07-31-2020 LETTING ITEM 071

SEE SHEET NO. 2

DESIGN SPEED

CLASSIFICATION MAJOR COLLECTOR

TRAFFIC

FOR INDEX OF SHEETS AND STATE STANDARDS,

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

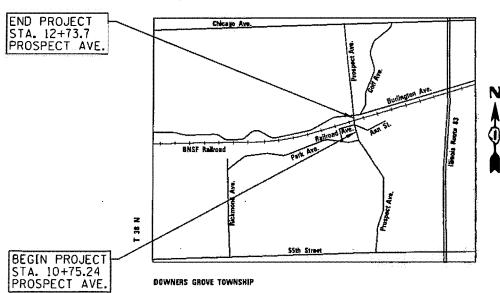
PLANS FOR PROPOSED

FEDERAL AID HIGHWAY

MUN 1003 (PROSPECT AVENUE) BURLINGTON AVENUE TO ANN STREET RECONSTRUCTION, SIDEWALKS, PAVEMENT MARKING, LANDSCAPING SECTION 16-00045-01-MS PROJECT NO. 6LRR(035) VILLAGE OF CLARENDON HILLS **DUPAGE COUNTY**

C-91-040-20

R 11 E 3rd PM



DAVID D. LANDEWEER LICENSED PROFESSIONAL ENGINEER ILLINOIS NO. 062-042363 EXPIRES 11-30-21

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION VILLAGE OF CLARENDON HILLS

GROSS AND NET LENGTH = 198.5 FEET (0.04 MILES)

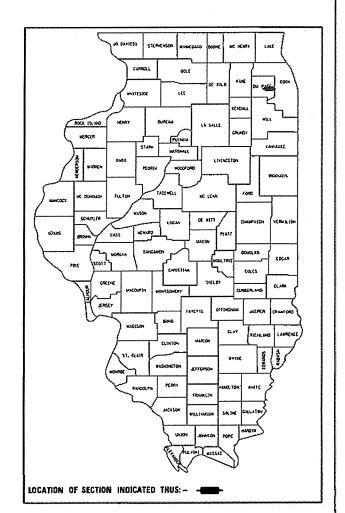
LOCATION MAP

TERRA

PLANS PREPARED BY:

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

CONTRACT NO. 61G62



16-00045-01-M5

DUPAGE 79 1 CONTRACT NO. 61662

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

10-11 TYPICAL SECTIONS SIGN SCHEDULE 13-14 ALIGNMENTS AND TIES REMOVALS PROPOSED PLAN AND PROFILES SITE PLAN MAINTENANCE OF TRAFFIC GENERAL NOTES & TYPICAL SECTION MAINTENANCE OF TRAFFIC PLANS EROSION CONTROL 20 DRAINAGE PLAN AND PROFILES 22-24 GRADING PLANS ADA RAMPS PAVEMENT MARKING, & SIGNING RAILROAD CROSSING IMPROVEMENT 30-31 MISCELLANEOUS DETAILS 32-73 ARCHITECTURAL BUILDING PLANS DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08) 75 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22) BUTT JOINT AND HMA TAPER DETAILS (BD-32) TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10) DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13) 78 SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)

INDEX OF SHEETS, STANDARDS & GENERAL NOTES

INDEX OF SHEETS

SUMMARY OF OUANTITIES

3-9

000001-07

729001-01

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
601001-05	PIPE UNDERDRAINS
602011-02	CATCH BASIN, TYPE C
604001-05	FRAME AND LIDS, TYPE 1
604036-03	GRATE TYPE 8
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5M) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600MM) 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, 2L, 2W, UNDIVIDED
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
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 AND DELINEATORS

APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

GENERAL NOTES

- SOIL EROSION AND SEDIMENTATION CONTROL PRACTICES AND DEVICES SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF IDOT STANDARD SPECIFICATIONS AND ALL REVISIONS THERETO AND IN ACCORDANCE WITH THE DETAILS ON THE PLANS.
- 2. THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER, DON CHIARUGI, AT DON.CHIARUGI@ILLINOIS.GOV A MINIMUM OF TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAYEMENT MARKINGS.
- 3. THE CONTRACTOR SHALL CONTACT J.U.L.I.E. (1-800-892-0123) 48 HOURS PRIOR TO ANY WORK IN THE RIGHT OF WAY OR EASEMENTS TO LOCATE UTILITIES, AND CONTACT THE OWNER'S REPRESENTATIVE SHOULD PUBLIC UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS.
- 4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- 5. THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.
- 6. ALL ELEVATIONS IN THE PLANS ARE BASED UPON THE NORTH AMERICAN VERTICAL DATUM OF
- 7. ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS, AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB & GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT SHALL BE EPOXY COATED UNLESS NOTED ON THE PLANS.
- 8. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½" INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS WITH WRITTEN APPROVAL FROM THE ENGINEER. A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 V:H.
- 9. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 10. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 11. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW OR WASTE/USE (BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) and USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR WILL NEED TO SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN SECTION II.G.1 AND 2 of the SWPPP.
- 12. AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH AGGREGATE SUBGRADE IMPROVEMENT (CU YD) WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC CONE AND/OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 (04/01/2016) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE CURRENT IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND /OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED.
- 13. THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND ALL TREES WITHIN THE CONSTRUCTION AREA TO ESTABLISH A "TREE PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED (OTHER THAN ROOT PRUNING), MATERIALS STORED OR VEHICLES DRIVEN OR PARKED WITHIN THE "TREE PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
- 14. ALL TREE PROTECTION, TREE REMOVAL, PRUNING, AND ROOT PRUNING SHALL BE COMPLETED BEFORE CONSTRUCTION OPERATIONS COMMENCE IN ANY AREA. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DIRECTED BY THE ENGINEER.

- 15. SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN. WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.
- 16. ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR SHOWN IN THE PLANS SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS/HER OPERATIONS.
- 17. THE FINISHED EARTHWORK SHALL HAVE A VEGETATION-SUSTAINING SOIL COVERING THE TOP SIX INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION-SUSTAINING SOIL REQUIRED WILL BE PAID FOR SEPARATELY AS TOPSOIL FURNISH AND PLACE, 6".
- 18. ANY EXISTING PAVEMENT MARKINGS IN CONFLICT WITH PROPOSED PAVEMENT MARKINGS SHALL BE REMOVED.
- 19. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND VILLAGE OF CLARENDON HILLS.
- 20. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXEL TRUCK.
- 21. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER.
- 22. PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED.
- 23. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COORDINATE WITH THE BNSF RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE BNSF RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05.

COMMITMENTS: NONE

TERRA ENGINEERING LTD.

	USER NAME = DevidL	DESIGNED -	REVISED -
		DRAWN -	REVISED -
VALUE OF	PLOT SCALE = NTS	CHECKED -	REVISED -
	PLOT DATE = 5/13/2020	DATE - 4/20/2020	REVISED -

*	SPECIALTY 1	ITEM			0031	0004	0004
SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE ITEP	100% STATE	80% FEDERAL 20% STATE CMAQ
	20101000	TEMPORARY FENCE	FOOT	300	300		
	20200100	EARTH EXCAVATION	CU YD	29	29		
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	29	29		
	20400800	FURNISHED EXCAVATION	CU YD	31	31		
	20800150	TRENCH BACKFILL	CU YD	3	3	***	
	20000130	TRENCH BACKITEE	00 10		J		
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	89	89		
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	1 35	135		
	21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	287	287		
*	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	5	5		
-							
*	25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	5	5		
*	25100630	EROSION CONTROL BLANKET	SQ YD	142	142		
来	25200110	SODDING, SALT TOLERANT	SQ YD	255	255		
•	25200200	SUPPLEMENTAL WATERING	UNIT	4	4		
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	23	23		
	20000230	TEME ONANT ENGSTON CONTROL SELDING	1 3040	2.3	25		
					J		

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	ENGINEERING LTD.	ŀ

USER NAME = DavidL	DESIGNED ~	REVISED -
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PLOT DATE = 5/24/2020	DATE - 4/20/2020	REVISED -

STATE	: OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

VILLAGE (OF CLARENE	ON HILL	s	SUMM	ARY O	QUANTITIES	MUN	SE
PRO	SPECT AVE	NUE					1003	16-00
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0031

ROADWAY

0004

ROADWAY

0004

* S	PECIALTY I	TEM			0031	0004	0004
SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE ITEP	100% STATE	80% FEDERAL 20% STATE CMAQ
	28000400	PERIMETER EROSION BARRIER	FOOT	274	274		
	28000510	INLET FILTERS	EACH	6	6		
	28100500	BROKEN CONCRETE RIPRAP	SQ YD	25	25		
			,				
	30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	7	7		
	30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	89	89		
	31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	564	564		
	35300300	PORTLAND CEMENT CONCRETE BASE COURSE 8"	SQ YD	2	2		
	40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	544	443	102	
	40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	78	78		
	40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	101	101		
	40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	130	110	20	
	42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2223	2223		
							-
	42400800	DETECTABLE WARNINGS	SQ FT	72	72		
	44000100	PAVEMENT REMOVAL	SQ YD	92	92		
			•				

USER NAME = DavidL	DESIGNED ~	REVISED -
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PLOT SCALE = NTS	CHECKED -	REVISED
PLOT DATE = 5/24/2020	DATE - 4/20/2020	REVISED -

	VILLAGE OF	CLARENDO	N I	HILLS	SUI	MMARY OF	QUANTITIES	MUN	SECTION	COUNTY	TOTAL	SHEET S NO.
	DDOG	PECT AVEN	IE					1003	16-00045-01-MS	DUPAGE	79	4
1	rnusi	ECI MYEN	UE							CONTRACT	NO. 6	1G62
	SCALE: NTS	SHEET 2	OF	7 SHEETS	STA.	T	O STA.		[ILL[NOIS] FED. A	ID PROJECT		

0031

ROADWAY

0004

ROADWAY

0004

* S	PECIALTY I	TEM			0031	0004	0004
					80% FEDERAL		80% FEDERAL
		ITEM		TOTAL	20% STATE	100% STATE	1
SI	CODE NO.	ITEM	UNIT	QUANTITY	ITEP	GCPF	CMAQ
	44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	226		226	
	44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	906	906		
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	261	261		
				•			
	44000600	SIDEWALK REMOVAL	SQ FT	5135	5135		
	44201713	CLASS D PATCHES, TYPE I, 6 INCH	Sa YD	22	22		
		CEASE D'ATORES, THE I, C'INCH	54 15	La La			
	44001717	CLASS D DATOUTS TYPE II S. INCH	SO VD	22	22		
	44201711	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	22	22		
	44201721	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	22	22		
	44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	22	22		
	48301000	PROTECTIVE COAT	SO YD	624	624		
	60108200	PIPE UNDERDRAINS 6" (SPECIAL)	FOOT	60	60		
	60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	EACH	1	1	100	
	60207005	CATCH BASINS, TYPE C, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	1	1		
				-	-		
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1		
	00210400	MANNIOLLS, THE A, 4 -DIAMETER, TIPE I FRAME, GLUSEU LIU	LACT	1	1		
	ALVANOS						

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	ENGINEERING LTD.	

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VILLAGE	OF CLAREND	ON HILL	.S	SU
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ALE: NTS	SHEET 3	OF 7	SHEETS	STA.

SUMMARY	OF QUANTITIES	
STA.	TO STA.	

ROADWAY

		[ILLINOIS[FED. A	D PROJECT		
_			CONTRACT	NO. 610	62
	1003	16-00045-01-MS	DUPAGE	79	5
	MUN	SECTION	COUNTY	SHEETS	SHEET NO.

	PECIALTY :				0031	0004	0004
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SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE ITEP	100% STATE GCPF	80% FEDERAL 20% STATE CMAQ
	60255500		EACH	3	3	0011	CWAG
		MANUSCES TO BE ASSISTED	LACII		J		
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	257	257		
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	20	20		
	•					•	
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1		
	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1		
	99301001	REGULATED SUBSTANCES FRE-CONSTRUCTION FLAN	LSUM	1	1		
	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1		
	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	20	20		
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6		
	67100100	MOBILIZATION	LSUM	1	1		
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	40	40		
	70300100	SHORT TERM PAVEMENT MARKING	FOOT	32	32		
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	11	11		
	70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SQ FT	216	216		
	70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	310	310		

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PLOT DATE = 5/24/2020	DATE	-	4/20/2020	REVISED	-	30000000000000000000000000000000000000	l

STATE	OF	ILLINOIS
DEPARTMENT	OF T	TRANSPORTATION

VILLAGE OF	CLAREND	ON HILL	S	SUM	MARY OF QUANTITIES	MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ppne	PECT AVE	HIE				1003	16-00045-01-MS	DUPAGE	79	6
rnos	LEGI AVLI	10L						CONTRACT	NO. 610	62
SCALE: NTS	SHEET 4	OF 7	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

ROADWAY

	SPECIALTY I	TEM			0031	0004	0004
	DI ECTALITI						
					80% FEDERAL		80% FEDERAL
SI	CODE NO.	ITEM	TINU	TOTAL QUANTITY	20% STATE	100% STATE	20% STATE
					ITEP	GCPF	CMAQ
	70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	48	48		
	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	9	9		
•	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	197	197		
-	13000100		30 11	131	131		
•	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	353	353		
	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	391	391		
•	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	91	91		
•	K0013000	PERENNIAL PLANTS, PRAIRIE TYPE, 2" DIAMETER BY 4" DEEP PLUG	UNIT	6	6		
	K0013020	PERENNIAL PLANTS, PRAIRIE TYPE, GALLON POT	UNIT	2	2		
					-		
•	K0013030	PERENNIAL PLANTS, WETLAND TYPE, 2" DIAMETER BY 4" DEEP PLUG	UNIT	7	7	***************************************	
	K0013050	PERENNIAL PLANTS, WETLAND TYPE, GALLON POT	UNIT	3	3		
	K0026850	PERENNIAL PLANT CARE	SQ YD	201	201	***	
			34 10	£ V 1			
•	K0029634	WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE	POUND	64	64		
•	X0320018	FINISHES	L SUM	1	1		
	V0320007	DENCH DENOVAL	EACH!	7	7		
	X0320067	BENCH REMOVAL	EACH	3	3		

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USER NAME = DavidL	DESIGNED ~	REVISED -
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PLOT SCALE = NTS	CHECKED -	REVISED
PLOT DATE = 5/24/2020	DATE - 4/20/2020	REVISED -

STATI	E OI	ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

VILLAGE OF CLARENDON HILLS				SUI	MMARY OF QUANTITIES	MUN SECTION COUNTY TOTAL SHEETS					
DR(SPECT AVEN	HE				1003	16-00045-01-MS	DUPAGE	79	7	
1110	OI LUI ATLI	UL						CONTRACT	NO. 61	G62	
SCALE: NTS	SHEET 5	OF 7	SHEETS	STA.	TO STA.		[ILLINOIS FED. A	D PROJECT			

ROADWAY

	FEDERAL % STATE CMAQ
SI CODE NO. TOTAL 20% STATE 100% STATE 20% STATE 20% STATE 100% STATE 20% STATE	% STATE
SI CODE NO. ITEM UNIT QUANTITY ITEP GCPF X0322024 TRENCH DRAIN EACH 2 2 2 X0323706 TRASH RECEPTACLE RELOCATION EACH 5 5 • X0324582 PLUMBING EQUIPMENT, ACCESSORIES AND RELATED SYSTEMS LSUM 1 1	
X0322024 TRENCH DRAIN EACH 2 2	CMAU
X0323706 TRASH RECEPTACLE RELOCATION EACH 5 5 * X0324582 PLUMBING EQUIPMENT, ACCESSORIES AND RELATED SYSTEMS LSUM 1 1	
• X0324582 PLUMBING EQUIPMENT, ACCESSORIES AND RELATED SYSTEMS LSUM 1 1	
• X0324582 PLUMBING EQUIPMENT, ACCESSORIES AND RELATED SYSTEMS LSUM 1 1	
X0326859 PAVEMENT IMPRINTING SQ YD 81 81	
* X0327007 PEDESTRIAN LIGHT POLE, INSTALL ONLY	
X0327739 MISCELLANEOUS ELECTRICAL WORK LSUM 1 1	
X0327739 MISCELLANEOUS ELECTRICAL WORK LSUM 1 1 1	
X0327980 PAVEMENT MARKING REMOVAL - WATER BLASTING SQ FT 29 29	
X4240430 PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH, SPECIAL SQ FT 2855 2855	
X6030310 FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) EACH 8 8	
X6030310 FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) EACH 8 8	
X7010216 TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	
X7030005 TEMPORARY PAVEMENT MARKING REMOVAL SQ FT 199 199	
* X8360120 LIGHT POLE FOUNDATION, SPECIAL EACH 4 4	
* X8360120 LIGHT POLE FOUNDATION, SPECIAL EACH 4 4	
XX007609 GRASS PAVERS S0 YD 50 50	
Z0003850 BENCHES EACH 2 2	

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USER NAME = DavidL	DESIGNED ~	REVISED -
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PLOT SCALE = NTS	CHECKED -	REVISED -
PLOT DATE = 5/24/2020	DATE - 4/20/2020	REVISED -

STATI	E 01	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

VILLAGE OF CLARENDON HILLS				SUN	MARY OF	QUA	NTITIES	MUN SECTION COUNTY SHEE						
	PROS	PECT AVEN	IIIE							1003	16-00045-01-MS	DUPAGE	79	8
		LUI ATLI	IUL									CONTRACT	NO. 6	1G62
	SCALE: NTS	SHEET 6	OF	7	SHEETS	STA.	T	O STA		ILLINOIS FED. AID PROJECT				

ROADWAY

* 5	PECIALTY	ITEM			0031	0004	0004
SI	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	80% FEDERAL 20% STATE ITEP	100% STATE GCPF	80% FEDERAL 20% STATE CMAQ
	Z0003855	BICYCLE RACKS	EACH	9	9		
					:		
*	Z0007601	BUILDING REMOVAL NO. 1	LSUM	1	1		
	Z0013798		LSUM	1	1	****	
	•				,		
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1		1	
	XX009400	BIORETENTION SYSTEM A	SO FT	994	994		
	XX009401	RELOCATE BIKE FIX-IT STATION	EACH	1	1		
	XX009402	BIKE RACK REMOVAL	EACH	4	4		
	XX009403	BUILDING CONCRETE	CU YD	45			45
	XX609404	BUILDING METALS	L SUM	1	1		
	040	PULL DANG SANJSH CARDENTDY		_			
	XX069405	BUILDING FINISH CARPENTRY	L SUM	1	1		
	VV44 040 C	BUILDING EXTERIOR ENVELOPE	1 51114	•	1		
	XX009406	BOLDING EXTERIOR ENVELOPE	L SUM	1	1		
	VVs and	BUILDING OPENINGS	L SUM	1			1
	XX609407		L JUIVI	1			1
	XX609408	BUILDING SIGNAGE	L SUM	1	1		
	VX001408		L JUM	<u>.</u>	1		

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7. 2018/18-258 Clarendon Hills Doyntown	TERRA	
500 7 47.28	ENGINEERING LTD.	

