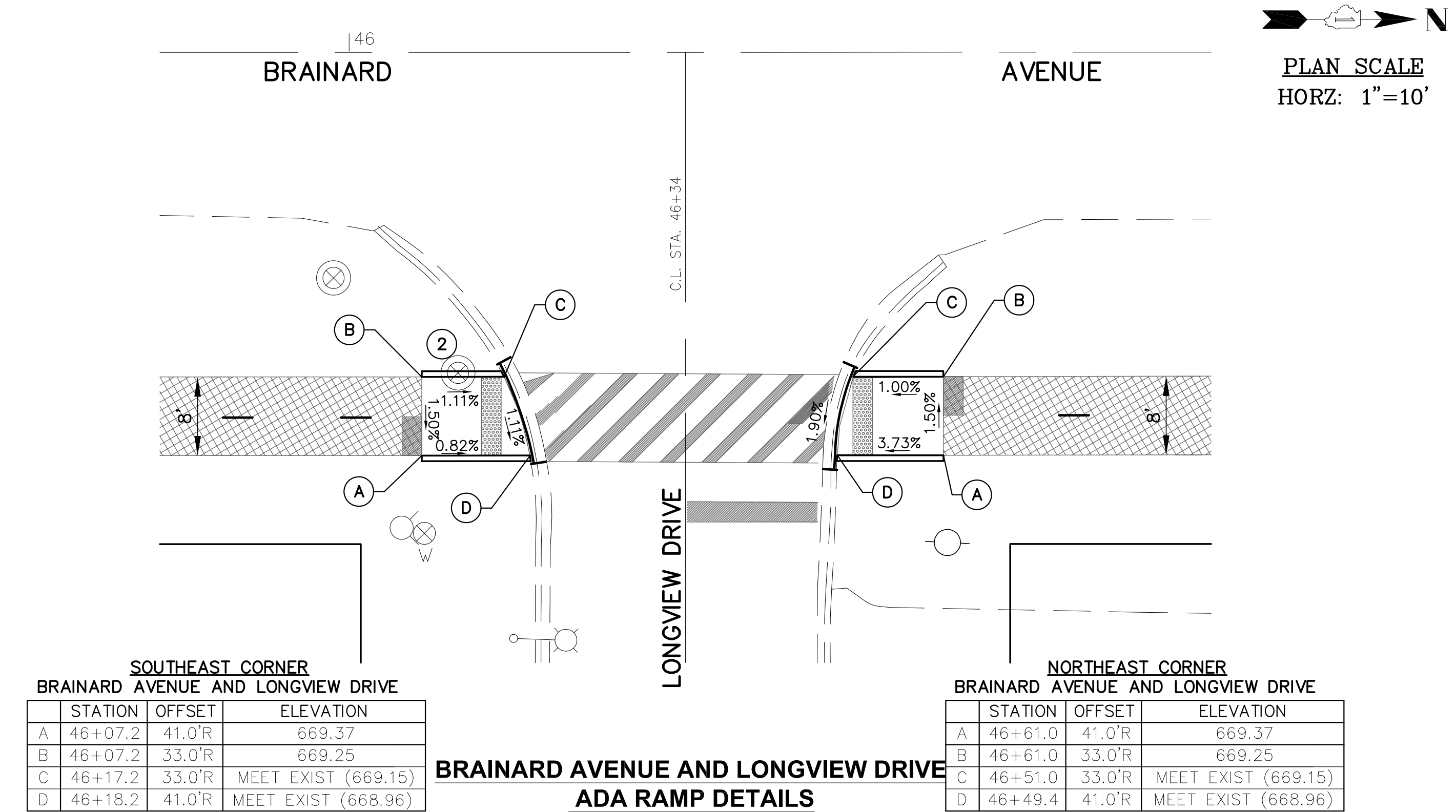
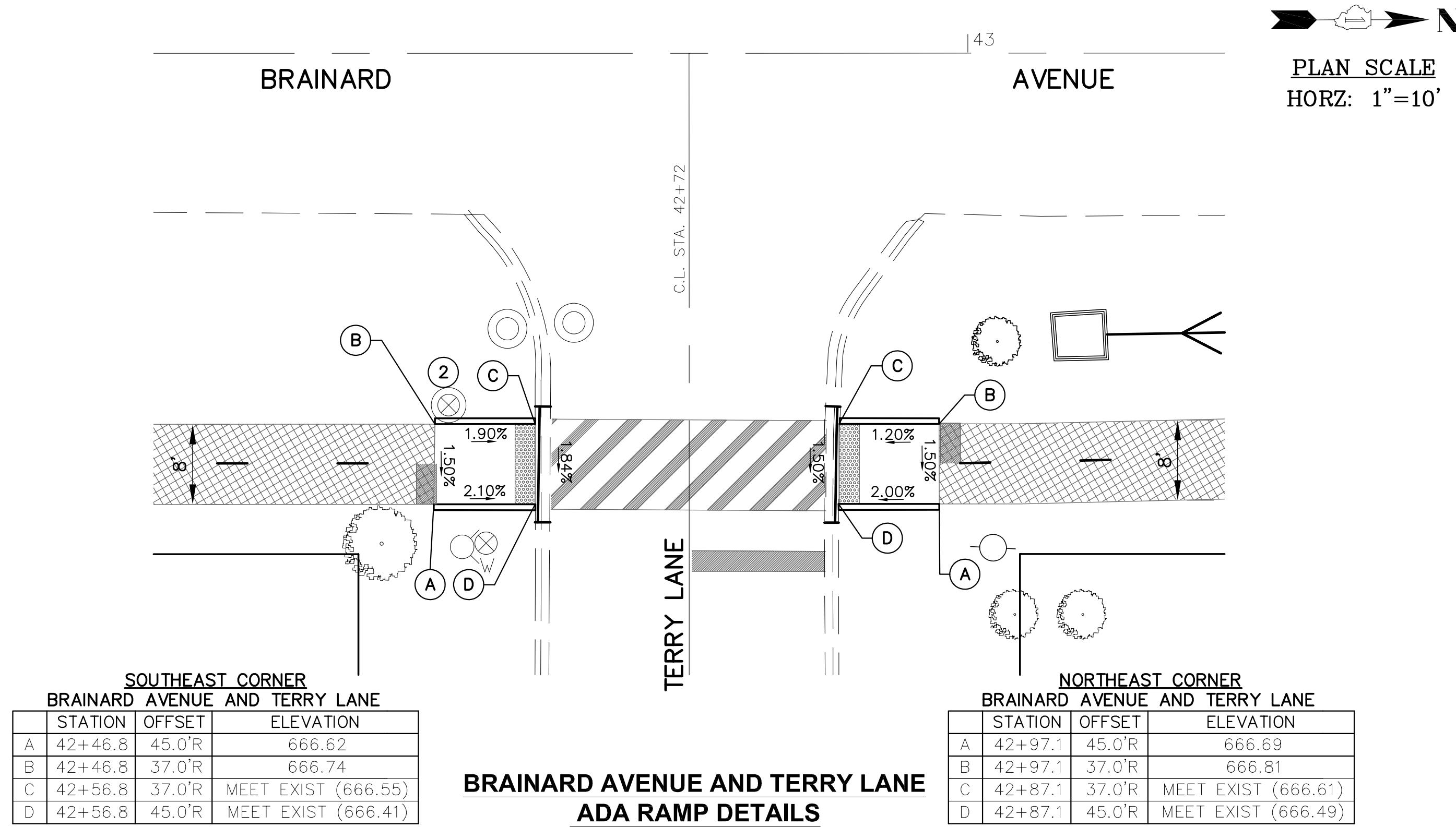
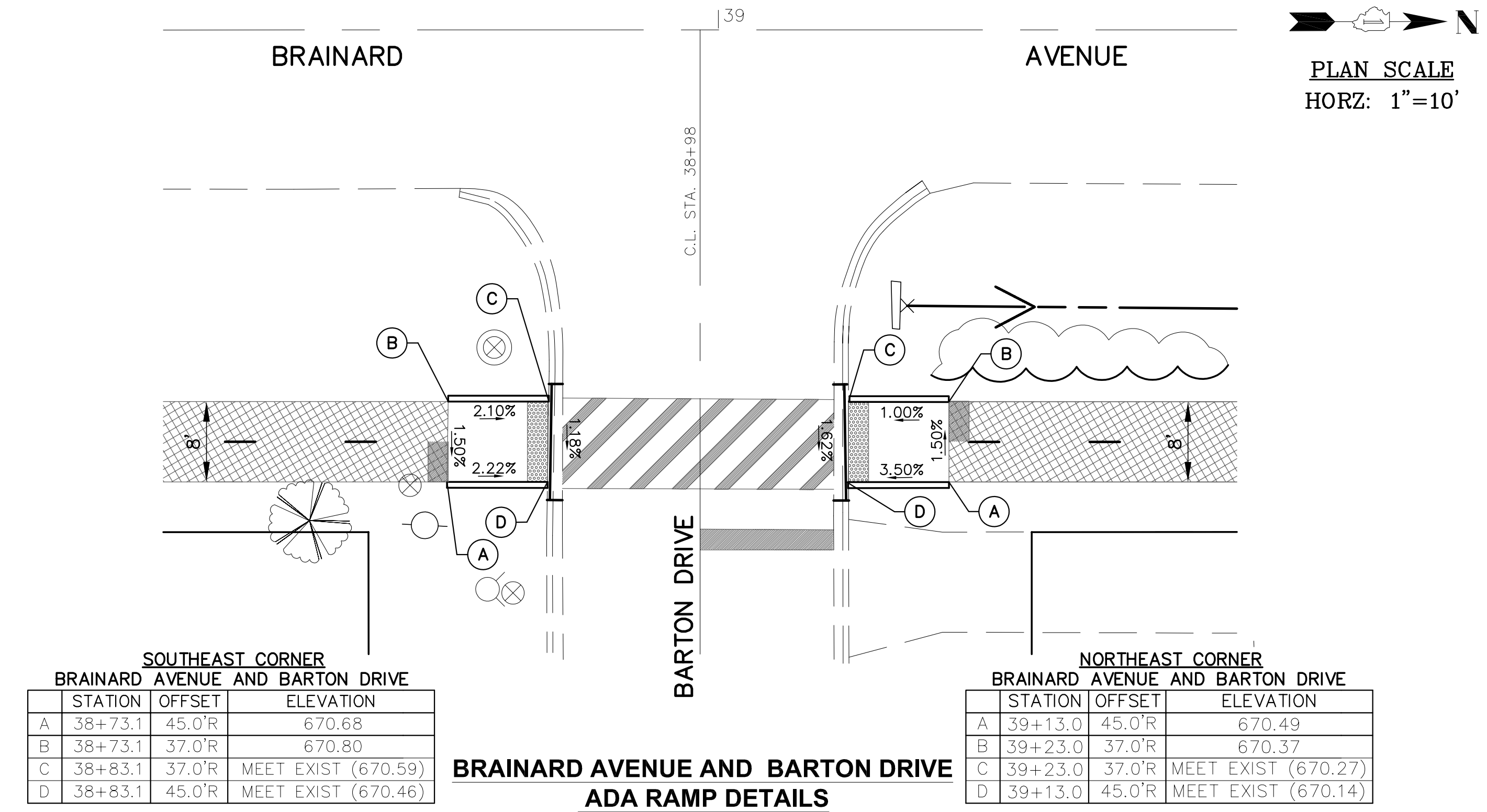
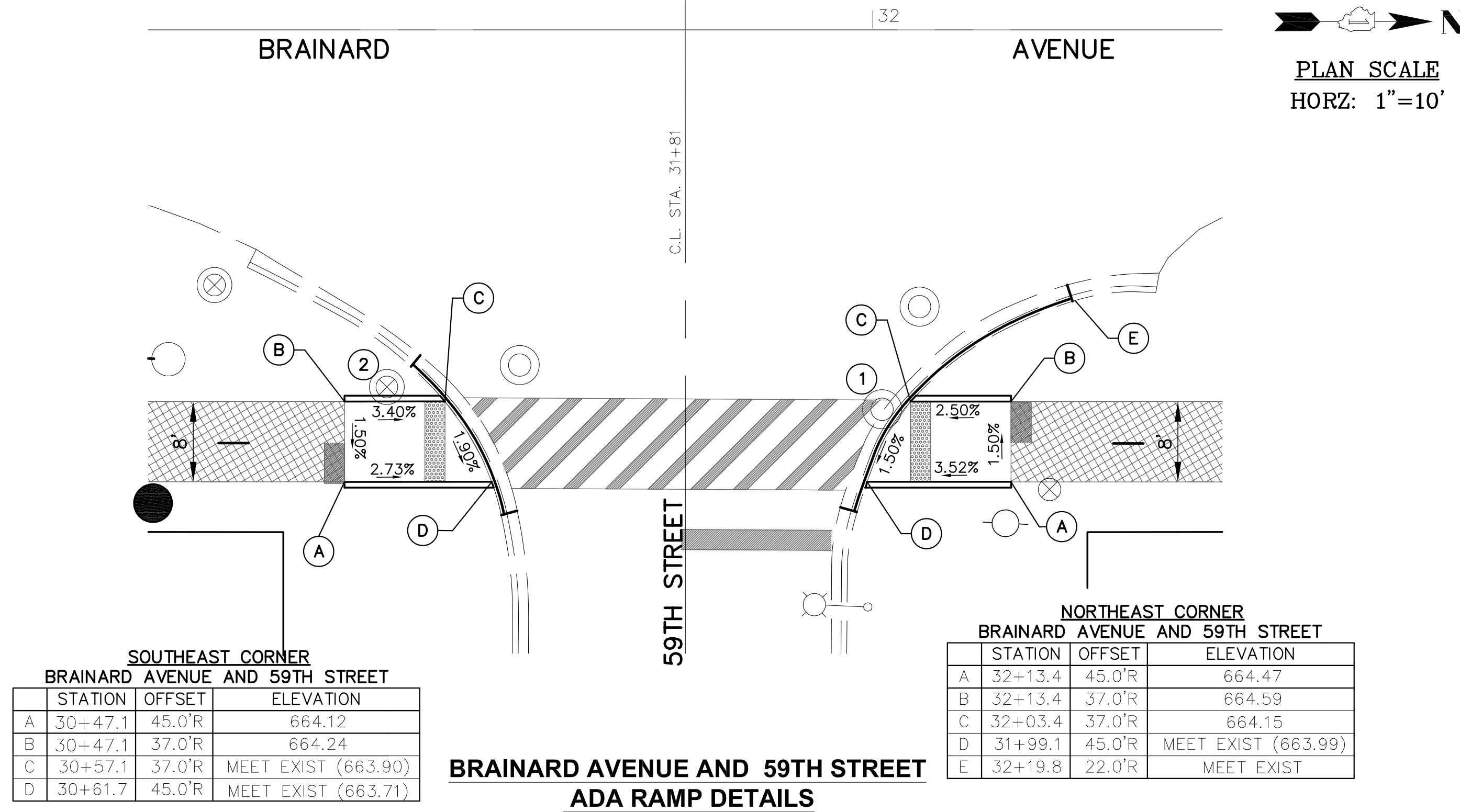
FILE NAME CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET) SHARED-USE PATHWAY	USER NAME =	DESIGNED -- THK	REVISED -- 1-30-19 COOK COUNTY
#13250	PLOT SCALE =	DRAWN -- JFP	
	PLOT DATE =	CHECKED -- THK	
		DATE -- 8/18	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN: BRAINARD AVENUE - (SHARED-USE PATHWAY) ADA RAMP DETAILS	SCALE: AS NOTED	SHEET NO. OF SHEETS	STA. TO STA.
--	-----------------	---------------------	--------------

NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-000928

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	47	40
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F60	



② MANHOLE TO BE ADJUSTED – END CURB AT MANHOLE. IF FIELD CONDITIONS ALLOW THE FINISHED LOCATION OF THE FRAME AND LID TO BE OUT OF THE SIDEWALK, EXTEND CURB TO END OF PCC LANDING.

① MANHOLE FRAME TO BE ADJUSTED INTO THE CURB FLOWLINE – GRADE TO MATCH EXISTING PAVEMENT AND NEW CURB FLOWLINE

LEGEND

- PROPOSED SIDE CURB
- ▨ PROPOSED SIDEWALK
- ▨ PROPOSED DETECTABLE WARNINGS
- (xx.xx') EXISTING LENGTH/ELEVATION
- ▨ PROPOSED TURNING SPACE
- ▨ PROPOSED SHARED-USE PATHWAY
- (%) SLOPE

IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.



NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-000928

FILE NAME CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAP 1504 (59TH STREET) SHARED-USE PATHWAY	USER NAME =	DESIGNED — THK	REVISED — 1-30-19 COOK COUNTY
#13250	PLOT SCALE =	DRAWN — JFP	
	PLOT DATE =	CHECKED — THK	
		DATE — 8/18	

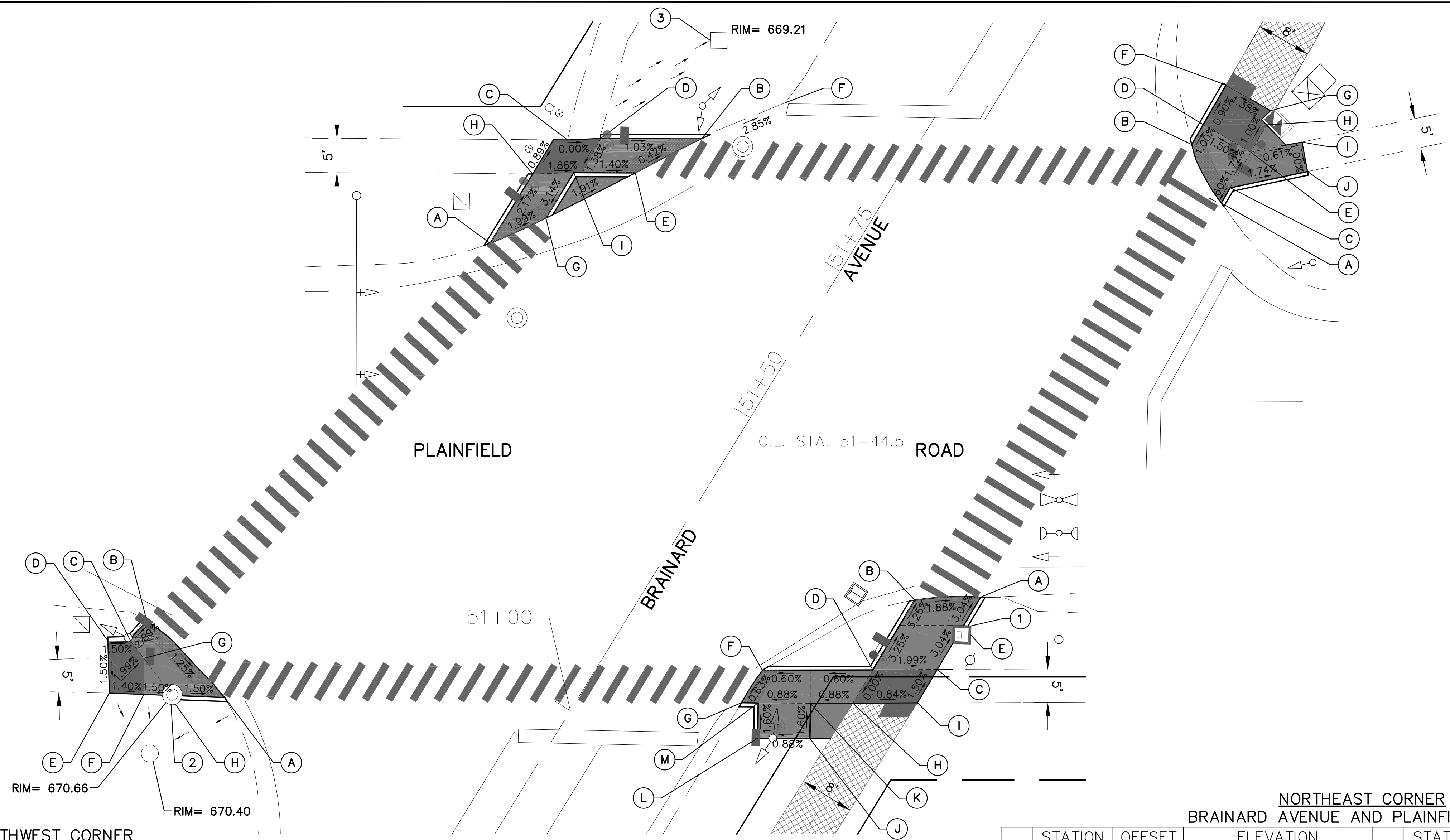
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN:
BRAINARD AVENUE - (SHARED-USE PATHWAY)
ADA RAMP DETAILS**