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	DRAWN -	REVISED
PLOT SCALE = NTS	CHECKED -	REVISED -
PLOT DATE = 5/24/2020	DATE - 4/20/2020	REVISED -

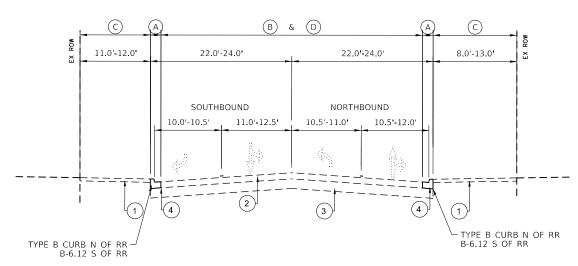
STATI	E OF	: ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

VILLAGE OF CLARENDON HILLS PROSPECT AVENUE SCALE: NTS SHEET 7 OF 7 SHE					SUMMAR	Y OF	0)UA
SCALE: NTS	SHEET 7	OF	7	SHEETS	STA.	T	D	STA

ROADWAY

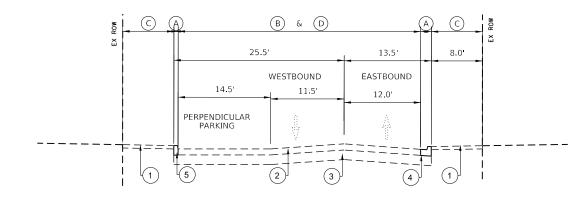
OF QUANTITIES	MUN	SECTION	COUNTY	SHEETS	NO.
	1003	16-00045-01-MS	DUPAGE	79	9
			CONTRACT	NO. 610	62
TO STA,		ILLINOIS FED. A	ID PROJECT		





EXISTING TYPICAL SECTION

PROSPECT AVE STA 10+75.24 TO 12+73.7



EXISTING TYPICAL SECTION

RAILROAD AVE STA 40+86 TO 41+25

<u>EGEND</u>

- 1 EXISTING P.C.C. SIDEWALK
- ② EXISTING BITUMINOUS SURFACE, VARIES 2.5" TO 6"
- ③ EXISTING 8" AGGREGATE BASE COURSE (+/-)
- 4 EXISTING B-6.12 CURB AND GUTTER
- 5 EXISTING TYPE B CURB
- 6 EXISTING B-6.24 CURB AND GUTTER
- A CURB AND GUTTER REMOVAL
- B HMA SURFACE REMOVAL. 2 3/4"
- © SIDEWALK REMOVAL
- D PAVEMENT REMOVAL

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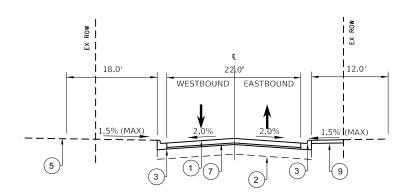
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	DRAWN -	REVISED
PLOT SCALE = NTS	CHECKED -	REVISED
PLOT DATE = 5/13/2020	DATE - 4/20/2020	REVISED

PROSPECT AVE STA 10+75.24 TO 12+73.7

LEGEND

- 1. PROPOSED HMA SURFACE, IL-9.5 MIX D N50 2"
- 2. EXISTING AGGREGATE BASE COURSE, 8" (+/-)
- 3. COMBINATION CURB AND GUTTER, TYPE B-6.12
- 4. COMBINATION CURB AND GUTTER, TYPE B-6.24
- 5. TOPSOIL FURNISH AND PLACE, 6"
- 6. CLASS D PATCH 6"
- 7. POLYMERIZED HMA BINDER COURSE, IL-4.75, N50 (3/4" TO 1")
- 8. AGGREGATE SUBGRADE IMPROVEMENT, 12"
- 9. PORTLAND CEMENT CONCRETE SIDEWALK 5"
- 10. GEOTECHNICAL FABRIC

NOTE: LOCATIONS OF CLASS D PATCHES TO BE DETERMINED IN THE FIELD



PROPOSED TYPICAL SECTION

RAILROAD AVE STA 40+86 TO 41+25

HOT MIX ASPHALT REQUIREMENTS

APPLICATION	MIXTURE TYPE	AIR VOIDS @ NDES
ROADWAY RESURFACING	2" HMA SURFACE COURSE, IL-9.5 MIX D, N50 (IL 9.5 mm) (I" MAX) 3/4" POLYMERIZED HMA BINDER COURSE, IL-4.75, N50	4% @ 50 GYR 3.5% @ 50 GYR
PATCHING	CLASS D PATCHES (HMA BINDER IL-19mm)	4% @ 70 GYR

HMA NOTES:

- 1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112LBS/SQYD/IN. 2. 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

 3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS

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PLOT DATE = 5/13/2020	DATE - 4/20/2020	REVISED

VILLAGE OF	CLAREND	ON HILL	S	PROPOSED	TYPICAL SECTIONS	MUN	SECTION	
PROSI	PECT AVEN	JIIF				1003	16-00045-01-MS	
1 11031	LUI AVLI	NOL .						CC
SCALE: NTS	SHEET 2	OF 2	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID P

							SIC	GN INSTALLATI	ON SCHEDULE	:								
					1	PANEL			SIGN PANEL	SIGN PANEL	151051	TOTAL	REMOVE SIGN ASSEMBLY	REMOVE SIGN ASSEMBLY	ASSEMBLY	SIGN PANEL ASSEMBLY		
STREET	STATION	RT/LT	SIGN	DESIGNATION		NSIONS N)	TYPE A POST (EACH)	(EACH)	FT)	TYPE 2 (SQ FT)	LENGTH /POST (FT)	TOTAL LENGTH (FT)	TYPE A (EACH)	TYPE B (EACH)	TYPE A (EACH)	TYPE B (EACH)	TYPE 1 (SQ FT)	TYPE 2 (SQ FT)
			STOP	R1-1	30		(EACH)	(EACH)	F1)	FIJ	/FU31 (F1)	LENGIH (FI)	(EACH)	(EACH)	(EACH)	(EACH)	F1)	
PROSPECT AVE	10+57.00		ONCOMING TRAFFIC DOES NOT STOP	W4-4bP	24		.2								1			
			STOP	R1-1	30		30											
			3-WAY	NI-I	1	1												
PROSPECT AVE	11+12.00		NO LEFT TURN	R3-2	24	1 2	24						1		1			
			5-6 PM	11.5 2		1							1					
			STOP	R1-1	30) 3	30											
			CROSS TRAFFIC DOES NOT STOP	W4-4P	24		.2											
PROSPECT AVE	11+18.00		NO LEFT TURN	R3-2	24		24								1			
			5-6PM															
22222222	44 40 00		NO LEFT TURN	R3-2	24	1 2	24										0	
PROSPECT AVE	11+18.00	LT	5-6PM										1		1		0	1
			STREET SIGN: S PROSPECT AV															
PROSPECT AVE	11+21.00	RT	STREET SIGN: ANN AV												1			
PROSPECTAVE	11+21.00	KI	NO LEFT TURN	R3-2	24	1 2	24								1			
			5-6PM															
			NOTICE: IT IS A VIOLATION TO CROSS TRACKS BEFORE														0	
PROSPECT AVE	11+42.00		NO LEFT TURN	R3-2	24	1 2	.4								1		0	
			5-6PM														0	
PROSPECT AVE	11+54.00		STREET SIGN: S PROSPECT AV												1			
THOSTECTAVE	11154.00		STREET SIGN: RAILROAD AV												1			
PROSPECT AVE	11+67.00		NO LEFT TURN	R3-2	24	1 2	24								1		0	
			5-6PM												-		0	
PROSPECT AVE	12+43.00	LT	GREEN SIGN												1			
TOTAL							0	0	0	0	0	0	0	0	9	0	0	0

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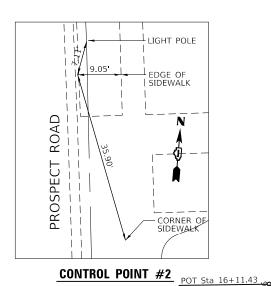
	USER NAME = DavidL	DESIGNED -	REVISED
		DRAWN -	REVISED -
-	PLOT SCALE = NTS	CHECKED -	REVISED -
	PLOT DATE = 5/13/2020	DATE - 4/20/2020	REVISED -

VILLAGE OF CLARENDON HILLS					SE OF CLARENDON HILLS SIGN SCHEDULE				COUNTY	TOTAL SHEETS	SHEET NO.
PROS	IIIE					1003	16-00045-01-MS	DUPAGE	79	12	
PROSPECT AVENUE									CONTRACT	NO. 610	62
SCALE: NTS	SHEET 1	OF 1	SHEETS	STA.	TO	STA.	ILLINOIS FED. AID PROJECT				

CONTROL POINT #1

SURVEY POINT

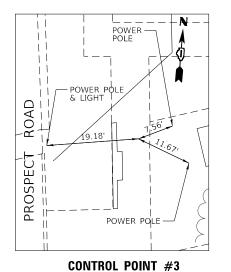
RAILROAD AVENUE STA. 40+25.23, 21.01' LT N 1,868,711.40 E 1,087,391.73 ELEV. 722.71



SURVEY POINT

PROSPECT ROAD

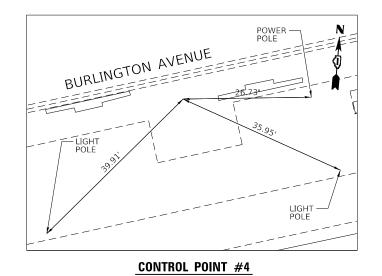
STA. 14+54.94, 26.68' RT



SURVEY POINT

PROSPECT ROAD

STA. 12+74.42, 39.57 RT



SURVEY POINT

BURLINGTON AVENUE

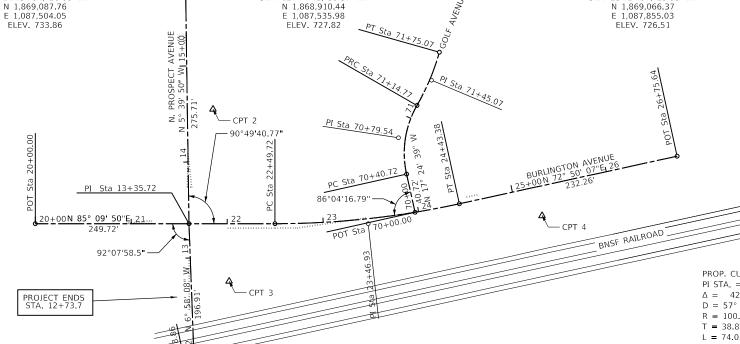
STA 25+24.97, 29.95 RT

LIGHT POLE -ROAD PROSPECT - POWER POLE ANN STREET

CONTROL POINT #5

SURVEY POINT

PROSPECT ROAD STA. 11+37.04, 28.02' RT N 1,868,774.91 E 1.087.540.96 ELEV. 724.57



GOLF ROAD PROP. CURVE GOLF1 PROP. CURVE GOLF2 PI STA. = 70+79.54PI STA. = 71+45.07 $\Delta = 42^{\circ} 25' 36'' (RT)$ $\Delta = 14^{\circ} 04' 56'' (LT)$ $D = 57^{\circ} 17' 45"$ D = 23° 21' 14" R = 100.00R = 245.34T = 38.81T = 30.30L = 74.05L = 60.30E = 7.27E = 1.86 e **=** ____ T.R. = S.E. RUN = S.E. RUN = P.C. STA. = $\overline{70+40.72}$ P.C. STA. = $\overline{71+14.77}$ P.T. STA. = 71+14.77P.T. STA. = 71+75.07

ROADWAY CURVE DATA

DESIGNED -

DRAWN

DATE

CHECKED

- 4/20/2020

DATUM IS NAVD 88

POT Sta 10+00.00

REVISED

REVISED

REVISED

REVISED

RAILROAD AVENUE

84°21'01.88"

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

175°24'06.82"

VILLAGE OF CLARENDON HILLS **ALIGNMENT AND TIES** PROSPECT AVENUE SCALE: 50 SHEET 1 OF 2 SHEETS STA. TO STA.

MUN SECTION COUNTY DUPAGE 79 13 1003 16-00045-01-MS CONTRACT NO. 61G62

SCALE IN FEET

USER NAME = DavidL TERRA ENGINEERING LTD. PLOT DATE = 5/13/2020

LOT SCALE = 50

PLAN AND PROFILE

ROADWAY CURVE DATA

BURLINGTON AVENUE

PROP. CURVE BURLINGTON1

PI STA. = 23+46.93 $\Delta = 12^{\circ} 19' 44" (LT)$ D = 6° 21' 58" R = 900.00' T = 97.21

P.T. STA. = 24+43.38

BURLINGTON AVE.

L = 193.66E = 5.23' T.R. = S.E. RUN = P.C. STA. = 22+49.72

ALIGNMENT COORDINATES BURLINGTON AVENUE						
	STATION	N	Е			
POT	20+00.00	1,868,952.98	1,087,329.67			
PC	22+49.72	1,868,974.03	1,087,578.50			
PI	23+46.93	1,868,982.23	1,087,675.36			
PT	24+43.38	1,869,010.91	1,087,768.24			
POT	26+75.64	1,869,079.46	1,087,990.16			

ALIGNMENT COORDINATES PROSPECT ROAD						
	STATION	N	E			
POT	10+00.00	1,868,635.04	1,087,540.99			
PI	11+38.81	1,868,771.03	1,087,513.15			
PI	13+35.72	1,868,996.48	1,087,489.26			
POT	16+11.43	1,868,240.85	1,087,462.05			

	STATION	N	E
POT	70+00.00	1,868,998.22	1,087,723.00
PC	70+40.72	1,869,037.08	1,087,710.82
ΡI	70+79.54	1,869,074.12	1,087,699.20
PRC	71+14.77	1,869,109.29	1,087,715.62
ΡI	71+45.07	1,869,136.75	1,087,728.43
PT	71+75.07	1,869,166.50	1,087,734.18

ALIGNMENT COORDINATES GOLF AVENUE

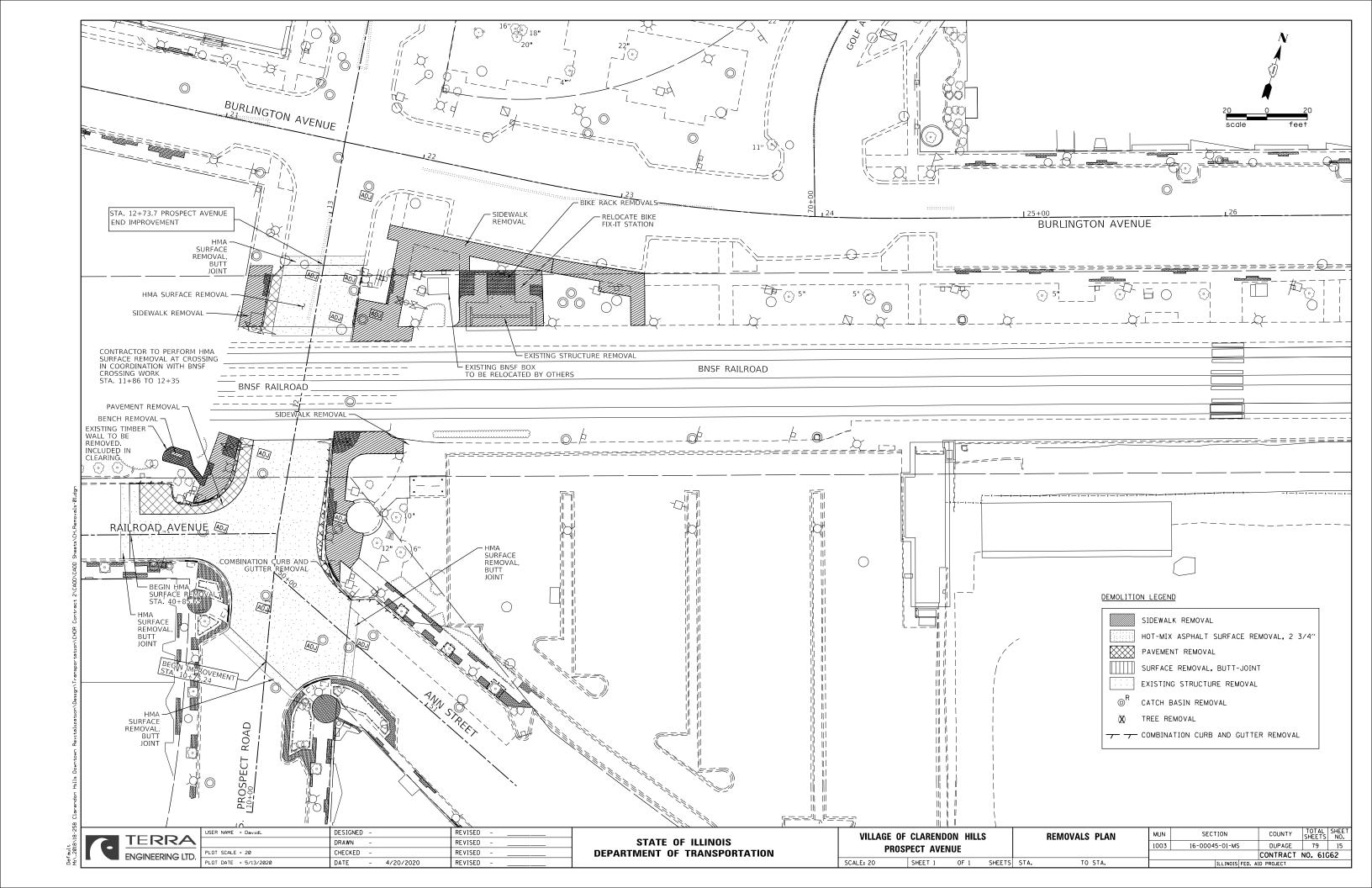
ALIGNMENT COORDINATES RAILROAD AVENUE					
	STATION	N	E		
POT	40+00.00	1,868,724.01	1,087,361.41		
POT	41+58.86	1,868,771.03	1,087,513.15		
	·				

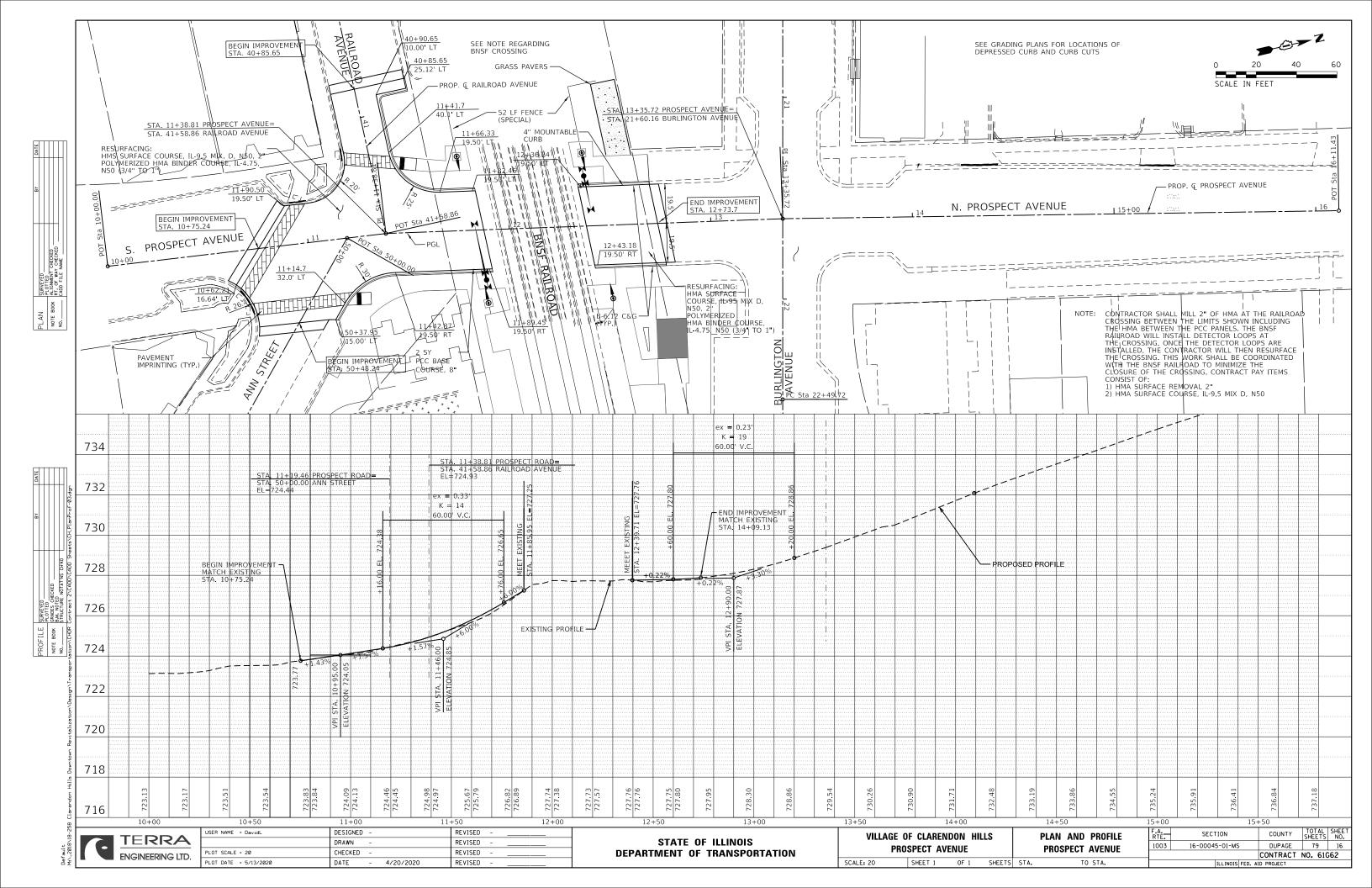
ALIGNMENT COORDINATES ANN STREET						
	STATION	N	E			
РОТ	50+00.00	1,868,752.08	1,087,517.03			
РОТ	51+60.19	1,868,685.33	1,087,662.66			

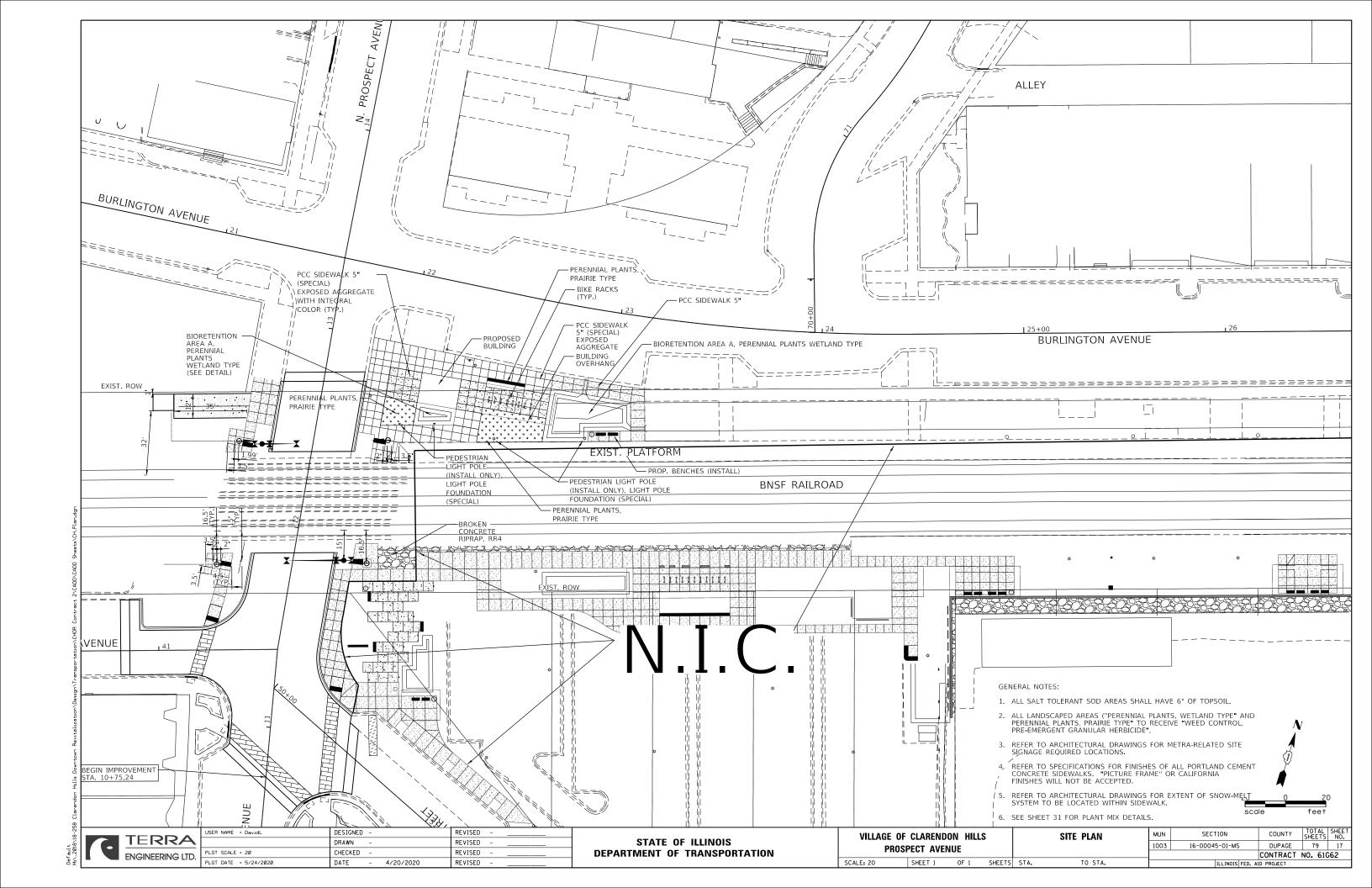
TERRA ENGINEERING LTD.

USER NAME = DavidL	DESIGNED	-		REVISED	-
	DRAWN	-		REVISED	=
PLOT SCALE = 50	CHECKED	-		REVISED	=
PLOT DATE = 5/13/2020	DATE	-	4/20/2020	REVISED	=

VILLAGE OF	CLAREND	ON HILL	s		ALIGNMENT AND	TIES	MUN	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
12099	PECT AVE	MILE					1003	16-00045-01-MS		DUPAGE	79	14
1 11031	LUI AVLI	NOL .								CONTRACT	NO. 610	62
SCALE: 50	SHEET 2	OF 2	SHEETS	STA.	TO STA.			ILLINOIS F	ED. AI	PROJECT		







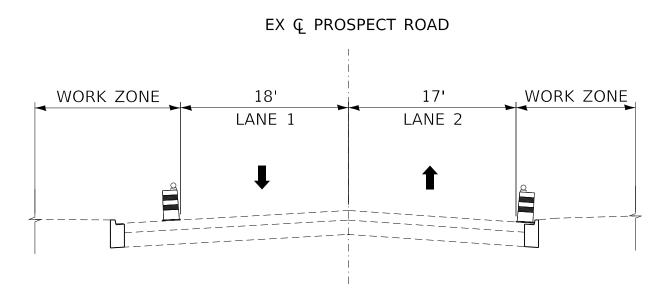
STAGE 1

CONSTRUCTION:

- CLOSE DOWN THE AREA AS SHOWN ON MOT DRAWING.
- CONSTRUCT CURB AND GUTTER, PAVEMENT AND STREET SCAPING WORK WITHIN THAT ZONE DEFINING THE PROPOSED DESIGN.

TRAFFIC:

- NORTHBOUND & SOUTHBOUND TRAFFIC USE EXISTING PROSPECT AVENUE ROADWAY REDUCED FOR CONSTRUCTION.



MOT STAGE 1 – TYPICAL SECTION

PROSPECT ROAD

STA 10+75 to STA 12+74

NOTE:

1) HMA SURFACE, PAVEMENT PATCHING AND POLYMERIZED HMA BINDER PLACEMENT TO UTILIZE STANDARD 701501. ONE LANE OF TRAFFIC WITH FLAGGERS TO BE MAINTAINED AT ALL TIMES DURING WORKING HOURS. ONE LANE IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES ON ALL ROADWAYS DURING NON-WORKING TIMES.

2) CONSTRUCTION OF THE RAILROAD TRACK CROSSING WILL BE DONE BY THE BNSF RAILROAD. HOWEVER, THIS CONTRACT INCLUDES HMA SURFACE REMOVAL AND REPLACEMENT AT THE CROSSING. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH THE BNSF RAILROAD. PROSPECT AVENUE BETWEEN RAILROAD AVENUE AND BURLINGTON AVENUE MAY BE REDUCED TO ONE-WAY, ONE LANE TRAFFIC FOR A MAXIMUM OF ONE WEEK TO ALLOW FOR CONSTRUCTION OF THE CROSSING AND INSTALLATION OF NEW SIGNAL EQUIPMENT.

3) CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS TO ALL BUILDINGS, TRAIN PLATFORMS, AND AVAILABLE PARKING AT ALL TIMES AT THE LOCATIONS SHOWN ON THE PLANS. THE CONTRACTOR SHALL PROVIDE A PLAN FOR HOW ACCESS WILL BE MAINTAINED INCLUDING A SEQUENCING PLAN FOR THE STAGING OF THE CLOSURE OF THE SIDEWALKS TO THE ENGINEER FOR APPROVAL. ALL MEANS OF PROVIDING ACCESS SUCH AS TEMPORARY PAVEMENT, STEEL PLATES, ETC. SHALL BE INCLUDED IN TRAFFIC CONTROL AND PROTECTION (SPECIAL).

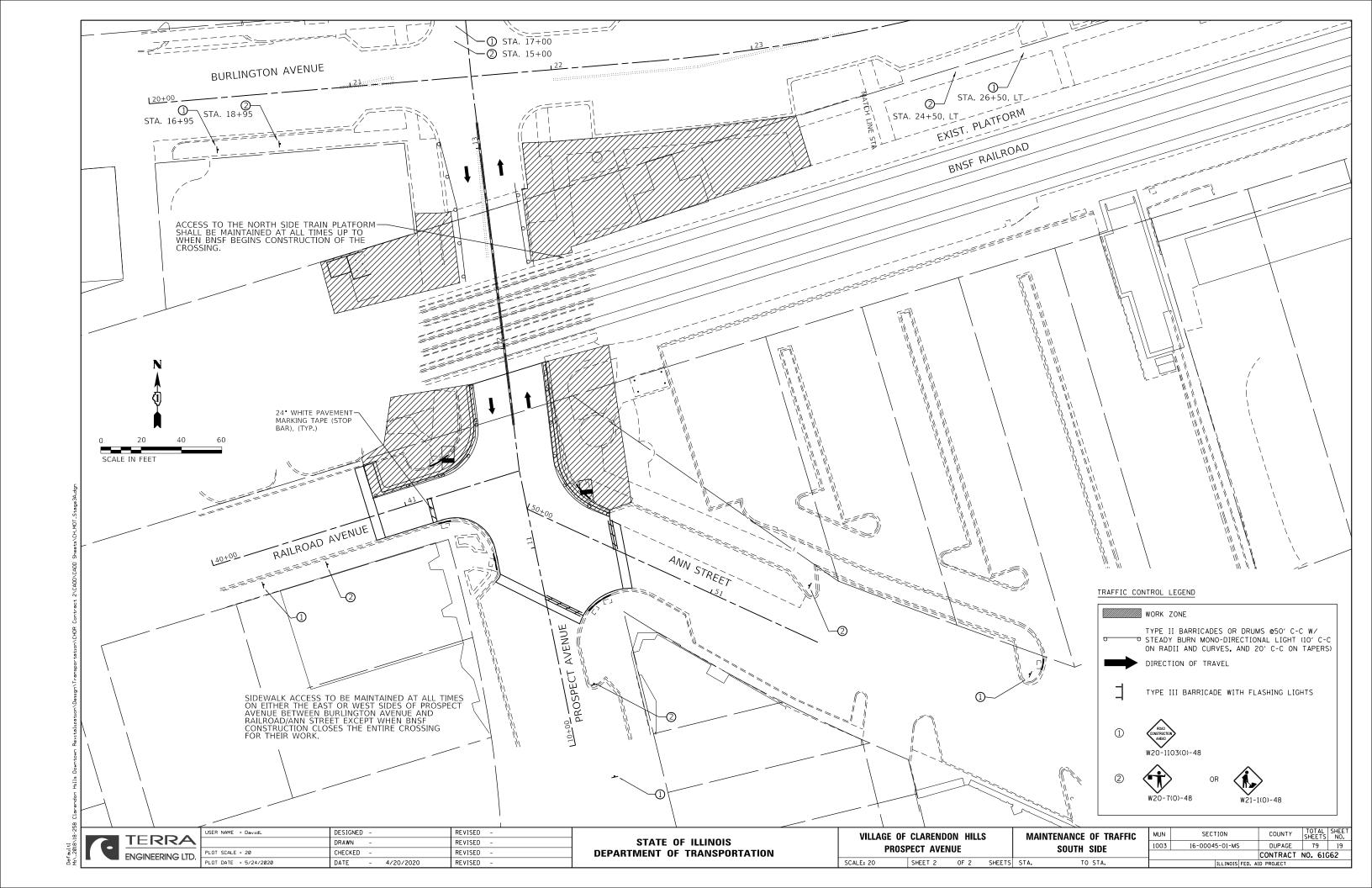
4) ACCESS BY CONTRACTORS VEHICLES AND EQUIPMENT SHALL BE ALONG RICHMOND AVENUE / PARK AVENUE / EASTERN AVENUE FROM 55TH STREET ON THE SOUTH AND PROSPECT AVENUE FROM CHICAGO AVENUE ON THE NORTH. CROSSING OF THE TRACKS ON PROSPECT AVENUE WILL NOT BE PERMITTED.

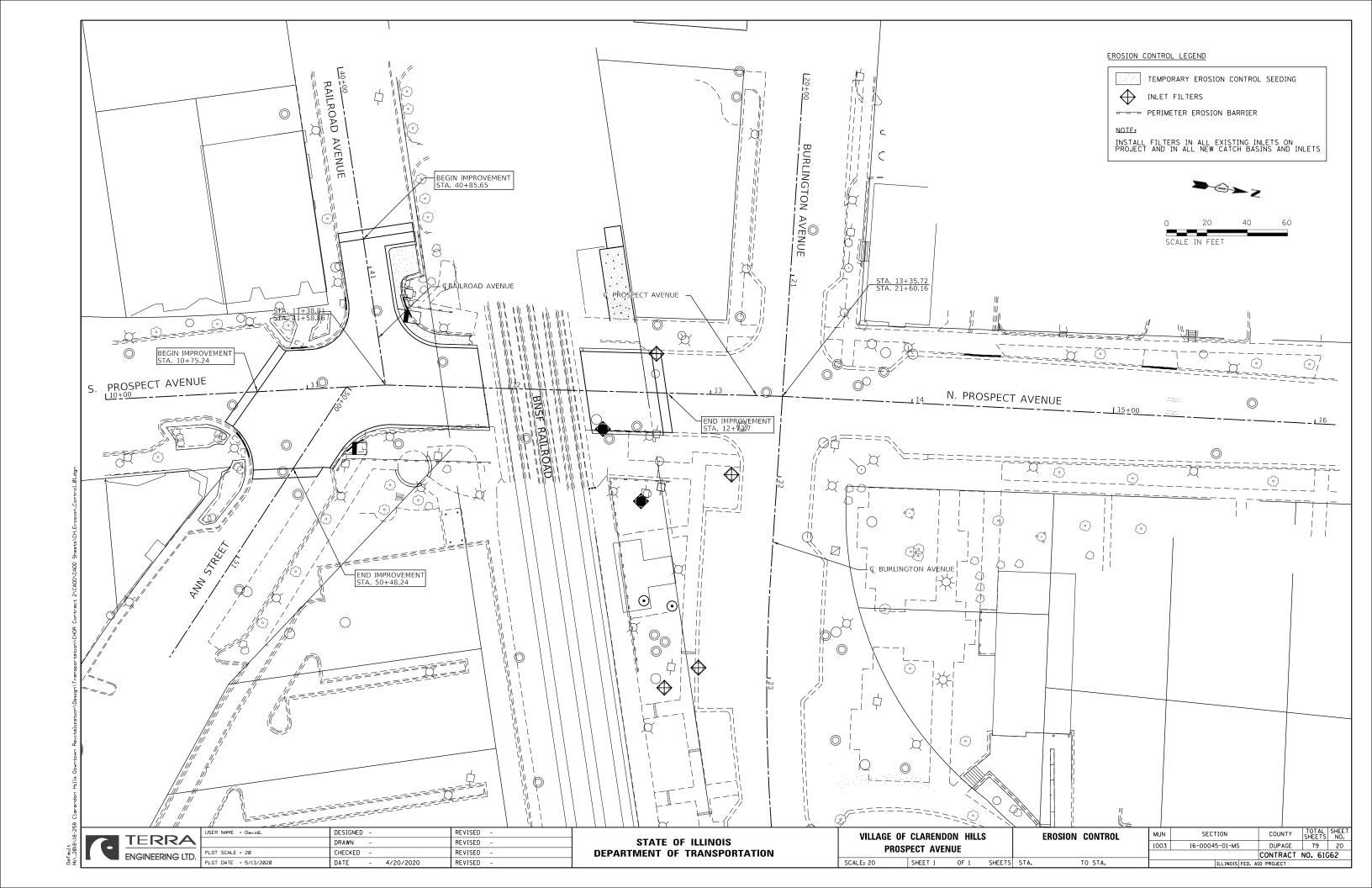


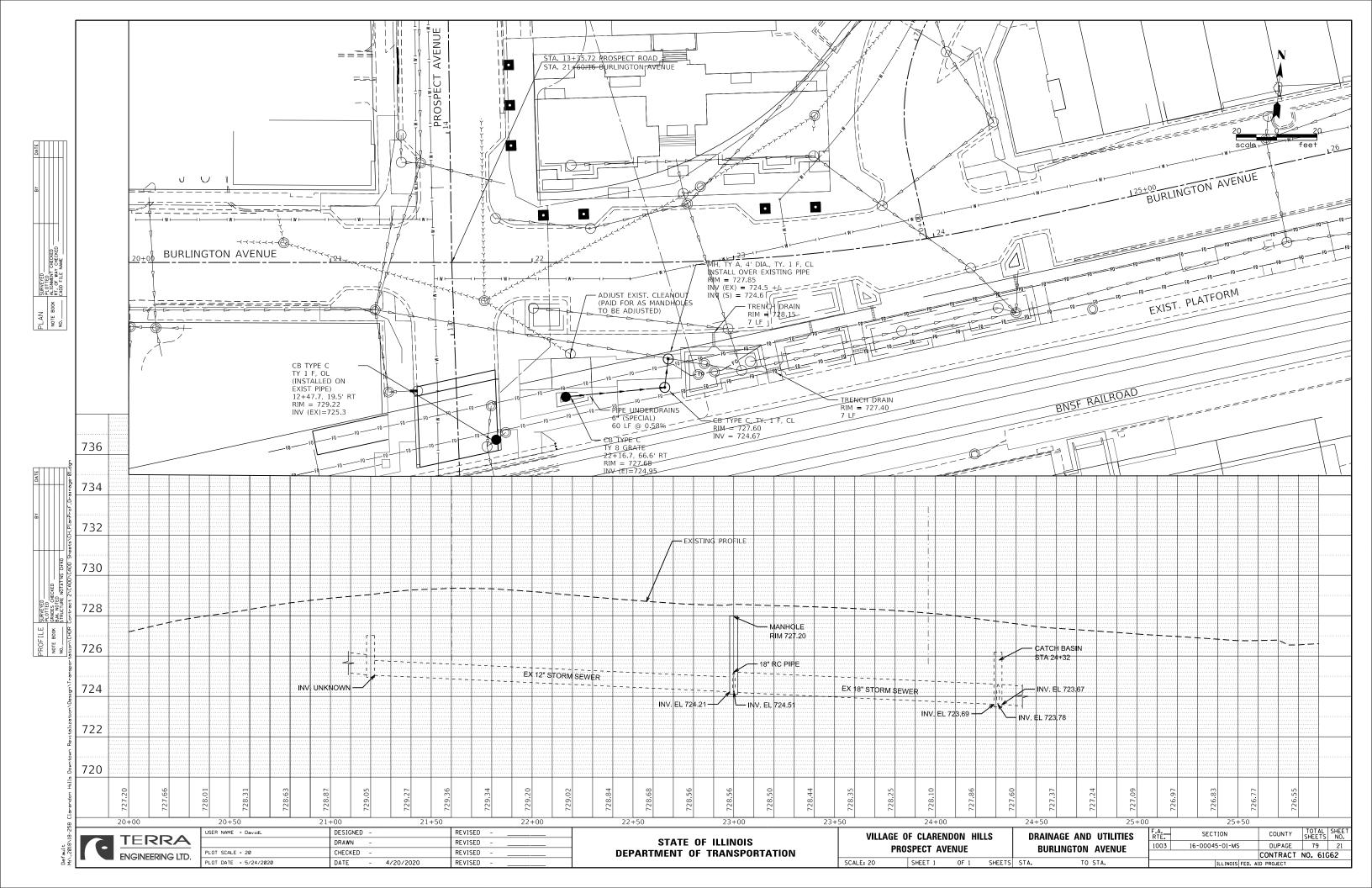
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USER NAME = DavidL	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = NTS	CHECKED -	REVISED -
PLOT DATE = 5/13/2020	DATE - 4/20/2020	REVISED -