SCALE: AS NOTED | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RTE. 2704	SECTION 14-00041-00-BT	COUNTY COOK	TOTAL SHEETS 47	SHEET NO. 41
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 61F60	

PLAN SCALE
HORZ: 1"=10'



**NORTHWEST CORNER
BRAINARD AVENUE AND PLAINFIELD ROAD**

STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION		
A	51+51.9	45.5' L	MEET EXIST (669.85)	F	51+91.7	19.6' L	EXIST GRADE (669.02)
B	51+80.9	27.3' L	MEET EXIST (669.34)	G	51+59.2	40.5' L	669.61
C	51+73.3	39.8' L	MEET EXIST (669.54)	H	51+63.7	45.5' L	MEET EXIST (669.59)
D	51+70.6	43.8' L	MEET EXIST (669.54)	I	51+66.9	40.5' L	669.45 (SW)
E	51+71.6	32.9' L	MEET EXIST (669.39)	I	51+66.9	40.5' L	669.78 (TC)

**SOUTHWEST CORNER
BRAINARD AVENUE AND PLAINFIELD ROAD**

STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION		
A	50+75.3	43.9' L	MEET EXIST (670.59)	F	50+69.6	54.1' L	670.76
B	50+79.0	59.3' L	MEET EXIST (670.79)	G	50+74.1	56.9' L	670.69
C	50+75.2	59.8' L	670.90	H	50+70.7	49.5' L	MH ADJ RIM = 670.70
D	50+73.5	62.6' L	670.95				
E	50+67.1	58.5' L	670.83				

GENERAL NOTES

- HANDHOLE TO BE ADJUSTED – END CURB AT NORTH EDGE OF HANDHOLE. HANDHOLE TO BE ADJUSTED OUT OF PATHWAY AREA IF FIELD CONDITIONS ALLOW.
- MANHOLE TO BE ADJUSTED – END CURB AT MANHOLE. IF FIELD CONDITIONS ALLOW THE FINISHED LOCATION OF THE FRAME AND LID TO BE OUT OF THE SIDEWALK, EXTEND CURB TO JUST BEFORE THE KEYSTONE SQUARE.
- EXISTING INLET RIM IS 669.20

**NORTHEAST CORNER
BRAINARD AVENUE AND PLAINFIELD ROAD**

STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION		
A	52+12.6	42.0' R	668.61	F	52+27.5	33.6' R	668.40
B	52+17.5	34.0' R	668.49	G	52+27.5	41.1' R	668.51
C	52+15.1	42.0' R	668.65	H	52+25.7	41.7' R	668.51
D	52+20.9	33.8' R	668.46	I	52+26.2	45.0' R	MEET EXIST (668.50)
E	52+20.9	41.8' R	668.55	J	52+22.9	50.3' R	MEET EXIST (668.45)

**SOUTHEAST CORNER
BRAINARD AVENUE AND PLAINFIELD ROAD**

STATION	OFFSET	ELEVATION	STATION	OFFSET	ELEVATION		
A	51+45.3	42.2' R	MEET EXIST (669.69)	H	51+22.4	34.4' R	670.23
B	51+39.9	34.3' R	MEET EXIST (669.84)	I	51+27.4	42.4' R	670.15
C	51+33.1	42.3' R	670.07	J	51+14.8	31.8' R	670.26
D	51+28.1	34.4' R	670.23	K	51+19.2	29.2' R	670.18
E	51+12.9	51.5' R	669.91 (HANDHOLE)	L	51+10.9	25.3' R	670.20
F	51+19.6	20.7' R	MEET EXIST (670.14)	M	51+15.4	22.9' R	670.12
G	51+14.0	20.6' R	MEET EXIST (670.09)				

LEGEND

IMPORTANT!
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.



NOVOTNY ENGINEERING
545 Plainfield Road, Suite A
Willowbrook, IL 60527
T: (630) 887.8640
F: (630) 887.0132
Illinois Professional Design Firm No. 184-000928

FILE NAME CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAP 1504 (65TH STREET) SHARED-USE PATHWAY	USER NAME =	DESIGNED -- THK	REVISED -- 1-30-19 COOK COUNTY
#13250	PLOT SCALE =	DRAWN -- JFP	
	PLOT DATE =	CHECKED -- THK	
		DATE -- 8/18	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PLAN:
BRAINARD AVENUE - (SHARED-USE PATHWAY)
ADA RAMP DETAILS**

SCALE: AS NOTED | SHEET NO. OF SHEETS | STA. TO STA.

F.A.U. RITE 2704	SECTION 14-00041-00-BT	COUNTY COOK	TOTAL SHEETS 47	SHEET NO. 42
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

IMPORTANT!
 FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZE PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

FILENAME: CITY OF COUNTRYSIDE
 FAU 2704 (BRAINARD AVENUE)
 FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET)
 #13250 SHARED-USE PATHWAY

USER NAME =
 PLOT SCALE = H: 1"=10'; V: 1"=10'
 PLOT DATE =

DESIGNED - THK
 DRAWN - JFP
 CHECKED - JEF
 DATE - 10/18

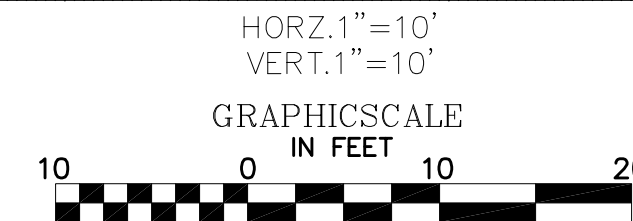
REVISED - 11-26-18
 REVISED - 12-17-18
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