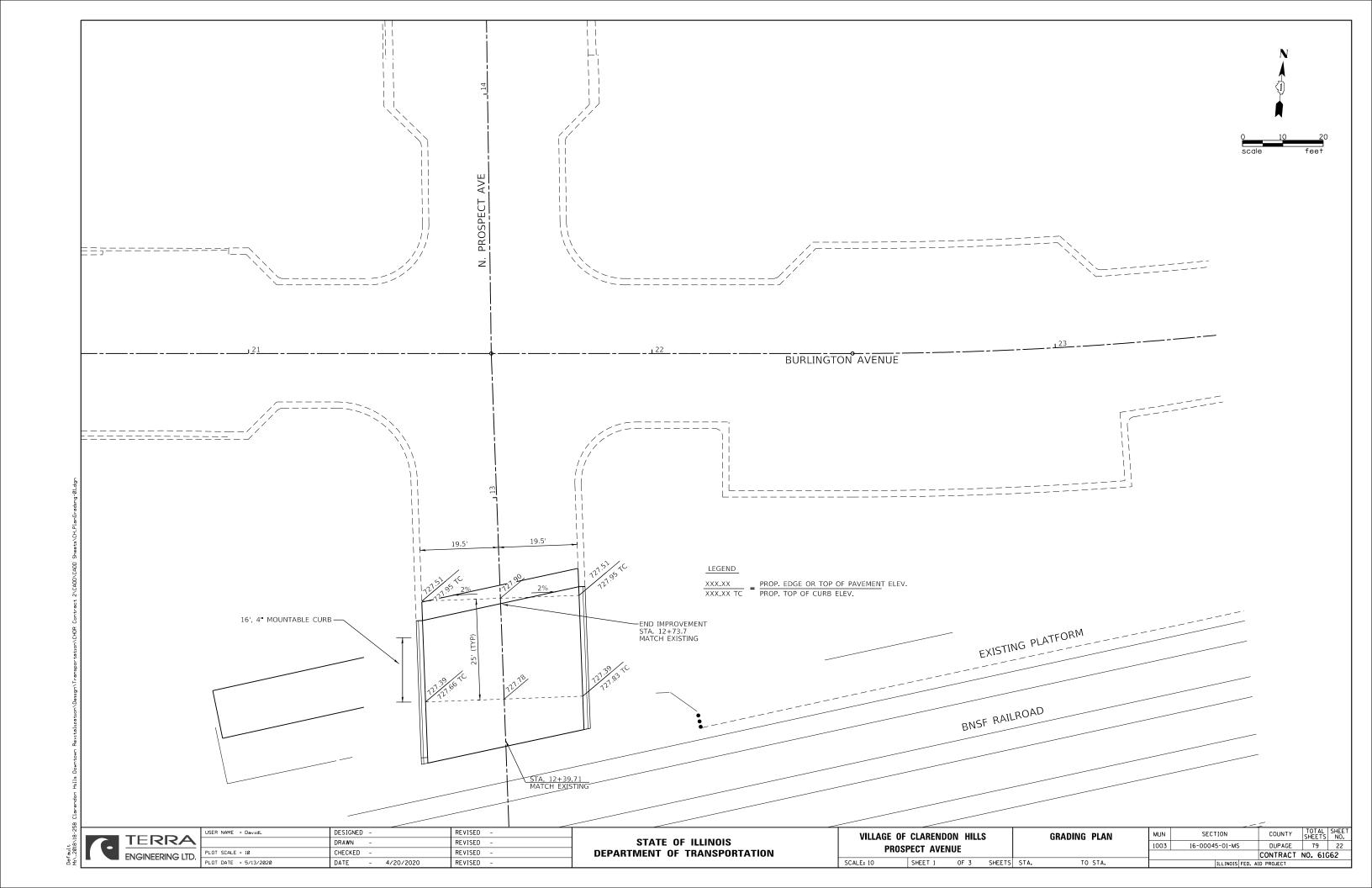
VILLAGE OF PROS	CLARENC SPECT AVE		S		TENANCE OF TRAFFICS & TYPICAL SECTION
SCALE: NTS	SHEET 1	0F 2	SHEETS	STA.	TO STA.

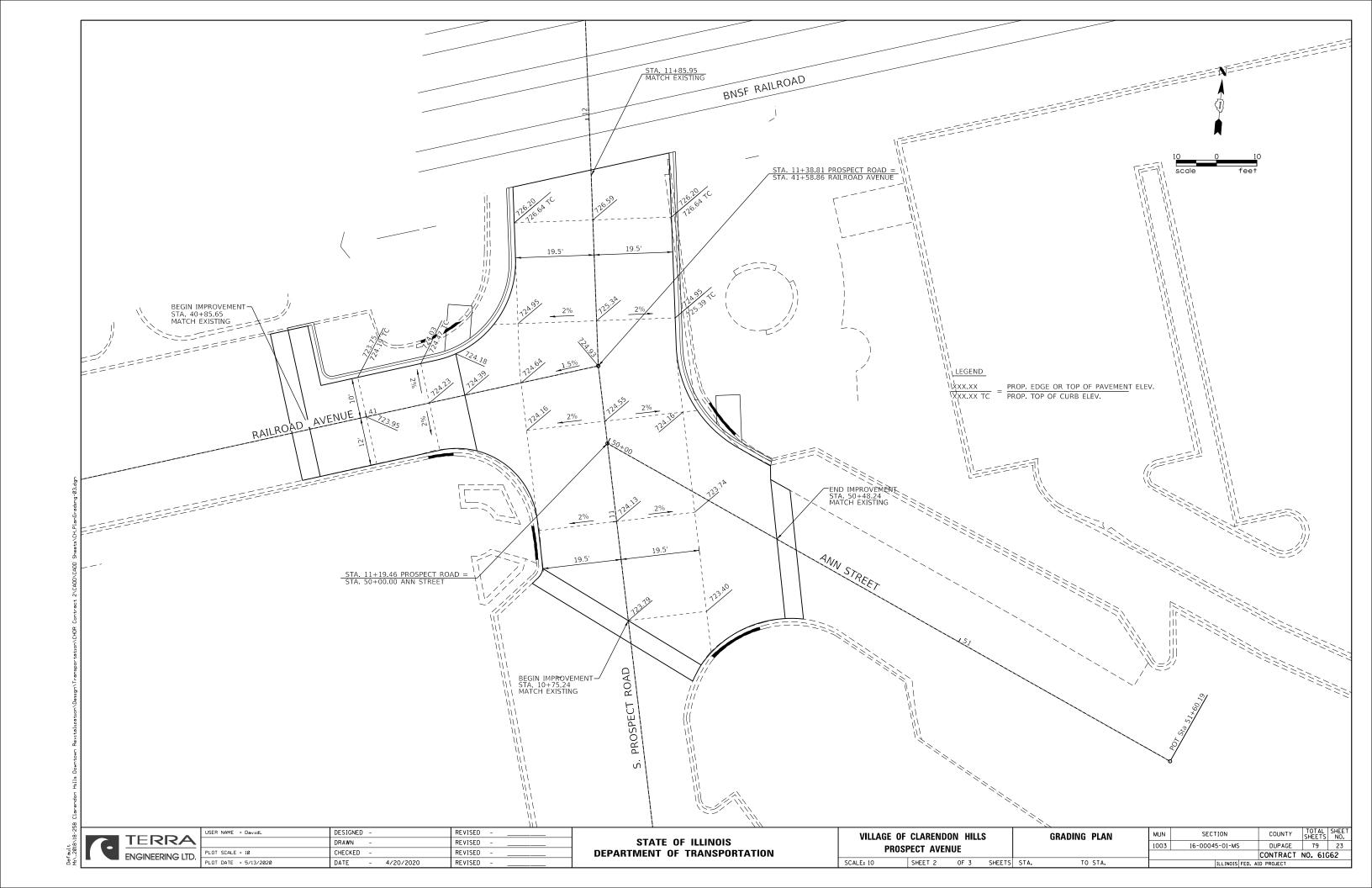
MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1003	16-00045-01-MS	DUPAGE	79	18
		CONTRACT	NO. 610	62
	ILLINOIS FED. A	ID PROJECT		