BRAINARD AVENUE

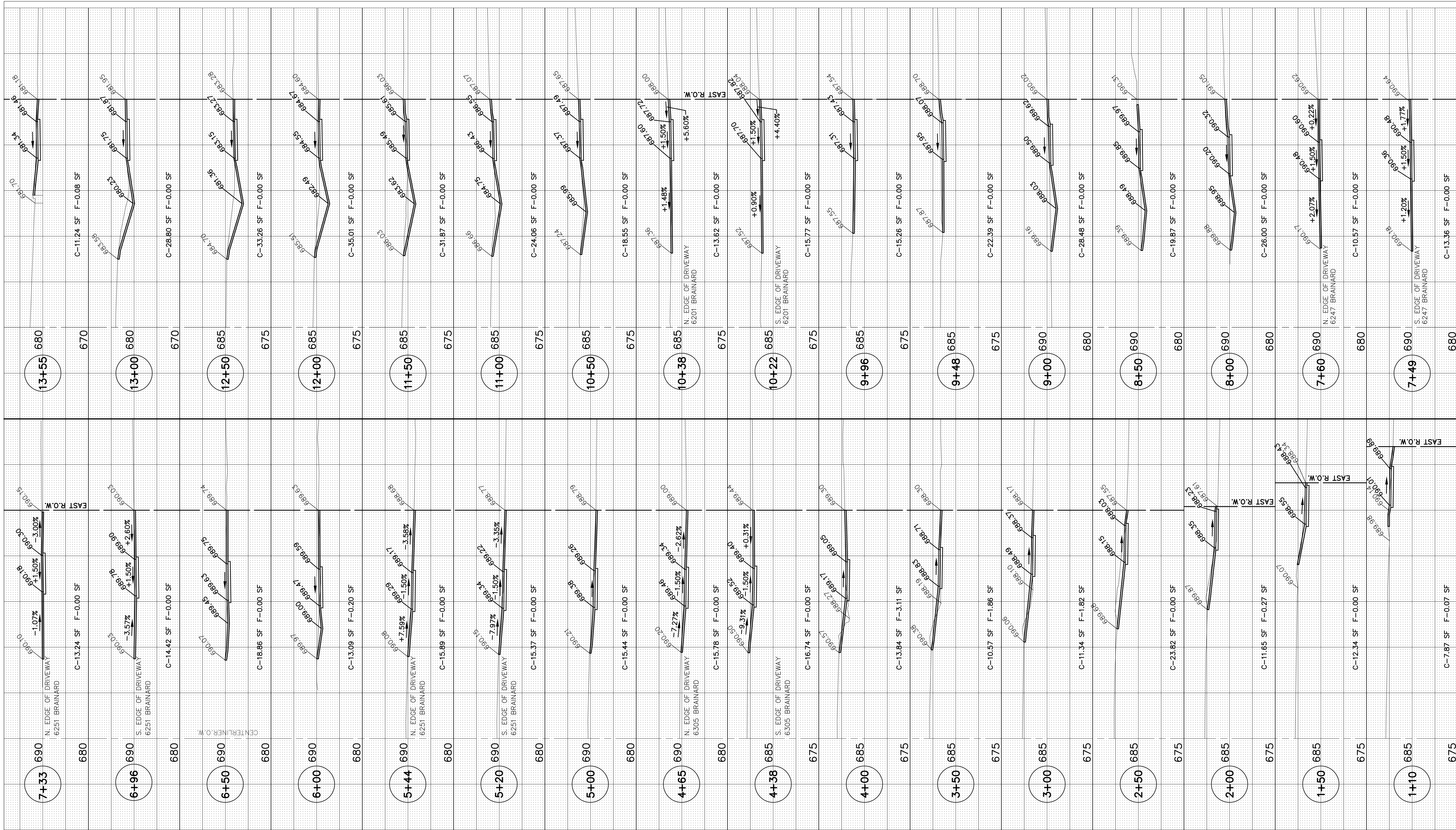
CROSS SECTIONS

SCALE: 1"=10' SHEET NO. OF SHEETS STA. TO STA.



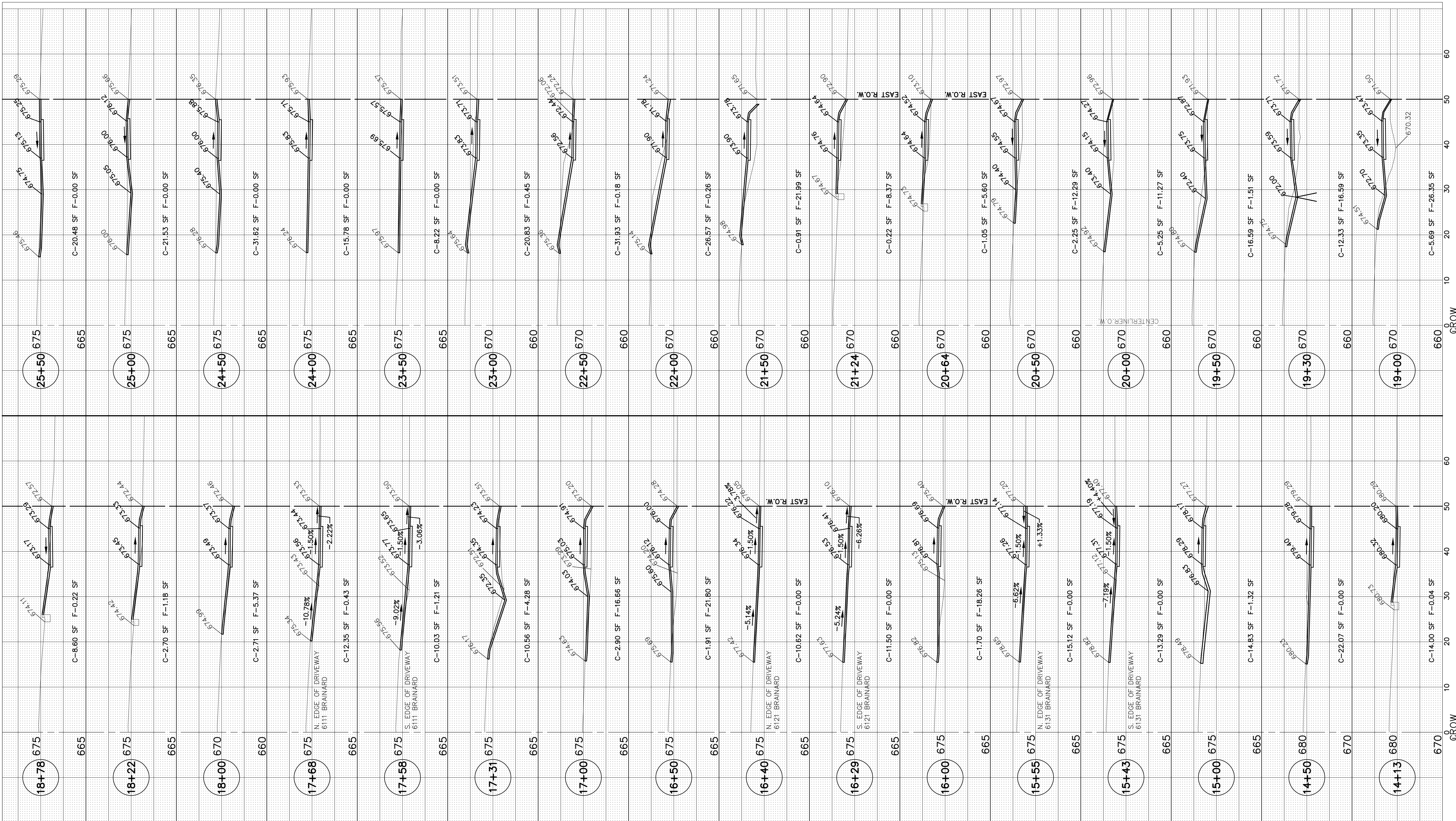
NOVOTNY ENGINEERING
 545 Plainfield Road, Suite A
 Wilton Brook, IL 60527
 T: (630) 887.8640
 F: (630) 887.0132
 Illinois Professional Design Firm No. 184-000928