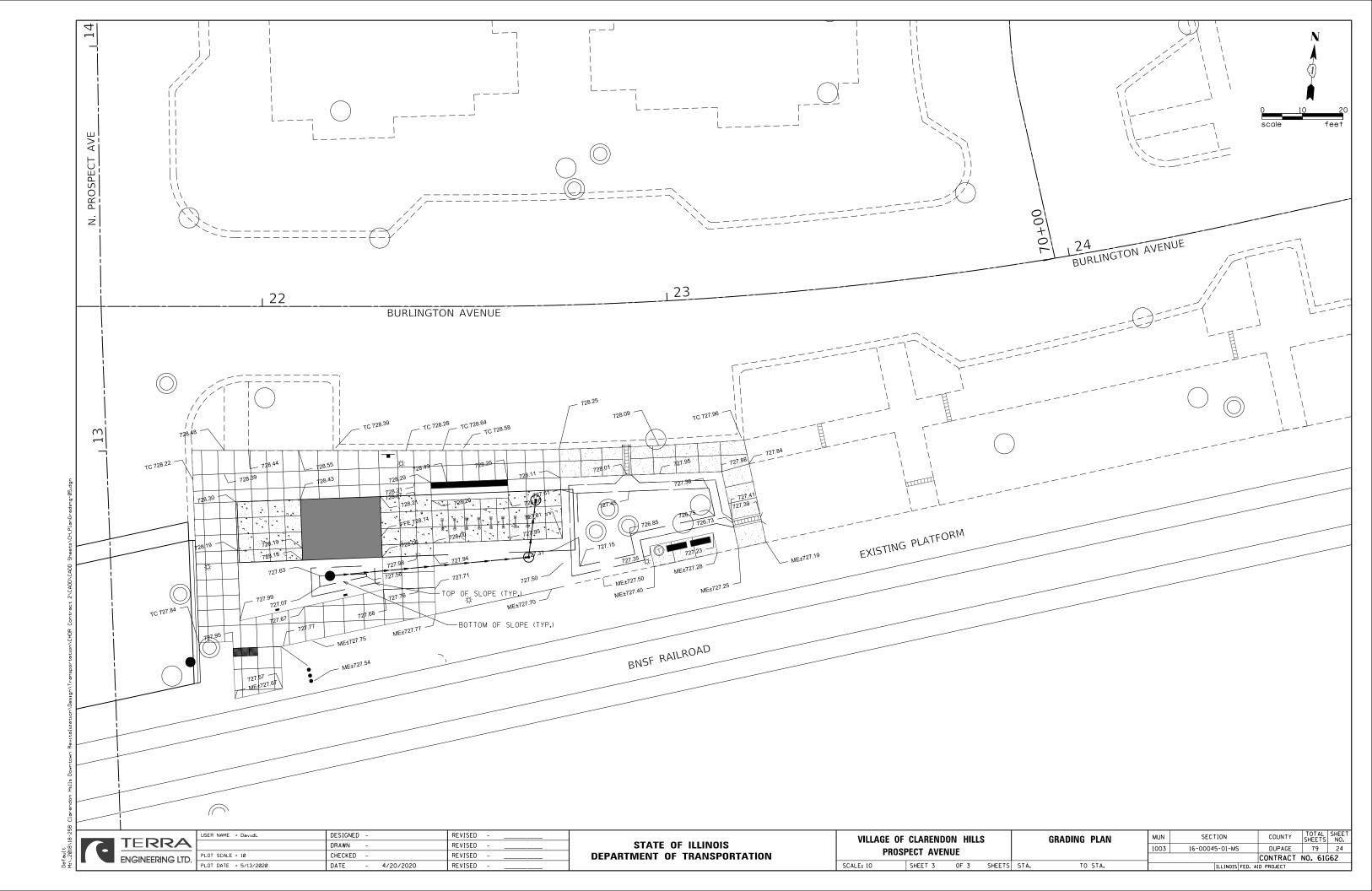


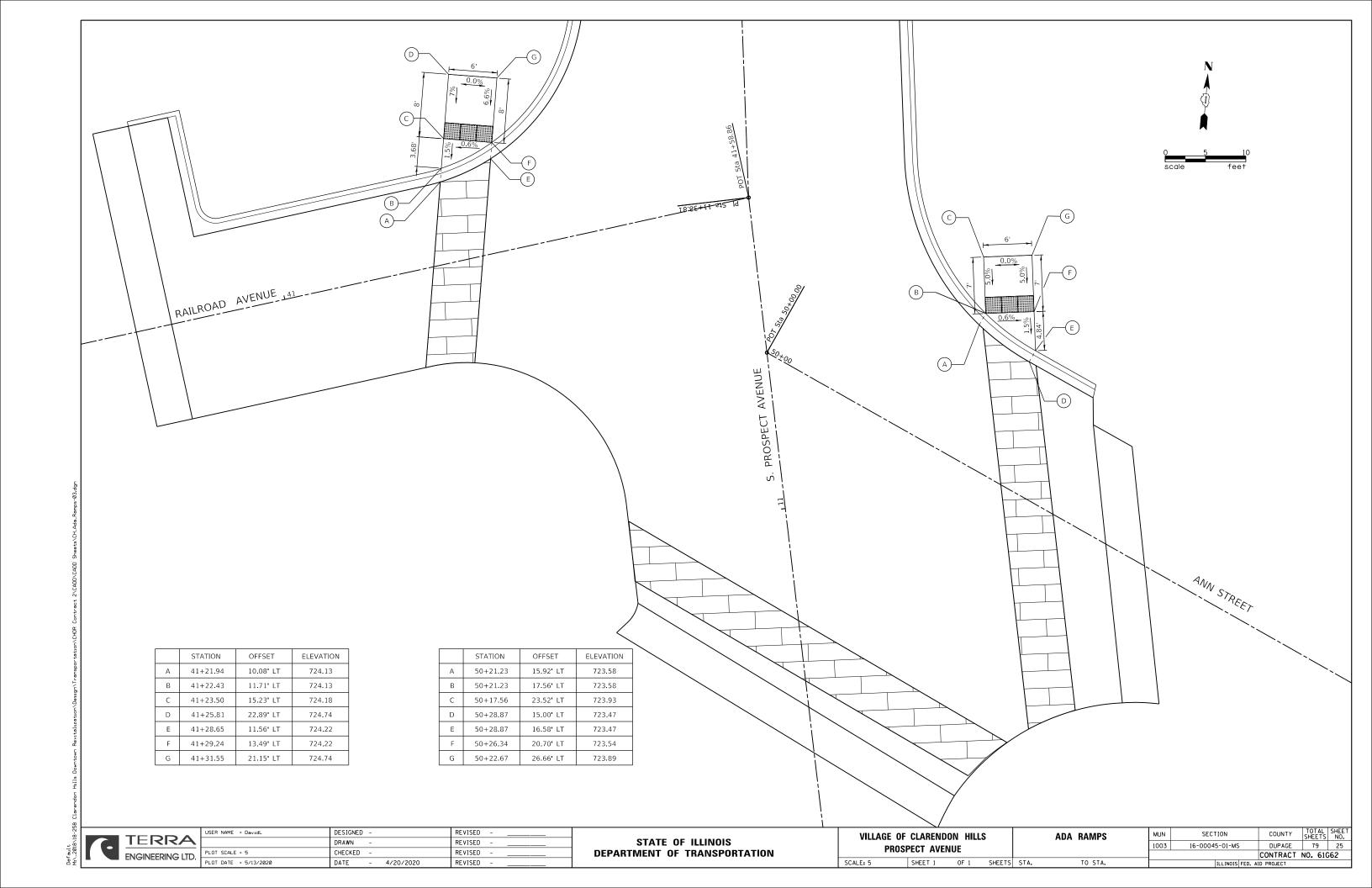


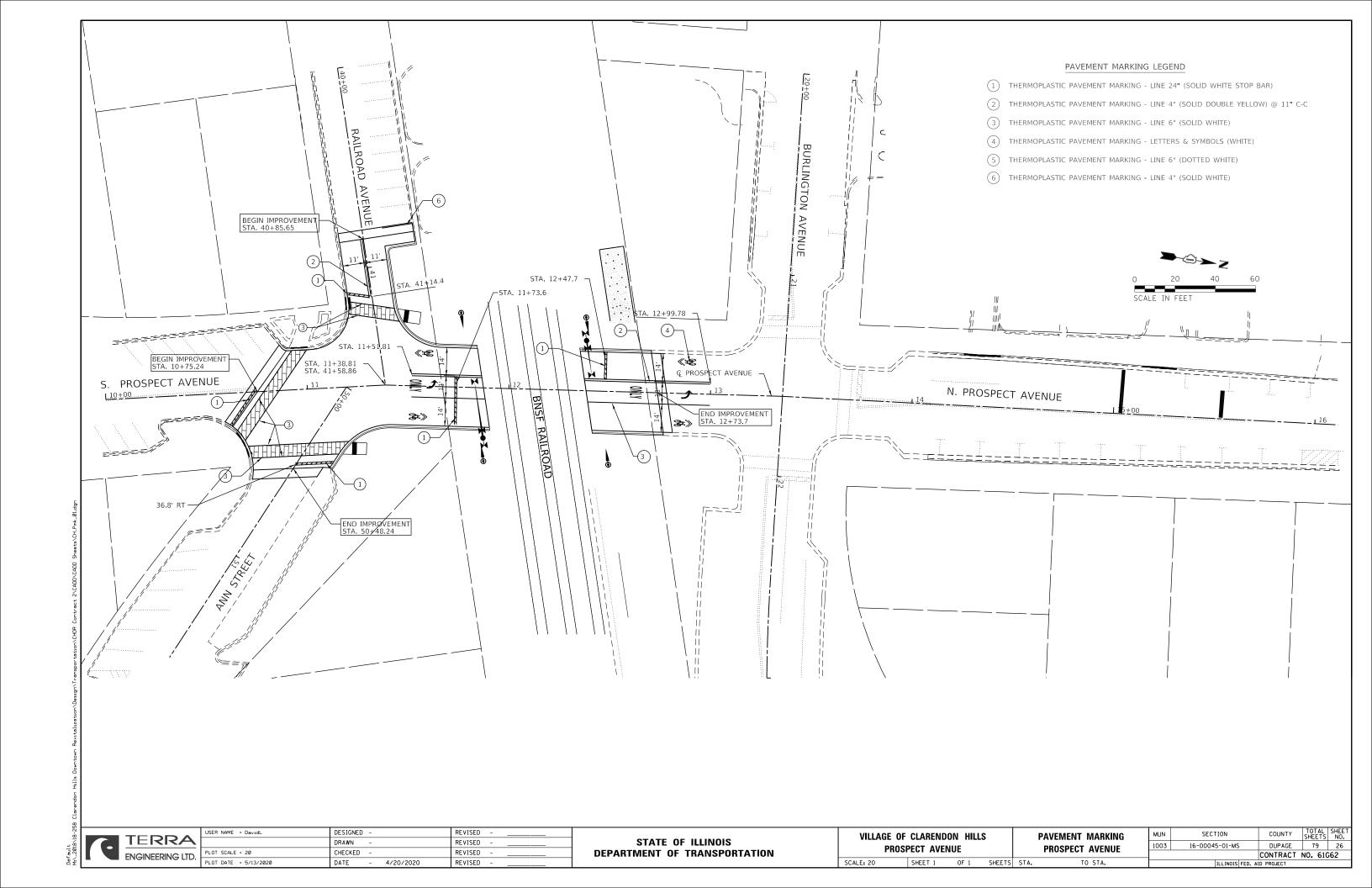


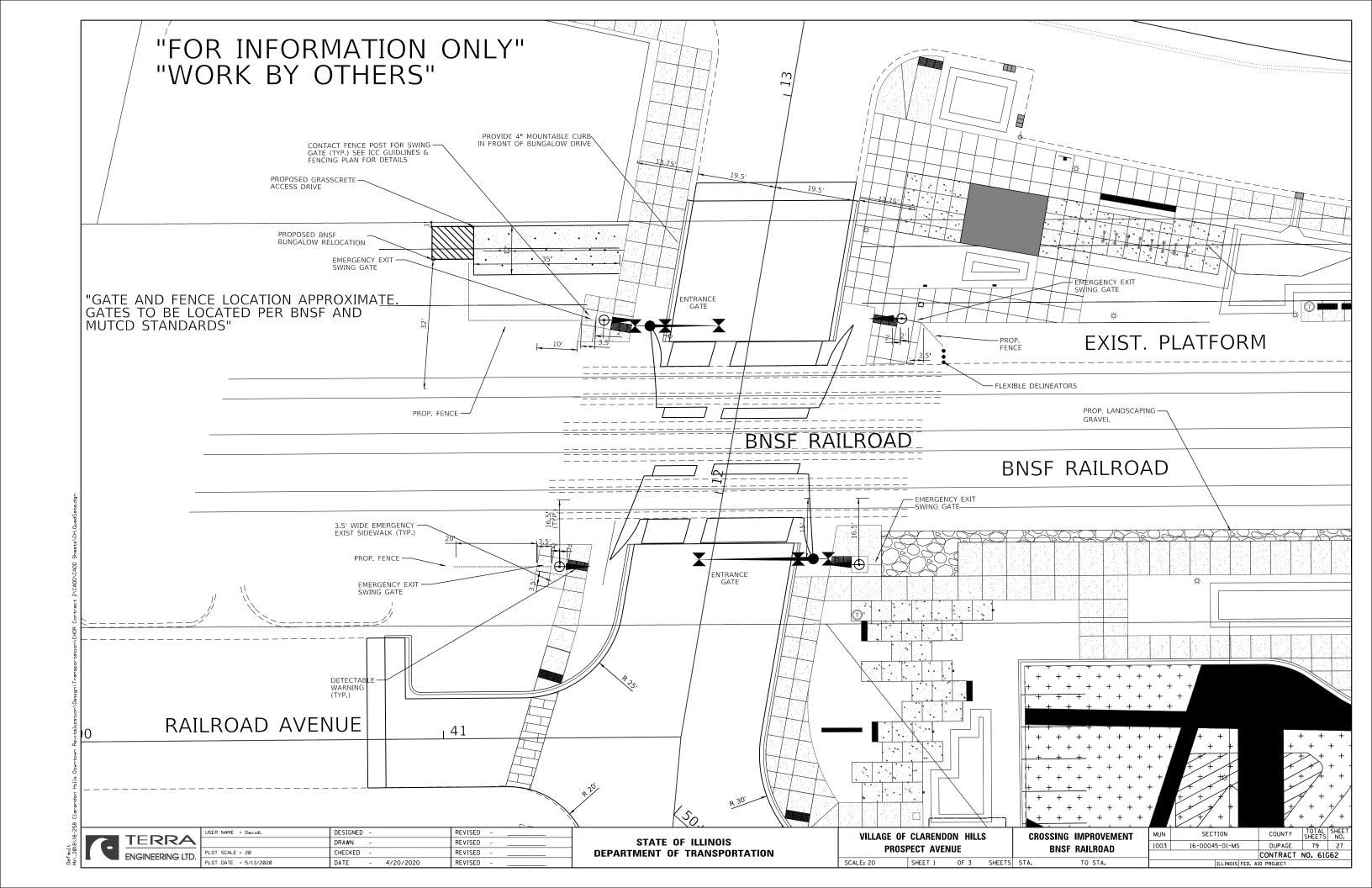


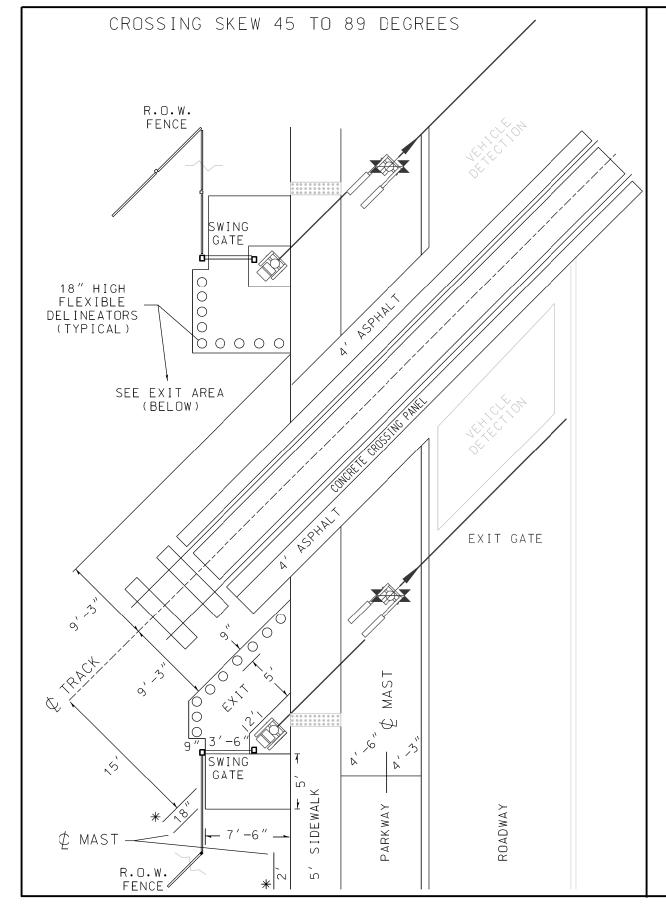


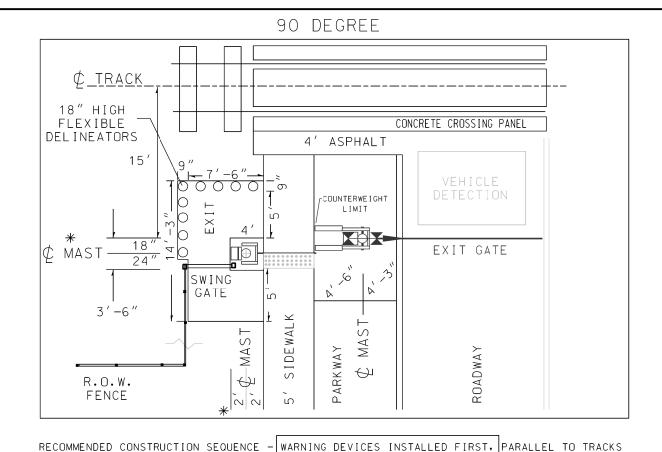












- 1. LOCATE ROADWAY GATE 15 FT FROM CENTERLINE OF TRACK
- 2. CONDUIT (2) TO ACCOMMODATE ROADWAY AND PEDESTRIAN GATES
- 3. LAYOUT SIDEWALK
 - A. ALLOW CLEARANCE FROM ROADWAY COUNTERWEIGHTS AND ARMS
 - B. 4'-6" CENTERLINE FOUNDATION TO END OF COUNTERWEIGHTS
 - C. 18" CENTERLINE FOUNDATION TO OUTER ARMS
- 4. LOCATE PEDESTRIAN GATE 16'-6" FROM CENTERLINE OF TRACK
 - A. ALLOW CLEARANCE FOR GATE ARM BRACKET
 - (24" FOUNDATION CENTERLINE TO SIDEWALK TYPICAL)
 - LOCATE BACK OF MECHANISM/DOOR 2' FROM FOUNDATION CENTERLINE
 - USE PEDESTRIAN GATE MECH WITHOUT COUNTERWEIGHT ARM, OR CUT FLUSH TO MOTOR HOUSING TO ELIMINATE CONFLICT WITH SWING GATE
 - INSTALL SONOTUBE FOR SWING GATE CONTACT POST TO ELIMINATE POTENTIAL DAMAGE TO SIGNAL CABLE DURING FENCE INSTALLATION
- 5. LAYOUT EXIT AREA; FRAME AND POUR SIDEWALK AND EXIT AREA
 - A. PROVIDE $3'-6'' \times 4'$ CA-6 "ISLAND"
 - B. * USE CENTERLINE OF PED GATE MAST TO LOCATE EXIT EDGES *
- INSTALL SWING GATE MINIMIZING GAPS TO PED. GATE. ENSURE GATE HOUSING OPENS
- INSTALL 18" DELINEATORS TRACK SIDE EXIT AREA (IN 9" PERIMETER EXTENSION)
- COMPLETE R/W FENCE AND CONNECTIONS TO SWING GATE
- ADJUST HINGES AND GATE CLOSER TO ALLOW PROPER OPERATION
- 10. CHECK 16'-6" ALONG PEDESTRIAN GATE FROM TRACK CENTERLINE FOR PARALLEL

"FOR INFORMATION ONLY" "WORK BY OTHERS"

PLAN VIEW

REVISION DATE: NOV. 1, 2012

ILLINOIS COMMERCE COMMISSION

DESIGN GUIDANCE PEDESTRIAN TREATMENTS HIGH SPEED RAIL - UP

PAGE 2 OF 2

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USER NAME = DavidL DESIGNED -REVISED DRAWN REVISED CHECKED -REVISED PLOT DATE = 5/13/2020 DATE - 4/20/2020 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

VILLAGE OF CLARENDON HILLS CROSSING IMPROVEMENT PROSPECT AVENUE TYPICAL STANDARDS SCALE: NTS SHEET 2 OF 3 SHEETS STA.

MUN SECTION COUNTY 1003 16-00045-01-MS DUPAGE 79 28 CONTRACT NO. 61G62

PEDESTRIAN VIEW AT EXIT GATE - TRAIN APPROACHING

CONCEPTUAL CROSS SECTION (NTS)

NOTES:

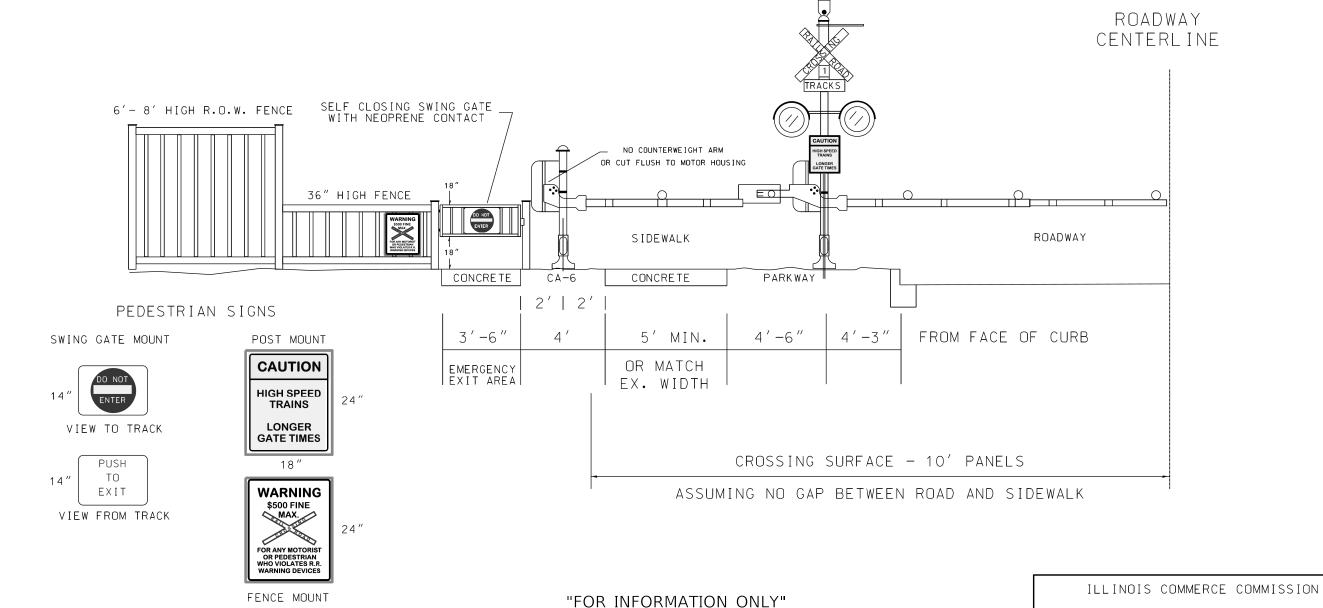
- 1. DESIGN TO COMPLY WITH MUTCD
- 2. ESCAPE AREA DESIGN- COMPLY WITH CHAPTER 4:

 "ACCESSIBLE ROUTES" OF ADA AND ABA GUIDELINES

 AMENDED AUGUST 5, 2005, OR LATEST REVISION
- 3. DETECTABLE WARNING TRUNCATED DOMES PER CHAPTER 7: "COMMUNICATION ELEMENTS AND FEATURES,"
 ADA AND ABA GUIDELINES

REVISION DATE: NOV. 1, 2012

4. *FINAL DIMENSIONS DETERMINED IN FIELD DUE TO VARIABILITY OF LOCATIONS *



TERRA ENGINEERING LTD.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

"WORK BY OTHERS"

VILLAGE OF CLARENDON HILLS
PROSPECT AVENUE

CROSSING IMPROVEMENT
TYPICAL STANDARDS

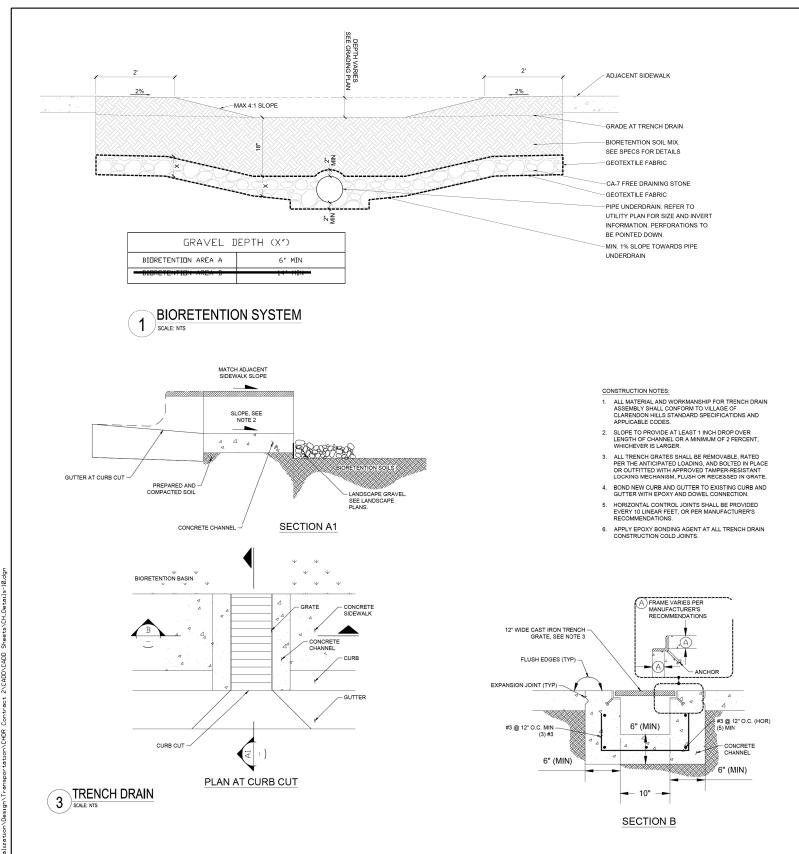
SCALE; NTS SHEET 3 OF 3 SHEETS STA. TO STA.

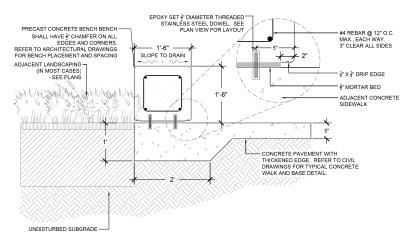
M:_2018\18-258 Clarendon Hills Do

PAGE 1 OF 2

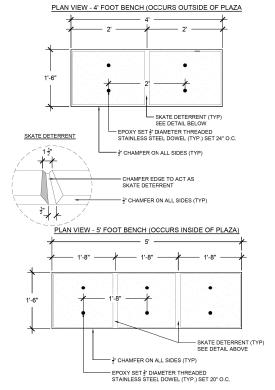
DESIGN GUIDANCE

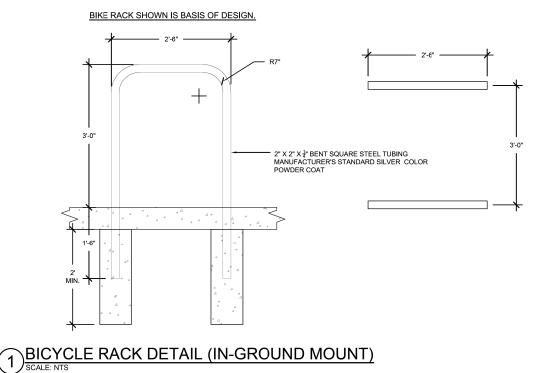
PEDESTRIAN TREATMENTS HIGH SPEED RAIL - UP





2 PRECAST CONCRETE BENCH







 USER NAME
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 REVISED

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 REVISED

 PLOT SCALE = NTS
 CHECKED
 REVISED

 PLOT DATE
 = 5/13/2020
 DATE
 4/20/2020
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VILLAGE OF CLARENDON HILLS
PROSPECT AVENUE

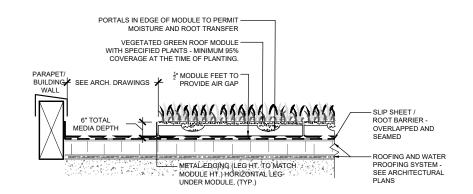
SCALE; NTS SHEET 1 OF 2 SHEETS STA. TO STA.

 MUN
 SECTION
 COUNTY SHEET'S NO.
 TOTAL SHEET'S NO.

 1003
 16-00045-01-MS
 DUPAGE
 79
 30

 CONTRACT NO. 61G62

 | ILLINDIS|FED. AID PROJECT



TYPICAL VEGETATED ROOF ASSEMBLY SECTION

- EROSION CONTROL BLANKET (TYP) OCCURS ONLY IN WETLAND TYPE PERENNIALS

30% OF SPECIFIED MIX SHALL BE 1 GALLON SIZE

70% OF SPECIFIED MIX SHALL BE 2" X 4" PLUG SIZE (PLANT IN GROUPS OF 3-5 AS SHOWN.

PERENNIAL PLUGS/PLANTS AT 12" O.C.

TRANSITION TO PLANTING SOIL BEYOND

LIMITS OF BIORETENTION SOIL. REFER TO CIVIL DRAWINGS FOR LIMITS

PRIOR TO INSTALLATION.

PLACE APPROXIMATELY (15) LARGER STONES, 24"-36" Ø. BEYOND STONE BED LIMITS. GROUP STONES TOGETHER
IN 2s AND 3s. CONTRACTOR TO FIELD PAINT PLACEMENT
OF STONES FOR REVIEW BY LANDSCAPE ARCHITECT

GREEN ROOF TRAY PLANT MIX GREEN ROOF NOTES

SEDUM ALBUM 'JELLY BEANS' SEDUM AIZOON 'IMMERGRUNCHEN' SEDUM HYBRIDIUM 'SIBERIAN GOLD' SEDUM SPURIUM 'GREEN MANTLE' SEDUM SPURIUM 'WOOD ROSE' SEDUM SPURIUM 'BRONZE BEAUTY'

- SEE ARCHITECTURAL DRAWINGS FOR ROOF PLAN DIMENSIONS AND DETAILS.
- OF ROOF MODULES NEEDED. LIMITS SHOWN ARE APPROXIMATE; CONTRACTOR SHALL CONFIRM PRIOR TO INSTALLATION.
- ALUMINUM EDGING SHALL BE INSTALLED AROUND PERIMETER OF ALL EXPOSED ROOF
- COORDINATE MODULES WITH ALL ROOFTOP ELEMENTS INCLUDING VENTS, RTU'S, BALLAST AND OTHER APPURTENANCES.
- CONTRACTOR SHALL OBSERVE ALL REQUIRED CLEARANCES BETWEEN ROOF ELEMENTS AND
- 6. COORDINATE PLANT MIX AND SPACING WITH GREEN ROOF TRAY MANUFACTURER.

LANDSCAPE GRAVEL, ±12" DEPTH (TYP) (SEE DETAIL 6 THIS SHEET FOR EXAMPLE)

SET OVER 80Z NEEDLE PUNCHED FILTER FABRIC AND COMPACTED SUBGRADE. WHERE LIMESTONE IS ADJACENT TO LANDSCAPE EDGING, EMBED STONE MINIMUM DEPTH 6".

VEGETATED ROOF ASSEMBLY INFORMATION

APPROXIMATE AREA: 3' X 3'

ROCK SIZE DISTRIBUTION

8"-12": 80% 12"-18": 20%

TRENCH DRAIN

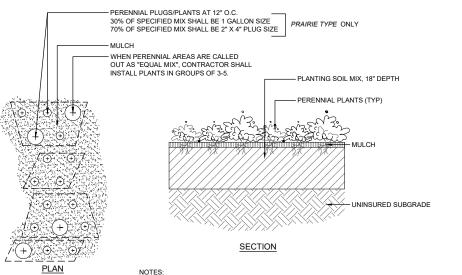
SEE CIVIL DRAWINGS

SEE CIVIL DRAWINGS

TRENCH DRAIN - SEE CIVIL DRAWINGS

- EDGES OF BED SHALL HAVE IRREGULAR SHAPE - CONTRACTOR SHALL FIELD PAINT LAYOUT FOR REVIEW BY LANDSCAPE ARCHITECT PRIOR

TO INSTALLATION OF STONE



- PRAIRIE TYPE PERENNIALS SHALL BE 30/70 MIX AS DETAILED ABOVE.

 ORNAMENTAL TYPE PERENNIALS SHALL BE 100% 1 GALLON SIZE @ 12" O.C. HOWEVER, THEY SHALL STILL BE PLANTED IN GROUPS OF 3-5 AS DETAILED ABOVE.
- ALL WETLAND TYPE PERENNIALS SHALL BE PLANTED ACCORDING TO DETAIL 4 THIS SHEET.

PERENNIAL PLANTING - PRAIRIE AND ORNAMENTAL TYPE

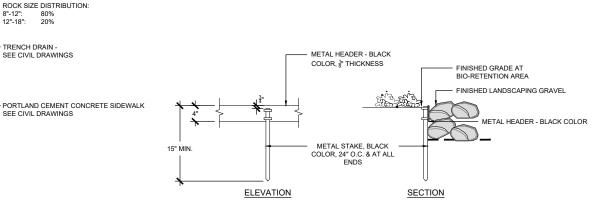




PERENNIAL PLANTS, WETLAND TYPE 12" O.C. SPACING 30% @ #1 CONTAINER

=			
Asclepias canadensis	Wild Columbine		
Babtisia australis	Blue Wild Indigo		
Bidens cernua	Nodding Bur Marigold		
Dalea purpurea	Purple Prairie Clover		
Deschamsia caespitosa	Tufted Hair Grass		
Rudbeckia hirta	Black Eyed Susan		
	Babtisia australis Bidens cernua Dalea purpurea Deschamsia caespitosa		

NOTE: SOME SPECIES MAY NOT BE AVAILABLE IN #1 CONTAINERS. CONTRACTOR SHALL PROVIDE NURSERY SOURCE LIST AND AVAILABLE SIZES AS PART OF SUBMITTAL PRIOR TO INSTALLATION.



LANDSCAPE EDGING



LANDSCAPING GRAVEL SHALL BE WEATHERED LIMESTONE AND GENERALLY MATCH THE COLORS (BUFFS, TANS, GRAY) AND SHAPE SHOWN IN THE PICTURE, REFER TO DIGITAL PDF FOR COLORS. THE SIZES OF THE STONES SHALL BE 8-36" IN DIAMETER, AS APPROVED BY THE ENGINEER. COLOR IMAGE WILL BE PROVIDED UPON REQUEST.

LANDSCAPING GRAVEL & WETLAND PERENNIAL PLANTING

EROSION CONTROL BLANKET

SECTION A

TERRA

	USER NAME = WLLIAMP	DESIGNED	_	SJL	REVISED		
<u> </u>		DRAWN	_	WJP	REVISED	_	
	PLOT SCALE = NTS	CHECKED	_	KLG	REVISED	_	
^	PLOT DATE = 5/22/2020	DATE	_	5/22/2020	REVISED	_	

LANDSCAPE (5)

FILTER FABRIC (TYP)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

VILLAGE OF LANDS(CLAREN CAPE DE				
SCALE: NTS	SHEET 2	OF 2	SHEETS	STA.	

OF	CLAREN	DON H	HILLS			MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DSC	CAPE DE	TAILS				1003	16-00045-01-MS	DUPAGE	79	31
000		IAILS						CONTRACT	VO. 610	62
	SHEET 2	OF 2	SHEETS	STA.	TO STA.		ILLINOIS FED. AI	D PROJECT		

Village of Clarendon Hills **Prospect Avenue** Building

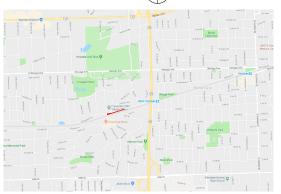
1 S Prospect Ave Streetscape & Outbound Shelter

Clarendon Hills, IL, 60514











SCHEDULE OF DRAWINGS

- GENERAL DRAWINGS LEGAT ARCHITECT
 A-001 TITLE SHEET
 A-011 CODE INFORMATION & SAFETY REFERENCE PLANS
 A-021 SYMBOLS AND PROJECT GENERAL NOTES
 A-031 BINSF REQUIREMENTS

- S-000 STRUCTURAL NOTES S-001 OVERALL PLAN S-101 SHELTER CANOPY PLANS S-301 CONCRETE DETAILS S-902 STEEL DETAILS S-901 3D DRAWINGS

AS001 OVERALL SITE PLAN
AS101 STREETSCAPE - SITE PLAN
AS102 METRA SIGNAGE AND WAYFINDING
AS103 METRA SIGNAGE AND WAYFINDING
AS104 METRA SIGNAGE AND WAYFINDING
A-101 SHELTER CANOPY FLOOR PLAN, ROOF PLAN
A-102 SHELTER CANOPY ELEVATIONS AND SECTIONS

A-102 SHELTER CANOPY ELEVATIONS AND SECTIONS
A-103 SHELTER CANOPY BOADD FORMED CONCRETE DETAILS
A-301 BUILDING SECTIONS
A-501 EXTERIOR DETAILS
A-502 EXTERIOR DETAILS
A-503 EXTERIOR DETAILS
A-504 EXTERIOR DETAILS
A-504 INTERIOR DETAILS
A-501 DOOR AND FRAME DETAILS
A-501 DOOR AND FRAME DETAILS

PLUMBING DRAWINGS - dbHMS

ES000 ELECTRICAL SYMBOLS, NOTES & ABBREVIATIONS ES100 ELECTRICAL SITE PLAN ES101 FLOOR PLANS - ELECTRICAL

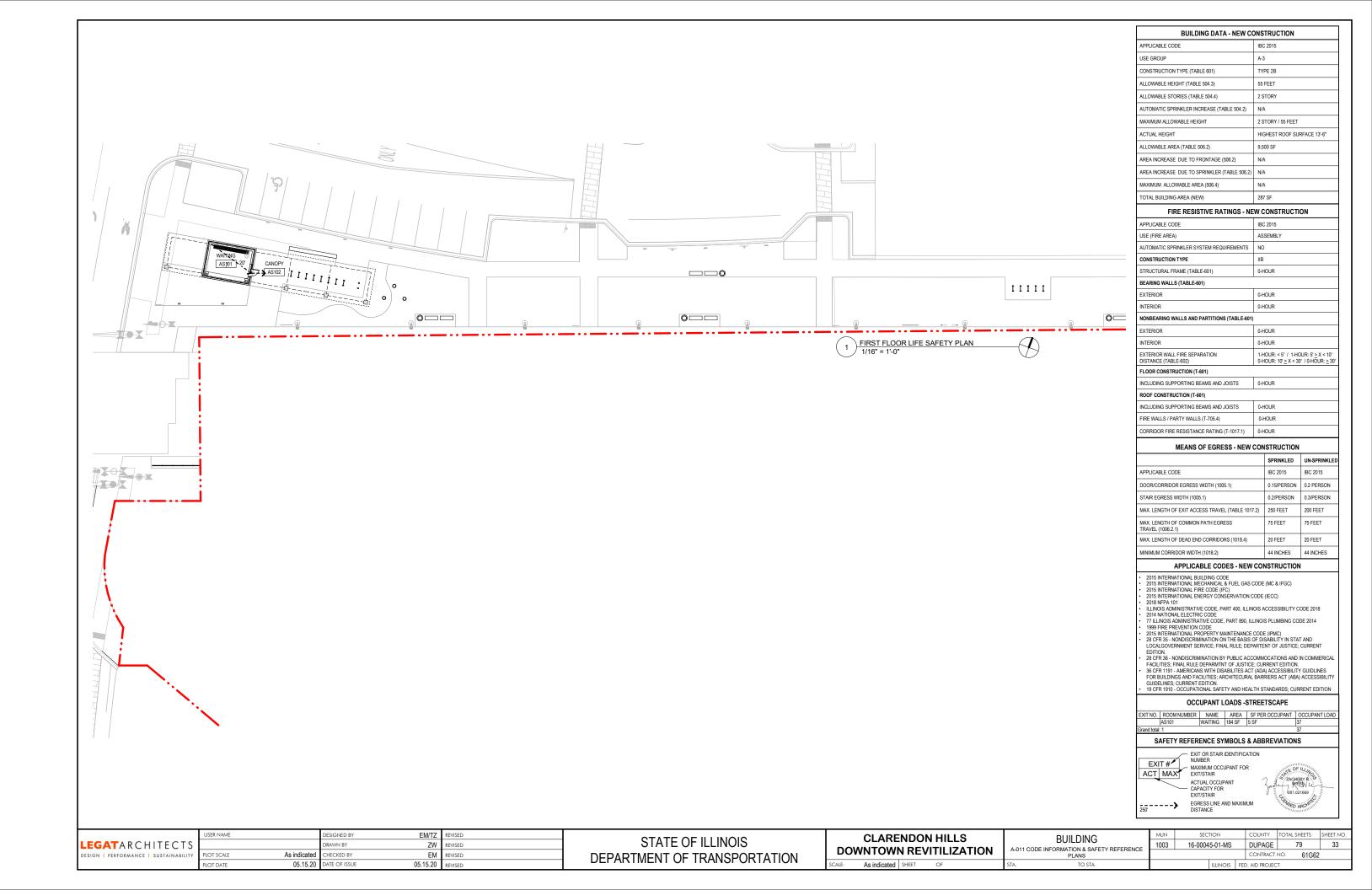
ES200 LIGHTING SITE PLAN ES400 ELECTRICAL RISER DIAGRAMS

ESSU0 ELECTRICAL RISER DIAGRAMS
ESSU0 ELECTRICAL SCHEDULES - POWERED EQUIPMENT
ESS10 ELECTRICAL SCHEDULES
ES600 PHOTOMETRIC CALCULATION

TS000 TECHNOLOGY SYMBOLS, NOTES & ABBREVIATIONS

15000 TECHNOLOGY STRIBDLS, NOTES & ABBREVIATION TS100 TECHNOLOGY STEP PLAN TS101 FLOOR PLANS - TECHNOLOGY TS800 TECHNOLOGY DETAILS - STRUCTURED CABLING TS601 TECHNOLOGY DETAILS - STRUCTURED CABLING

	USER NAME	DESIGNED BY EM/TZ	REVISED	07475 05 11 1 14 010	CLARENDON HILLS	DI III DINC	MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LEGATARCHITECTS		DRAWN BY TZ	REVISED	STATE OF ILLINOIS		BUILDING	1003	16-00045-01-MS	DUPAGE	79	32
DESIGN PERFORMANCE SUSTAINABILITY	PLOT SCALE As indicated	CHECKED BY EM	REVISED	DEPARTMENT OF TRANSPORTATION	DOWNTOWN REVITILIZATION	A-001 INDEX			CONTRACT	NO. 61G	.62
	PLOT DATE 05.15.20	DATE OF ISSUE 05.15.20	PEVISED	1 DELAKTIMENT OF TRANSPORTATION	SCALE: As indicated SHEET OF	STA TO STA		ILLINOIS	FED. AID PROJEC	Т	