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2704	14-00041-00-BT	COOK	43	47
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 61F60



CROW 10 20 30 40 50 60

CROW 10 20 30 40 50 60



IMPORTANT!
 FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZE PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

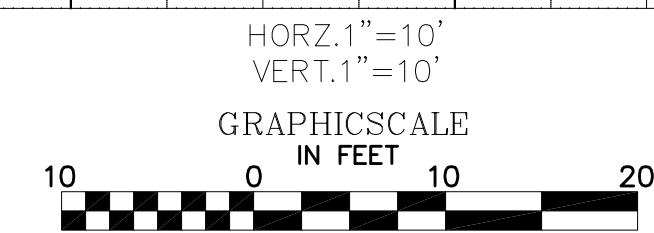
FOR TYPICAL CROSS SECTION OF NEW PAVEMENT WORK SEE SHEET 4

BRAINARD AVENUE

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

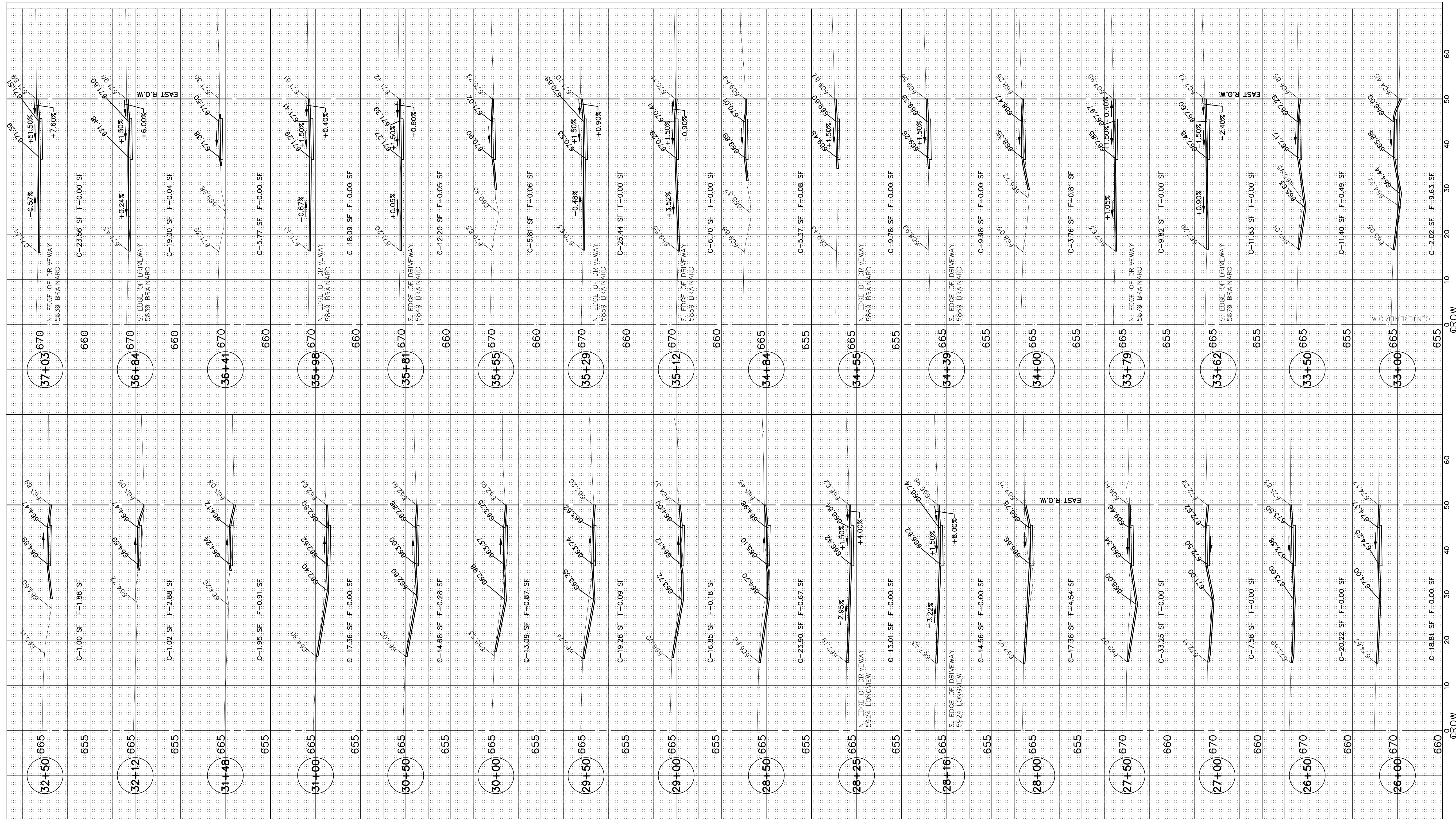
CROSS SECTIONS

SCALE: 1"=10' SHEET NO. OF SHEETS STA. TO STA.



FILENAME CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAU 1504 (55TH STREET) #13250 SHARED-USE PATHWAY	USER NAME =	DESIGNED -- THK DRAWN -- JFP CHECKED -- JEF DATE -- 10/18	REVISED -- 11-26-18 REVISED -- 12-17-18 REVISED -- REVISED --
--	-------------	--	--

<p>NOVOTNY ENGINEERING <small>Illinois Professional Design Firm No. 184-000928</small></p>	545 Plainfield Road, Suite A Wiltowbrook, IL 60527		T: (630) 887.8640	TOTAL SHEETS 44	SHEET NO. 47
	F.A.U. RTE. 2704		SECTION 14-00041-00-BT		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 61F60	



IMPORTANT!
 FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZE PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

FILENAME: CITY OF COUNTRYSIDE
 FAU 2704 (BRAINARD AVENUE)
 FAU 3562 (JULIET ROAD) TO FAP 1504 (55TH STREET)
 #13250 SHARED-USE PATHWAY

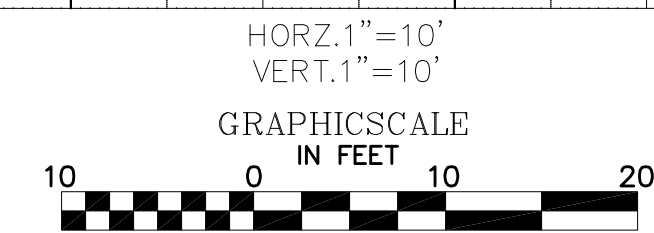
USER NAME =
 PLOT SCALE = H: 1"=10'; V: 1"=10'
 PLOT DATE =

DESIGNED - THK
 DRAWN - JFP
 CHECKED - JEF
 DATE - 10/18

REVISED - 11-26-18
 REVISED - 12-17-18
 REVISED -
 REVISED -

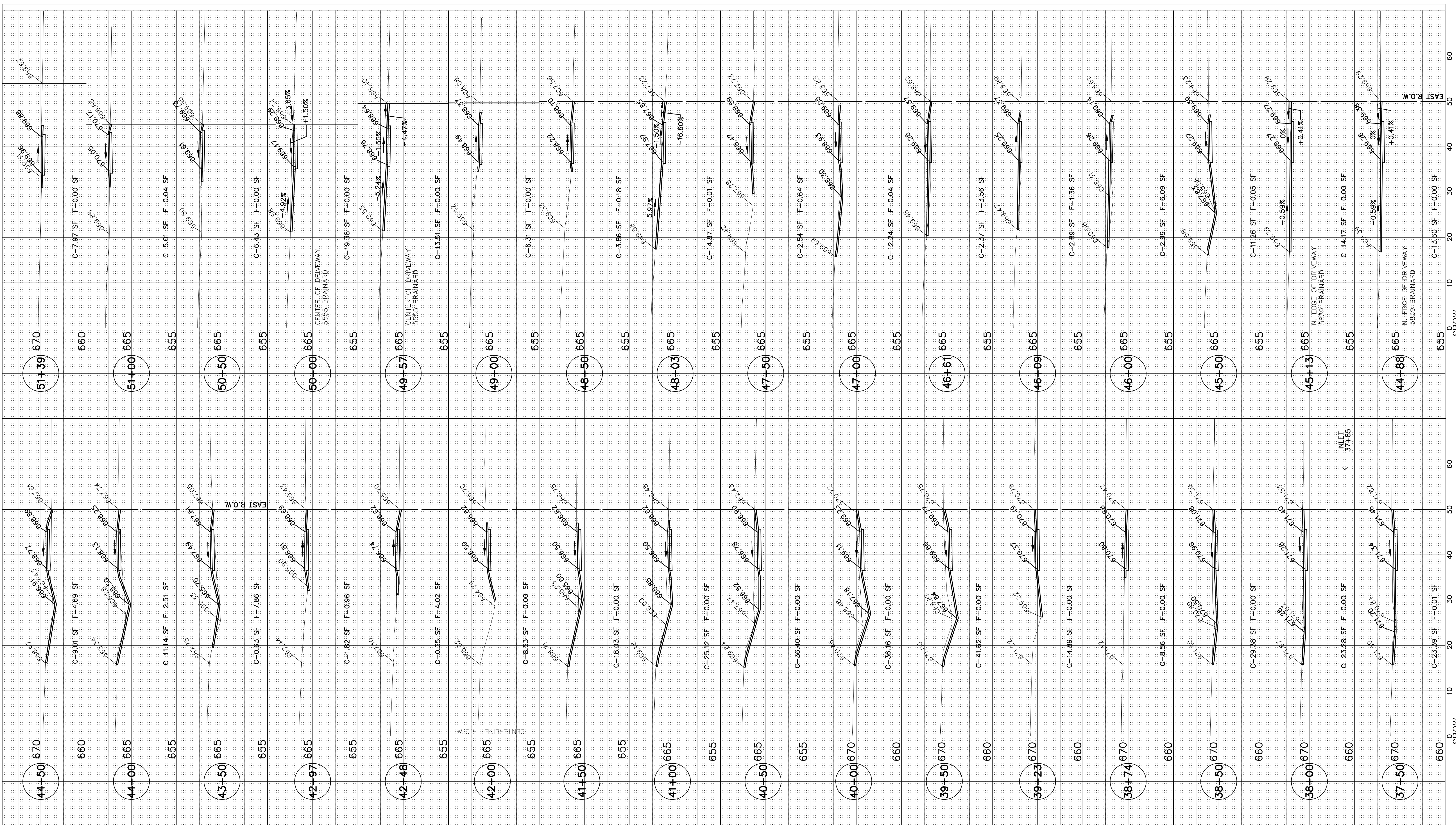
BRAINARD AVENUE
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 SCALE: 1"=10' SHEET NO. OF SHEETS STA. TO STA.



NOVOTNY ENGINEERING
 545 Plainfield Road, Suite A
 Wilton Brook, IL 60527
 T: (630) 887.8640
 F: (630) 887.0132
 Illinois Professional Design Firm No. 184-000928

F.A.U. RTE. 2704	SECTION 14-00041-00-BT	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 47
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 61F60		



IMPORTANT!
 FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZE PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

FILE NAME: CITY OF COUNTRYSIDE
 FAU 2704 (BRAINARD AVENUE)
 FAU 3562 (JULIET ROAD) TO FAU 1504 (55TH STREET)
 #13250 SHARED-USE PATHWAY

USER NAME =
 PLOT SCALE = H: 1"=10'; V: 1"=10'
 PLOT DATE =

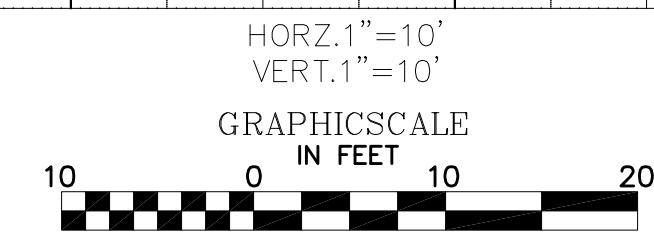
DESIGNED - THK
 DRAWN - JFP
 CHECKED - JEF
 DATE - 10/18