ABBREVIATIONS			ABBREVIATIONS	ABBREVIATIONS			
ABB	DESCRIPTION	ABB	DESCRIPTION	ABB	DESCRIPTION		
A/C	AIR CONDITIONING	FLR	FLOOR	PSM	MANUAL PROJECTION SCREEN		
ABV	ABOVE	FOF	FACE OF FOUNDATION	PT	PORCELAIN TILE		
ACM	ARCHTECTURAL CONCRETE ALUMINUM COMPOSITE MATERIAL	FOM	FACE OF MASONRY FACE OF STUD	PTB PTD	PORCELAIN TILE BASE PAPER TOWEL DISPENSER		
ACT	ACOUSTIC CEILING TILE	FOW	FACE OF WALL	PTD	PAINTED		
ADA	AMERICANS WITH DISABILITIES ACT	FT	FOOT/FEET	PTF	PORCELAIN TILE FLOOR		
ADJ ADO	ADJACENT AUTOMATIC DOOR OPENER	GA GALV	GAUGE GALVANIZED	PTST	PORCELAIN TILE STAIR TREAD PORCELAIN TILETACTILE WARNING STRI		
ADOP	AUTOMATIC DOOR OPENER ON	GALV	GAS METER AND REGULATOR	PTW	PORCELAIN TILE WALL		
-	PEDESTAL	GC	GENERAL CONTRACTOR	PVC	POLYVINYL CHLORIDE		
AEC AED	ARCHITECTURALLY EXPOSED CONCRETE AUTOMATED EXTERNAL DEFIBRILLATOR	GL	GLASS	Q	QUAD POWER OUTLET		
AESS	ARCHITECTURALLY EXPOSED	GL BLK GLZ	GLASS BLOCK GLAZING	QT QTY	QUARRY TILE QUANTITY		
455	STRUCTURAL STEEL	GRND	GROUND	R	RISER		
AFF AHU	ABOVE FINISHED FLOOR AIR HANDLING UNIT	GWB	GYPSUM WALL BOARD	RAD	RADIUS		
AIB	AIR INFILTRATION BARRIER	GYP HB	GYPSUM HOSE BIBB	RAL RBST	ROOF LADDER RUBBER STAIR TREAD		
ALT	ALTERNATE	HD	ELECTRIC HAND DRYER	RD	ROOF DRAIN		
ALUM / AL ANOD	ALUMINUM ANODIZED	HDS	HIGH DENSITY STORAGE	REF	REFERENCE / REFER TO		
AOR	AREA OF REFUGE	HDWR HG	HARDWARE HALF GLASS DOOR	REF REINF	REFRIDGERATOR REINFORCED		
AP	ACCESS PANEL	HG-2	HALF GLASS DOOR PAIR	REQD	REQUIRED		
APPROX ARA	APPROXIMATELY AREA OF RESCUE ASSISTANCE	HM	HOLLOW METAL	RES	RESINOUS FLOORING		
ARCH	ARCHITECTURAL	HORIZ	HORIZONTAL HIGH POINT	RESB REV	RESINOUS INTEGRAL BASE REVISION		
AS	ACOUSTICAL SEALANT	HPC	HIGH PERFORMANCE COATING	REV	RUBBER FLOOR		
ASH	ADJUSTABLE SHOWER HEAD	HR	HOUR	RFT	RUBBER FLOOR TILE		
AWP B	ACOUSTIC WALL PANEL BASE CABINET	HT	HEIGHT	RM	ROOM		
B/	BOTTOM OF	HVAC	HEATING, VENTILATION, AIR CONDITIONING	RO	ROUGH OPENING RIGHT OF WAY		
BBT	BIO-BASED TILE	HWH	HOT WATER HEATER	RP	RESIN PANEL		
BD BF	BOARD BOTTLE FILLER	ID	INSIDE DIAMETER	RSE	ROLLER SHADE - MOTORIZED		
BF BLK	BLOCKING	IFH IN	INFRARED HEATER INCH	RSES	SKYLIGHT ROLLER SHADE - MOTORIZED		
ВО	BY OWNER	INFO	INFORMATION	RSL RSR	ROLLER SHADE LEFT CONTROL ROLLER SHADE RIGHT CONTROL		
BRZ	BRONZE	INSUL	INSULATION	RT	RESILIENT TRANSITION		
BS BSMT	BOTH SIDES BASEMENT	INT	INTERIOR DAINT OVCTEM	RTU	ROOF TOP UNIT		
CB	CATCH BASIN	JC JC	INTERIOR PAINT SYSTEM JANITOR'S CLOSET	RUBR	RUBBER SHOWER CURTAIN		
CD	CORNICE DRAIN	JT	JOINT	SD	SOAP DISPENSER		
CG	CORNER GUARD	KS	KNEE SPACE	SECT	SECTION		
CJ	CONTROL JOINT CENTER LINE	LAM	LAMINATED LAVATORY	SHT	SHEET		
CLG	CEILING	LIN	LINOLEUM	SIM	SIMILAR SANITARY NAPKIN DISPOSAL		
CLR	CLEAR(ANCE)	LP	LOW POINT	SNV	SANITARY NAPKIN VENDOR		
CMU	CONCRETE MASONRY UNIT	LTL	LINTEL	SPEC	SPECIFICATION		
CNTR	COUNTER CLEAN OUT	LVR	LOUVER	SPM	SINGLE PLY MEMBRANE		
COL	COLUMN	M	LUXURY VINYL TILE MIRROR	SQ SS/ST	SQUARE STAINLESS STEEL		
CONC	CONCRETE	MAT'L	MATERIAL	STL	STAINLESS STELL		
CONST	CONSTRUCTION	MAX	MAXIMUM	SSF	SOLID SURFACE		
CONTR	CONTINUOUS	MB#	MARKERBOARD (#DENOTES WIDTH, REFER TO INTERIOR ELEVATIONS FOR	SSG	SILICONE STRUCTURAL GLAZING SEALANT TAPE		
CORR	CORRIDOR		MOUNTING HEIGHTS	STC	SOUND TRANSMISSION COEFFICIENT		
CP	CENTER POINT	MCM	METAL COMPOSITION MATERIAL	STD	STANDARD		
CPTT	CARPET (BROADLOOM) CARPET TILE	MD MDF	MASONRY DIMENSION MEDIUM DENSITY FIBERBOARD	STL	STEEL		
CR	CARD READER	MECH	MECHANICAL	STOR STRUCT	STORAGE STRUCTURAL		
CT	CERAMIC TILE	MED	MEDIUM	STT	STONE THRESHOLD		
CTB	CERAMIC TILE BASE CERAMIC TILE FLOOR	MEZZ MFR /	MEZZANINE MANUFACTURER	SUSP	SUSPENDED		
CTW	CERAMIC TILE FLOOR	MANUF	WATER	SV	SHEET VINYL TREAD		
D	DATA OUTLET	MH	MANHOLE	T	TALL STORAGE CABINET		
DIA	DIAMETER	MIN	MINIMUM / MINUTE MISCELLANEOUS	T/	TOP OF		
DIAG	DIAGONAL DIMENSION	ML	MATCH LINE	TB#	TACKBOARD (# DENOTES WIDTH; REFER TO INTERIOR ELEVATIONS FOR		
DLO	DAYLITE OPENING	MO	MASONRY OPENING		MOUNTING HEIGHTS)		
DN	DOWN	MP MST	METAL PANEL MOSAIC TILE	TBR	TOWEL BAR		
DR DS	DOOR DOWNSPOUT	MSTB	MOSAIC TILE MOSAIC TILE BASE	TC TD	TOILET COMPARTMENT TRENCH DRAIN		
DW	DOWNSPOUT DOMESTIC WATER	MT	METAL TRANSITION	TEL	TELEPHONE		
DWG	DRAWING	MTD	MOUNTED	TFF	TOP OF FINISH FLOOR		
EA	EACH EXPOSED CONSTRUCTION	MTL	METAL MECHANICAL UNIT	THK TPO	THICK THERMOPLASTIC OLEFIN		
EC EF	EXPOSED CONSTRUCTION EACH FACE	MWL	METAL WARDROBE LOCKER	TRZ	TERRAZZO		
EH	EXHAUST HOOD	NC	NOISE CRITERIA	TS#	TACK STRIP (# DENOTES WIDTH; REFER		
EJ	EXPANSION JOINT	NIC NL	NOT IN CONTRACT NARROW LIGHT DOOR		TO INTERIOR ELEVATIONS FOR MOUNTING HEIGHTS)		
ELEC EMS	ELECTRICAL ENTRANCE MAT SYSTEMS	NLR NLR	NARROW LIGHT DOOR - RATED	TYP	TYPICAL		
EP	ELECTRICAL PANEL	NLR-2	NARROW LIGHT DOOR - RATED PAIR	UC	UNDER COUNTER		
EQ	EQUAL	NO	NUMBER	UNO VB	UNLESS NOTED OTHERWISE		
X / EXIST	EXISTING	NOM NTS	NOMINAL NOT TO SCALE	VB VB	VAPOR BARRIER VINYL BASE		
EXP EXR	EXPOSED EXISTING TO REMAIN	OA	OVERALL	VC	VOLUME CONTROL		
F	FLUSH DOOR	OC	ON CENTER	VCT	VINYL COMPOSITION TILE		
F/	FACE OF	OCD	OVERHEAD COILING DOOR OUTSIDE DIAMETER	VDB VERT	VISUAL DISPLAY BOARD VERTICAL		
FAAP	FIRE ALARM SYSTEM ANNUNCIATOR PANEL	OH	OPPOSITE HAND	VEST	VESTIBULE		
FAB	FABRIC	OPNG	OPENING	VIF	VERIFY IN FIELD		
FACP	FIRE ALARM CONTROL PANEL	OPP	OPPOSITE OW POOF PRAIN	VP VT	VENT PIPE		
FAP-X	FABRIC WRAPPED ACOUSTIC PANEL - (X = THICKNESS OF THE PANEL)	ORD	OVERFLOW ROOF DRAIN ORIENTED STRAND BOARD	VWC	VINYL TILE VINYL WALL COVERING		
FB	FACE BRICK	OSD	OPEN SITE DRAIN	W	WALL CABINET		
FBN	FLIP BENCH	PART	PARTITION	W/	WITH		
FBO	FURNISHED BY OWNER	PATT	PATTERN	W/O	WITHOUT		
FCO FD	FLOOR CLEAN OUT FLOOR DRAIN	PC PCO	PRECAST CONCRETE POLISHED CONCRETE	WCO	WALL CLEAN OUT WOOD		
FE	FIRE EXTINGUISHER	PL	PROPERTY LINE	WM	WALKOFF MAT		
FEC	FIRE EXTINGUISHER CABINET	PLAM	PLASTIC LAMINATE	WP	WATERPROOF		
FECB	FIRE EXTINGUISHER, CABINET AND	PLWD	PLYWOOD	WPNL	WOOD PANEL		
FF	BLANKET FACTORY FINISH	PNT	PAINT	WPT	WORK POINT WELDED WIRE FABRIC		
FG	FULL GLASS DOOR	PR PREFAB	PAIR PREFABRICATED	YCO	YARD CLEAN OUT		
	FULL GLASS DOOR - PAIR		POUNDS PER SQUARE FOOT				

ISFR NAME

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GENERAL NOTES

- ALL WORK SHALL BE COMPLIANT WITH THE CODES, ORDINANCES, AND REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION OVER THE PROJECT LOCATION.
- THE TRADE CONTRACTORS' PERSONNEL SHALL NOT BE ALLOWED ON THE PROJECT SITE WITHOUT COMPLYING WITH THE OWNER'S SECURITY PROTOCOLS.
- WHERE CONFLICTS EXIST WITHIN OR BETWEEN PARTS OF THE CONTRACT DOCUMENTS, OR WHERE QUINTLICE SLIST WITHIN OR BE INVENTED FARTS OF THE CONTRACT DOCUMENTS, ON BETWEEN THE CONTRACT DOCUMENTS AND APPLICABLE STANDARDS, CODES, ORDINANCES, AND REGULATIONS THE MORE STRINGSHOT OR HIGH QUALITY OR GREATER QUALITY REQUIREMENT(S). SHALL APPLY, LARGE-SCALE DRAWINGS TAKE PRECEDENCE OVER SMALL-SCALE DRAWINGS. FIGURED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS; AND NOTED MATERIALS TAKE PRECEDENCE OVER GRAPHIC REPRESENTATIONS.
- THE CONTRACT DOCUMENTS IDENTIFY THE MINIMUM AMOUNT OF WORK REQUIRED. TRADE CONTRACTORS SHALL PROVIDE THE EXTENT OF WORK NECESSARY FOR A COMPLETE INSTALLATION.
- REFER TO THE PROJECT SPECIFICATIONS FOR PRODUCTS, MATERIALS, AND PROCEDURES NOT IDENTIFIED ON THE CONTRACT DRAWINGS.
- THE ACTUAL AREA(S) OF WORK SHALL BE KEPT TO THE MINIMUM REQUIRED TO PROPERLY EXECUTE THE CONTRACT REQUIREMENTS. EXISTING DIMENSIONS AND HATCHED AREAS INDICATED ON CONTRACT DOCUMENTS ARE FOR GENERAL REFERENCE AND BIDDING PURPOSES
- PRIOR TO BIDDING. THE TRADE CONTRACTORS SHALL FIELD VERIFY THE EXTENT OF WORK REQUIRED TO PROPERLY EXECUTE THE CONTRACT REQUIREMENTS. ADDITIONAL WORK THAT IS REQUIRED. WAS VISIBLE. AND COULD HAVE BEEN IDENTIFIED DURING BIDDING SHALL BE COMPLETED BY THE RESPONSIBLE TRADE CONTRACTOR(S) AT NO ADDITIONAL COST TO THE
- THE TRADE CONTRACTORS SHALL BE FAMILIAR WITH THE EXISTING CONDITIONS AND NOTIFY TH ARCHITECT OR CONSTRUCTION MANGER OF ANY CONFLICTS WITH THE CONSTRUCTION DOCUMENTS PRIOR TO PREPARING SUBMITTALS OR BEGINNING ANY WORK.
- THE TRADE CONTRACTORS SHALL PROVIDE ALL TEMPORARY CONSTRUCTION AND/OR SHORING REQUIRED TO PROPERLY EXECUTE THE REQUIREMENTS OF THEIR CONTRACT
- ALL EXTERIOR OPENINGS SHALL BE SECURED AT ALL TIMES WHEN WORK IS NOT BEING ALL EXTERIOR OPENINGS SHALL BE SECURED AT ALL TIMES WHEN WORK IS NOT BEING PERFORMED. THE TRADE CONTRACTORS SHALL NOT REMOVE EXISTING DOORS, FRAMES, WINDOWS, ETC. UNTIL REPLACEMENTS ARE ONSITE AND READY FOR INSTALLATION. IF INSTALLATION OF DOORS, FRAMES, WINDOWS, ETC. CANNOT BE COMPLETED BY THE END OF THE WORK DAY, THE RESPONSIBLE TRADE CONTRACTORS SHALL PROVIDE TEMPORARY WEATHERPROOF CONSTRUCTION AS REQUIRED TO SECURE THE BUILDING TO THE SATISFACTION OF THE OWNER AND RESTORE AFFECTED SURFACES TO THEIR ORIGINAL CONDITION.
- PATCHING, REPAIRING, AND REFINISHING WORK SHALL BE PERFORMED BY THOSE REGULARLY INVOLVED IN THAT TRADE AND SHALL MATCH THE EXISTING ADJACENT CONSTRUCTION AS CLOSELY AS POSSIBLE IN MATERIAL, FINISH, COLOR, TEXTURE AND SHEEN. REFER TO THE
- . TRADE CONTRACTORS SHALL PROTECT THEIR WORK AND EXISTING CONSTRUCTION, FINISHES, AND EQUIPMENT TO REMAIN TO PREVENT DAMAGE. ANY WORK AND/OR EXISTING FINISHES TO REMAIN DAMAGED DURING THE REMOVAL OF EXISTING WORK OR THE INSTALLATION OF NEW WORK SHALL BE REPAIRED, REPLACED, AND REFINISHED BY THE RESPONSIBLE TRADE OR TO MATCH THE ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE OWNER AND ENGINEER.
- 3. THE ARCHITECT SHALL REVIEW AND APPROVE LOCATIONS FOR ALL JUNCTION BOXES AND RACEWAYS PRIOR TO INSTALLATION OF WIRING / CABLING.
- 4. EXISTING SITE FEATURES, MATERIALS, AMENITIES, LANDSCAPING, ETC. DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE RESTORED, REPAIRED, OR REPLACED BY THE RESPONSIBLE TRADE CONTRACTOR(S) AT NO ADDITIONAL COST TO THE OWNER AND TO THE SATISFACTION OF THE OWNER AND ENGINEER.
- CONTRACTOR SHALL COORDINATE THE WORK WITH ALL PARTIES INVOLVED SO THAT THE CONSTRUCTION CAN PROCEED SMOOTHLY, WITHOUT TRADE INTERFERENCE OR WASTE OF TIME
- SUBSTITUTIONS: PRODUCTS PROPOSED FOR SUBSTITUTION THAT DO NOT MEET OR EXCEED ALL ASPECTS OF THE PRODUCTS SPECIFIED WILL NOT BE CONSIDERED.
- I. SUBMITTALS: APPLY CONTRACTOR'S STAMP, SIGNED OR INITIALED CERTIFYING THAT REVIEW, APPROVAL, VERIFICATION OF PRODUCTS REQUIRED, FIELD DIMENSIONS, ADJACENT CONSTRUCTION WORK, AND COORDINATION OF INFORMATION IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE WORK AND CONTRACT DOCUMENTS.
- . MOCK-UP: BEFORE INSTALLING PORTIONS OF THE WORK WHERE MOCK-UPS ARE REQUIRED, CONSTRUCT MOCK-UPS IN LOCATION AND SIZE INDICATED FOR EACH FORM OF CONSTRUCTION AND FINISH REQUIRED TO COMPLY WITH THE FOLLOWING REQUIREMENTS, USING MATERIALS INDICATED FOR THE COMPLETED WORK. THE PURPOSE OF MOCK-UP IS TO DEMONSTRATE THE PROPOSED RANGE OF AESTHETIC EFFECTS AND WORKMANSHIP. ACCEPTED MOCK-UPS ESTABLISH THE STANDARD OF QUALITY THE ARCHITECT WILL USE TO JUDGE THE WORK. OBTAIN ARCHITECT'S APPROVAL OF MOCK-UPS BEFORE STARTING WORK, FABRICATION, OR CONSTRUCTION. ARCHITECT WILL ISSUE WRITTEN COMMENTS WITHIN SEVEN (7) WORKING DAYS OF INITIAL REVIEW AND EACH SUBSEQUENT FOLLOW UP REVIEW OF EACH MOCK-UP. WHERE OF INITIAL REVIEW AND EACH SUSPECIAL TO THE ATTEMPT OF PACH MICKASUP. WHERE MOCK-UP HAS BEEN ACCEPTED BY ARCHITECT AND IS SPECIFIED IN PRODUCT SPECIFICATION SECTIONS TO BE REMOVED, PROTECT MOCK-UP THROUGHOUT CONSTRUCTION, REMOVE MOCK UP AND CLEAR AREA WHEN DIRECTED TO DO SO BY ARCHITECT.
- MANUFACTURERS' FIELD SERVICES: WHEN SPECIFICD IN INDIVIDUAL SPECIFICATION SEC REQUIRE MATERIAL OR PRODUCT SUPPLIERS OR MANUFACTURERS TO PROVIDE QUALIFI STAFF PERSONNEL TO OBSERVE SITE CONDITIONS, CONDITIONS OF SURFACES AND INSTALLATION, QUALITY OF WORKMANSHIP, START-UP OF EQUIPMENT, TEST, ADJUST AND BALANCE OF EQUIPMENT AS APPLICABLE, AND TO INITIATE INSTRUCTIONS WHEN NECESSARY REPORT OBSERVATIONS AND SITE DECISIONS OR INSTRUCTIONS GIVEN TO APPLICATORS. ORINSTALLERS THAT ARE SUPPLEMENTAL OR CONTRARY TO MANUFACTURERS' WRITTEN
- . USE OF PRODUCTS HAVING ANY OF THE FOLLOWING CHARACTERISTICS IS NOT PERMITTED: MADE USING OR CONTAINING CFC'S OR HCFC'S AND MATERIALS CONTAINING LEAD, CADMIUM, OF
- . COODINATE SCHEDULING, SUBMITTALS, AND WORK OF THE VARIOUS SECTIONS OF THE PROJECT MANUAL TO ENSURE EFFICIENT AND ORDERLY SEQUENCE OF INSTALLATION OF INTERDEPENDENT CONSTRUCTION ELEMENTS, WITH PROVISIONS FOR ACCOMMODATING ITEMS INSTALLED LATER. NOTIFY AFFECTED UTILITY COMPANIES AND COMPLY WITH THEIR REQUIREMENTS. VERHEY THAT UTILITY REQUIREMENTS AND CHARACTERISTICS OF NEW OPERATING EQUIPMENT ARE COMPATIBLE WITH BUILDING UTILITIES. COORDINATE WORK OF OPERATING EQUIPMENT ARE COMPATIBLE WITH BUILDING UTILITIES. COORDINATE WORK OF VARIOUS SECTIONS HAVING INTERDEPENDENT RESPONSIBILITIES FOR INSTALLING, CONNECTII TO, AND PLACING IN SERVICE, SUCH EQUIPMENT. COORDINATE SPACE REQUIREMENTS, SUPPORTS, AND INSTALLATION OF MECHANICAL AND ELECTRICAL WORK THAT ARE INDICATED DIAGRAMMATICALLY ON DRAWINGS. FOLIOW ROUTING INDICATED FOR PIPES, DUCTS, AND CONDUIT, AS CLOSELY AS PRACTICABLE; PLACE RUNS PARALLEL WITH LINES OF BUILDING. UTILIZE SPACES EFFICIENTLY TO MAXIMIZE ACCESSIBILITY FOR OTHER INSTALLATIONS, FOR MAINTENANCE, AND FOR REPAIRS. IN FINISHED AREAS EXCEPT AS OTHERWISE INDICATED, CONCEAL PIPES, DUCTS, AND WIRING WITHIN THE CONSTRUCTION. COORDINATE LOCATIONS OF FIXTURES AND OUTLETS WITH FINISH ELEMENTS.

25. CLOSEOUT DOCUMENTATION SUBMITTAL: FINAL CLOSEOUT DOCUMENTATION SHALL BE SUBMITTED IN ELECTRONIC .PDF FORMAT AND BURNED TO COMPACT DISKS WHICH UTILIZES CUSTOMIZABLE DOCUMENT MANAGEMENT VIEWING SYSTEM. ALL CLOSEOUT DOCUMENTS SHALL BE CREATED OR SCANNED TO BE COMPATIBLE WITH THE ELECTRONIC FORM IDENTIFIED. INCLUDE SCANNED COPIES OF WARRANTIES AND BONDS WITH ELECTRONIC SUBMITTAL. THE FOLLOWING DOCUMENTS SHALL BE THE MINIMUM INCLUDED ON THE FINAL CLOSEOUT DOCUMENTATION CD.

- CHAPTER 1 PROJECT DIRECTORY: DIRECTORY, LISTING NAMES, ADDRESSES, TELEPHONE NUMBERS, EMAIL ADDRESSES, AND WEB SITE ADDRESSES OF ARCHITECT, ENGINEER(S), CONSTRUCTION MANAGER, TRADE CONTRACTOR(S), SUB-CONTRACTORS, AND MAJOR
- EQUIPMENT SUPPLIERS.