REVISED - 11-26-18
 REVISED - 12-17-18
 REVISED -
 REVISED -

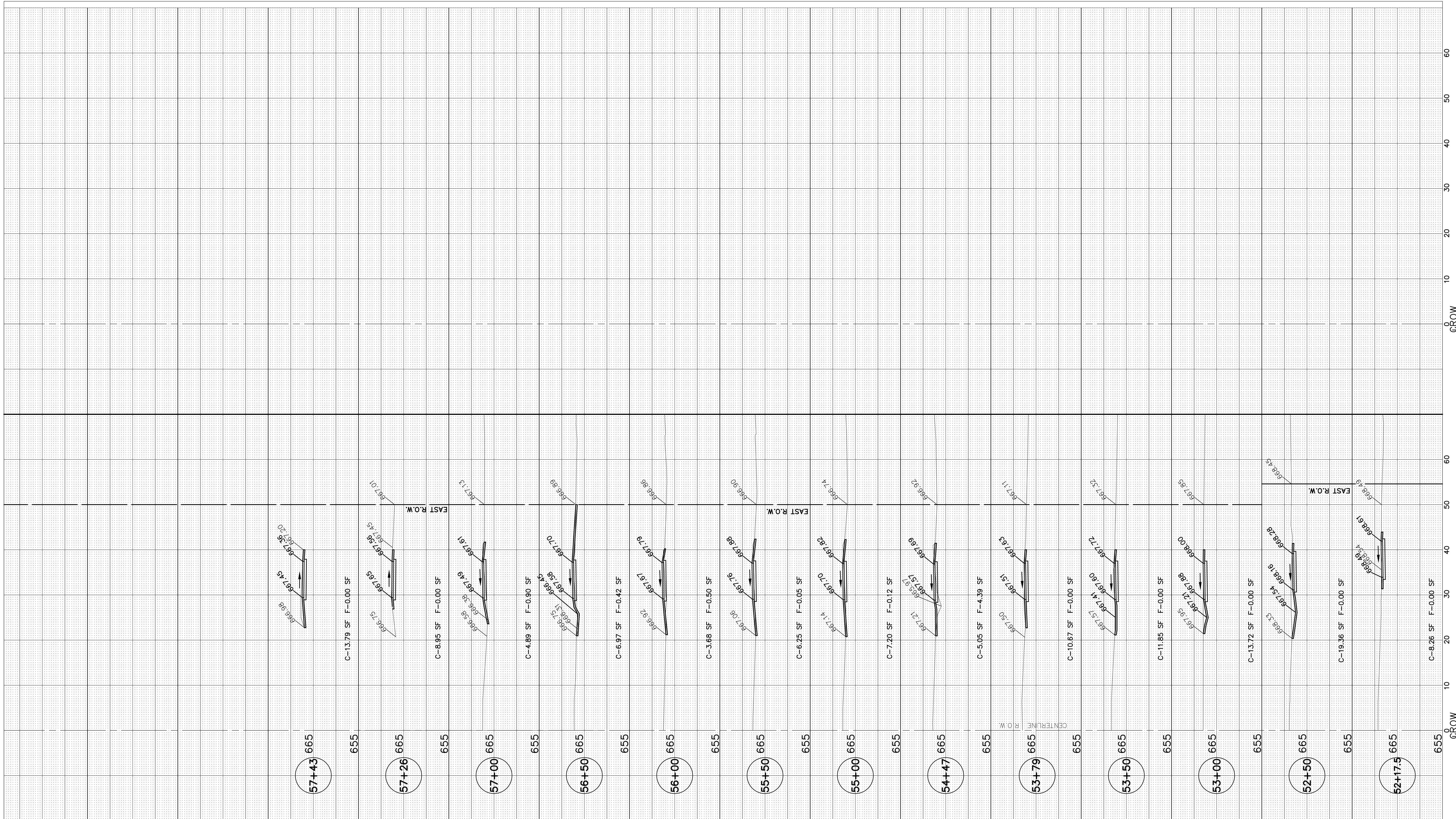
BRAINARD AVENUE
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

SCALE: 1"=10' SHEET NO. OF SHEETS STA. TO STA.

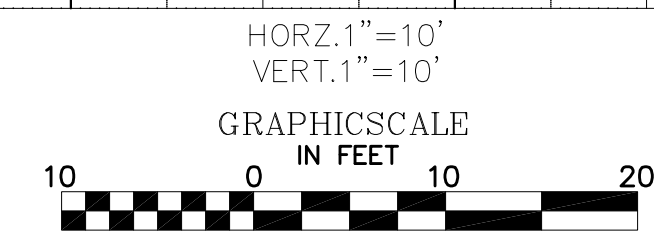


NOVOTNY ENGINEERING		545 Plainfield Road, Suite A Wiltbrook, IL 60527 T: (630) 887.8640 F: (630) 887.0132 Illinois Professional Design Firm No. 184-000928	
F.A.U. RTE. 2704	SECTION 14-00041-00-BT	COUNTY COOK	TOTAL SHEETS 46
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	SHEET NO. 47
		CONTRACT NO. 61F60	



BRAINARD AVENUE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



NOVOTNY ENGINEERING
 545 Plainfield Road, Suite A
 Wilton Brook, IL 60527
 T: (630) 887,8640
 F: (630) 887,0132
Illinois Professional Design Firm No. 184-000928

IMPORTANT!
 FULL SIZE PLANS HAVE BEEN
 PREPARED USING STANDARD
 ENGINEERING SCALES. REDUCED
 SIZED PLANS WILL NOT CONFORM
 TO STANDARD SCALES INDICATED
 IN TITLE BLOCK.

FILENAME: CITY OF COUNTRYSIDE FAU 2704 (BRAINARD AVENUE) FAU 3562 (JOLIET ROAD) TO FAP 1504 (55TH STREET) #13250 SHARED-USE PATHWAY	USER NAME = PLOT SCALE = H: 1"=10'; V: 1"=10' PLOT DATE =	DESIGNED -- THK DRAWN -- JFP CHECKED -- JEF DATE -- 10/18	REVISED -- 11-26-18 REVISED -- 12-17-18 REVISED -- REVISED --	CROSS SECTIONS SCALE: 1"=10' SHEET NO. OF SHEETS STA. TO STA.	<table border="1"> <tr> <td>F.A.U. RTE.</td> <td>SECTION</td> <td>COUNTY</td> <td>TOTAL SHEETS</td> <td>SHEET NO.</td> </tr> <tr> <td>2704</td> <td>14-00041-00-BT</td> <td>COOK</td> <td>47</td> <td>47</td> </tr> <tr> <td colspan="3">FED. ROAD DIST. NO.</td> <td colspan="2">ILLINOIS FED. AID PROJECT</td> </tr> <tr> <td colspan="3"></td> <td colspan="2">CONTRACT NO. 61F60</td> </tr> </table>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	2704	14-00041-00-BT	COOK	47	47	FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT					CONTRACT NO. 61F60	
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																					
2704	14-00041-00-BT	COOK	47	47																					
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT																						
			CONTRACT NO. 61F60																						