 HAPTER 2 CONTRACT DOCUMENTS: ISSUED FOR BIDDING DRAWINGS, ISSUED FOR BIDDING PROJECT MANUAL AND SPECIFICATIONS, ADDENDA, ISSUED FOR BIDDING PROJECT MANUAL AND SPECIFICATIONS, ADDENDA, ISSUED FOR CONSTRUCTION DRAWINGS, ISSUED FOR CONSTRUCTION PROJECT MANUAL AND
- CHAPTER 3 SUBMITTALS:APPROVED SUBMITTALS FOR REVIEW. REVIEWED SUBMITTALS FOR INFORMATION, DOCUMENTATION OF SELECTED FINISH SAMPLES, MANUFACTURER'S NSTRUCTIONS FOR ASSEMBLY INSTAULATION ADJUSTING AND MAINTENANCE CHAPTER 4 - RECORD DOCUMENTS: FIELD SKETCHES. AS-BUILT DRAWINGS. AS-BUILT CHAPTER 4 - RECORD DOCUMENTS: HELD SKELCHES, AS-BUILT DRAWINGS, AS-BUILT PROJECT MANUAL AND SECIFICATIONS, CHANGE ORDERS AND OTHER DOCUMENTED MODIFICATIONS TO THE CONTRACT. CHAPTER 5 - OPERATIONS & MAINTENANCE DATA: CHAPTER 6 - TRAINING VIDEOS: CHAPTER 6 - TRAINING VIDEOS:

- TRAINING: PROVIDE AN ON-SITE TRAINING CONFERENCE WHICH INCLUDES REPRESENTATIVES FROM THE OWNER, ARCHITECT, ENGINEERS, AND GENERAL CONTRACTOR TO PRESENT THE COMPLETED ELECTRONIC CLOSEOUT DOCUMENTATION SUBMITTAL AND INSTRUCT AL COMPLETED LEEU TONION CLOSSED DOCUMENTATION SOBRIT THE ANAITON FORD AT A ATTENDESS ON HOW TO INTERFACE WITH THE SOFTWARE AND ITS CONTENT. TRAINING OF OWNER PERSONNEL IN OPERATION AND MAINTENANCE IS REQUIRED FOR: HIVAC SYSTEMS AN EQUIPMENT, FULMBING EQUIPMENT, ELECTRICAL SYSTEMS AND EQUIPMENT, ITEMS SPECIFIE IN INDIVIDUAL PRODUCT SECTIONS. TRAINING TO BE COMPLETED NOT LESS THAN 2 WEEKS PRIOR TO SUBSTANTIAL COMPLETION.
- . PROJECT RECORD DOCUMENTS: MAINTAIN ON SITE ONE SET OF THE FOLLOWING RECORD DOCUMENTS; RECORD ACTUAL REVISIONS TO THE WORK: DRAWINGS, SPECIFICATIONS ADDENDA, AND CHANGE ORDERS AND OTHER MODIFICATIONS TO THE CONTRACT, LEGIBLY MARK EACH ITEM TO RECORD ACTUAL CONSTRUCTION INCLUDING - MEASURED HORIZONTAL AND VERTICAL LOCATIONS OF UNDERGROUND UTILITIES AND APPURTENANCES, REFERENCED TO PERMANENT SURFACE IMPROVEMENTS. MEASURED LOCATIONS OF INTERNAL UTILITIES AN PPURTENANCES CONCEALED IN CONSTRUCTION, REFERENCED TO VISIBLE AND ACCESSI
 FEATURES OF THE WORK. FIELD CHANGES OF DIMENSION AND DETAIL. DETAILS NOT ON
- 8. OPERATION AND MAINTENANCE DATA: SOURCE DATA: FOR EACH PRODUCT OR SYSTEM, LIST NAMES, ADDRESSES AND TELEPHONE NUMBERS OF SUBCONTRACTORS AND SUPPLIERS, INCLUDING LOCAL SOURCE OF SUPPLIES AND REPLACEMENT PARTS. PRODUCT DATA: MARK EACH SHEET TO CLEARLY IDENTIFY SPECIFIC PRODUCTS AND COMPONENT PARTS. AND DATA APPLICABLE TO INSTALLATION. DELETE INAPPLICABLE INFORMATION. DRAWINGS: PROCEDURE, INCORPORATING MANUFACTURER'S INSTRUCTIONS
- 9. OPERATION AND MAINTENANCE DATA FOR MATERIALS AND FINISHES: FOR EACH PRODUCT, APPLIED MATERIAL, AND FINISH: PRODUCT DATA, WITH CATALOG NUMBER, SIZE, COMPOSITION AND COLOR AND TEXTURE DESIGNATIONS: INFORMATION FOR RE-ORDERING CUSTOM MANUFACTURED PRODUCTS. PROVIDE INSTRUCTIONS FOR CARE AND MAINTENANCE MANUFACTURER'S RECOMMENDATIONS FOR CLEANING AGENTS AND METHODS. PRECAUTIONS AGAINST DETRIMENTAL CLEANING AGENTS AND METHODS, AND RECOMMENDED SCHEDULE FOR
- I. OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS: FOR EACH ITEM OF EQUIPMENT AND EACH SYSTEM: DESCRIPTION OF UNIT OR SYSTEM, AND COMPONENT PARTS; IDENTIFY FUNCTION, NORMAL OPERATING CHARACTERISTICS, AND LIMITING CONDITIONS: INCLUDE PERFORMANCE CURVES, WITH ENGINEERING DATA AND TESTS: COMPLETE NOMENCLATURE AND MODEL NUMBER OF REPLACEABLE PARTS. WHERE ADDITIONAL INSTRUCTIONS ARE REQUIRED. BEYOND THE MANUFACTURER'S STANDARD PRINTED INSTRUCTIONS ARE REQUIRED, BEYOND THE MANUFACTURERS STANDARD PRINT INSTRUCTIONS, HAVE INISTRUCTIONS PREPARED BY PERSONNEL EXPERIENCED IN THE OPERATION AND MAINTENANCE OF THE SPECIFIC PRODUCTS. PANIELBOARD CIRCUIT DIRECTORIES: PROVIDE ELECTRICAL SERVICE CHARACTERISTICS, CONTROLS, AND COMMUNICATIONS, TYPED. OPERATING PROCEDURES: INCLUDE START-JIP, BREAK-IN, AN ROUTINE NORMAL OPERATING INSTRUCTIONS AND SEQUENCES. INCLUDE REGULATION, CONTROL, STOPPING, SHUT-DOWN, AND EMERGENCY INSTRUCTIONS. INCLUDE SUMMER. WINTER, AND ANY SPECIAL OPERATING INSTRUCTIONS. MAINTENANCE REQUIREMENTS. INCLUDE ROUTINE PROCEDURES AND GUIDE FOR PREVENTATIVE MAINTENANCE AND TROUBLE SHOOTING: DISASSEMBLY, REPAIR, AND REASSEMBLY INSTRUCTIONS: AND ALIGNMENT. ADJUSTING, BALANCING, AND CHECKING INSTRUCTIONS. PROVIDE SERVICING AND LUBRICATION SCHEDULE. AND LIST OF LUBRICANTS REQUIRED. INCLUDE MANUFACTURER'S PRINTED OPERATION AND MAINTENANCE INSTRUCTIONS. INCLUDE SEQUENCE OF OPERATION BY CONTROLS MANUFACTURER. PROVIDE ORIGINAL MANUFACTURER'S PARTS LIST, ILLUSTRATIONS, ASSEMBLY DRAWINGS, AND DIAGRAMS REQUIRED FOR MAINTENANCE. CONTROL DIAGRAMS. PROVIDE LIST OF ORIGINAL MANUFACTURER'S SPARE PARTS, CURRENT PRICES, AND RECOMMENDED QUANTITIES TO BE MAINTAINED IN STORAGE. INCLUDE TEST AND BALANCING REPORTS.

GENERAL REFLECTIVE CEILING NOTES

ALL CEILING ELEVATIONS IDENTIFIED DENOTE HEIGHT ABOVE FINISHED FLOOR UNLESS NOTED REFER TO MECHANICAL, PLUMBING, ELECTRICAL, FIRE PROTECTION, AND TECHNOLOGY DRAWINGS FOR CEILING MOUNTED EQUIPMENT AND COMPONENTS NOT IDENTIFIED ON

PRIOR TO BEGINNING ANY WORK, NOTIFY THE ARCHITECT IF QUANTITY AND/OR SPACING OF

LIGHT FIXTURES ON ELECTRICAL DRAWINGS DOES NOT MATCH QUANTITY AND/OR SPACING OF

PRIOR TO BEGINNING ANY WORK, NOTIFY THE ARCHITECT IF QUANTITY AND/OR SPACING OF LOW VOLTAGE DEVICES ON ELECTRICAL DRAWINGS DOES NOT MATCH QUANTITY AND/OR SPACING ON

ARCHITECTURAL DRAWINGS.

LIGHT FIXTURES ON ARCHITECTURAL DRAWINGS.

GENERAL FINISH NOTES

- ALL NEW CONSTRUCTION SHALL BE PRIMED AND FINISH PAINTED UNLESS MATERIALS ARE PRE-FINISHED. REFER TO THE FINISH PLANS AND THE PROJECT MANUAL FOR ADDITIONAL INFORMATION. NEW PARTITIONS AND SOFFITS ARE TO BE PRIME PAINTED FOR FULL HEIGHT OF PARTITION OR SOFFIT. SIGHT-EXPOSED SURFACES OF NEW PARTITIONS AND SOFFITS ARE TO BE
- CONCRETE IS TO BE PROTECTED FROM DAMAGE AND STAINING AFTER THE SLAB HAS BEEN POURED FOR THE DURATION OF THE PROJECT

GENERAL ROOF NOTES

- ALL INSULATION JOINTS, HORIZONTAL AND VERTICAL, ARE TO BE STAGGERED
- ALL INSULATION JOINTS GREATER THAN 1/4" ARE TO BE FILLED W/ INSULATION STRIPS. ALL ROOF PENETRATIONS, INCLUDING VENT STACKS, ROOF CURBS, AND PIPE SUPPORT CURBS ARE TO BE A MINIMUM OF 8" ABOVE THE ROOFING MEMBRANE.
- FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS INCLUDING TAPERED
- . FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS INCLUDING TAPERED INSULATION DRAWINGS WI ALL DRAIN LOCATIONS.

 ALL COUNTERFLASHING, COPING, AND MISC. METAL FLASHINGS PIECES ARE TO HAVE SEALANT APPLIED AT THEIR END CONDITIONS.
 ALL COUNTERFLASHING, COPING, AND MISC. METAL FLASHING PIECES THAT ARE TO BE SEAMED INTO SINGLE-PLY MEMBRANE (PVC) ROOF ARE TO BE COATED IN PVC FOR CONTINUOUS THERMAL MISC. AND ALTOWER PARTY OF THE PROPERTY OF THE PROPERTY OF THE PARTY OF THE PROPERTY OF THE PROPERTY MEMBRANE (PVC) ROOF ARE TO BE COATED IN PVC FOR CONTINUOUS THERMAL MISC. AND ALTOWER.
- ALL EXPOSED FASTENERS TO BE CORROSION RESISTIVE, HAVE NEOPRENE WASHERS, AND BE COVERED W/ SEALANT FOLLOWING ARCHITECT'S APPROVAL.
- APPLY SINGLE PLY MEMBRANE (PVC) MANUFACTURER'S SEALANT OVER FASTENER HEADS AT BASE FLASHING SECUREMENT.
- BASE HASHING SECUREMENT.

 DRAINS AND SCUPPERS TO BE FLASHED AS PER MANUFACTURER'S SPECIFICATIONS.

 PROVIDE COUNTERFLASHING FOR ALL VERTICAL FLANGES ON ENDWALL FLASHING PIECES.

 WHEN CONDITIONS REQUIRE END WALL FLASHING TO BE INSTALLED, COORDINATE INSTALLATION
 SO THAT END WALL FLASHING AND COUNTERFLASHING COVERING IT ARE NOT DOUBLE
 FASTENED ONLY ONE FASTENER IS REQUIRED TO SECURE BOTH PIECES.
- SCREW FASTENERS FOR INSULATION ARE TO BE INSTALLED THROUGH TOP FLUTES OF METAL
- B. ALL WOOD BLOCKING TO BE MITERED AND SCREWED, UNLESS NOTED OTHERWISE . ALL COPING JOINTS TO ALIGN WITH CENTER OF METAL PANEL JOINTS AND MULLIONS, UNLESS NOTED OTHERWISE.

ROOF CONSTRUCTION NOTES

ROOF AREA: OUTBOUND SHELTER

- INSTALL ONE LAYER OF 3" RIGID POLYISOCYANURATE INSULATION AND ONE LAYER OF 2 1/2" RIGID POLYISOCYANURATE (R30 AVERAGE MINIMUM OVER CONDITIONED SPACES AND NO LESS THAN 5 1/2" TOTAL). STAGGER JOINTS: MECHANICALLY FASTEN FIRST LAYER INTO TOP FLUTES OF ACOUSTIC METAL DECK - EXPOSED FASTENERS WILL NOT BE ACCEPTED, SET SECOND LAYER N INSULATION ADHESIVE
- INSTALL TAPERED RIGID INSULATION AND SADDLES, SET IN INSULATION ADHESIVE, TAPERED
- INSTALL TAPERED RIGIO INSULATION AND SADDLES, SET IN INSULATION ADHESIVE. TAPERED RIGIO INSULATION SHALL BOX DLESS THAN 112" AT LOWEST POINT OF SLOPES INDICATED INSTALL 1/2" COVER BOARD, SET IN INSULATION ADHESIVE. FULLY-ADHERED SINGLY-PLY MEMBRANE (PKC)
 INSTALL 1/2" INSULATION STATES OF THE STATE OF TH

- RECOMMENDED INSTALLATION INSTRUCTIONS
- INSTALL PREFINISHED COPINGS, ENDWALL FLASHINGS, COUNTER FLASHINGS AND SCUPPERS.

ROOF FLASHING NOTES

- ALL INSULATION JOINTS HORIZONTAL AND VERTICAL ARE TO BE STAGGERED
- . ALL INSULATION JOINTS, HORIZONTAL AND VERTICAL, ARE TO BE STAGGERED.
 ALL INSULATION JOINTS GREATER THAN 14"A ARE TO BE FLIED WI INSULATION STRIPS.
 ALL ROOF PENETRATIONS, INCLUDING VENT STACKS, ROOF CURBS, AND PIPE SUPPORT CURBS
 ARE TO BE A MINIMUM OF 8"A ROVET THE ROOFING MEMBRAND.
 FIELD VERIFY ALL CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS INCLUDING TAPERED
 INSULATION DRAWINGS WILL DRAIN LOCATIONS.
 ALL COUNTERFLASHING, COPING, AND MISC. METAL FLASHINGS PIECES ARE TO HAVE SEALANT
 ARDIES AT THEIR BEND CONDITIONS.
- APPLIED AT THEIR END CONDITIONS. ALL COUNTERFLASHING, COPING, AND MISC. METAL FLASHING PIECES THAT ARE TO BE SEAMED
- INTO SINGLE-PLY MEMBRANE (PVC) ROOF ARE TO BE COATED IN PVC FOR CONTINUOUS THERMAL WELD APPLICATIONS
- I THEMBURL WELD APPLICATIONS
 ALL EXPOSED PASTEMERS TO BE CORROSION RESISTIVE, HAVE NEOPRENE WASHERS, AND BE
 COVERED WI SEALANT FOLLOWING ARCHITECTS APPROVAL
 APPLY SINGLE FUY MEMBRANE (PC) MANUFACTURERS SEALANT OVER FASTENER HEADS AT
 BASE FLASHING SECUREMENT.
- DRAINS AND SCUPPERS TO BE FLASHED AS PER MANUFACTURER'S SPECIFICATIONS
- PROVIDE COUNTERFLASHING FOR ALL VERTICAL FLANGES ON ENDWALL FLASHING PIECES. . WHEN CONDITIONS REQUIRE END WALL FLASHING TO BE INSTALLED, COORDINATE INSTALLATION SO THAT END WALL FLASHING AND COUNTERFLASHING COVERING IT ARE NOT DOUBLE FASTENED - ONLY ONE FASTENER IS REQUIRED TO SECURE BOTH PIECES.
- SCREW FASTENERS FOR INSULATION ARE TO BE INSTALLED THROUGH TOP FLUTES OF METAL
- DECK ONLY.
 3. ALL WOOD BLOCKING TO BE MITERED AND SCREWED, UNLESS NOTED OTHERWISE.
 4. ALL COPING JOINTS TO ALIGN WITH CENTER OF METAL PANEL JOINTS AND MULLIONS, UNLESS NOTED OTHERWISE.

DRAWING TITLE KEY

-

ROOM NUMBER - DIRECTION 1 SCALE

WALL OUTLET ABOVE

CASEWORK FRONT ELEVATION

REFER TO ELECTRICAL DWGS

SHEET REFERRED FROM

TYPICAL MOUNTING HEIGHTS NOTE: NOT ALL FIXTURES, EQUIPMENT, ACCESSORIES, AND DEVICES SHOWN ARE APPLICABLE FOR THIS PROJECT

A-311

FLOOR PLAN LEGEND



SECTION TAG



FOR WALL DOOR NUMBER REFER TO A-601 FOR DOOR AND

FRAME SCHEDULE AND NUMBER



ELEVATION TAG



COLUMN TAG AND

CENTERLINE



ES

(FD)

(AV)

STOREFRONT, CURTAIN WALL, AND WINDOW TYPE

EMERGENCY SHUT-OFF FLOOR DRAIN

REFLECTED CEILING PLAN LEGEND



SURFACE MOUNTED LED LINEAR FIXTURE - 8' LENGTHS - REFER TO REFLECTED CEILING PLAN

EMERGENCY EXIT SIGN RECESSED BUSWAY SYSTEM REFER TO ELECTRICAL DRAWING

SMOKE DETECTOR OCCUPANCY SENSOR

> DAYLIGHT SENSOR SECURITY CAMERA

AV SPEAKERS



VISUAL FIRE ALARM DEVICE FRONT ELEVATION REFER TO ELECTRICAL DWGS FIRE ALARM PULL STATION FRONT ELEVATION REFER TO ELECTRICAL DWGS FIRE EXTINGUISHER CABINET FRONT ELEVATION FRONT ELEVATION

-

FRONT ELEVATION REFER TO ELECTRICAL DWGS

ELEVATION REFER TO ELECTRICAL DWGS COUNTY TOTAL SHEETS SHEET NO

CLARENDON HILLS

DOWNTOWN REVITILIZATION

BUILDING A-021 SYMBOLS AND PROJECT GENERAL NOTES

1003 16-00045-01-MS DUPAGE 79 61G62

00

WALL OUTLET FRONT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BNSF REQUIREMENTS

CONTRACTOR REQUIREMENTS

- 1.01.01 The Contractor must cooperate with BNSF RAILWAY COMPANY, hereinafter referred to as 'Railway' where work is over or under on or adjacent to Railway property and/or right-of-way, hereafter referred to as 'Railway Property', during the
- 1.01.03 The Contractor must plan, schedule and conduct all work activities so as not to interfere with the movement of any trains on Railway Property.
- not to interfere with the movement of any trains on Railway Property.

 18.18.4 The Contralocian's right to enter Railway's Property is subject to the absolute right of Railway to clause the Contralocian's work on Railway's Property in a subject to clause the Contralocian's work on Railway's Property, employees, and/or operations. Railway will have the right to stop construction work on the Project of any of the following events take place: (i) reconstruction work on the Project of any of the following events take place: (ii) construction work on the Project of any of the following events take place: (ii) construction to the plans and specifications approved by Railway; (iii) Centractor (or any of its subcontractors), in Railways spoints, prosecutes the Project or (iv) Contractor fails to place of its authoritoration), in Railways spoints, prosecutes the Project or (iv) Contractor fails to play Railways for the Temporary Construction License or the Easement. The work stoppage will continue until all necessary administration and scopetod by Railway. In the event of a breach of (ii) this Agreement, (iii) the Temporary Construction License or (iii) the Easement, Railway may immediately lemmants the Temporary Construction License or the part of Railway; a Railways in the vest of any lighting ton the part of Railway; Railways in the stop the work is in addition to any other rights Railways may have including, but not limited to, actions or suits for the Project. (ii) the Easement of the Project. (ii) the Contraction the Construction work on the Projects. In the event of the Railway developed to the Construction work on the Projects. (Iii) the construction the construction work on the Projects. (Iii) the construction the Construction work on the Projects. (Iii) the construction the Construction work on the Projects. (Iiii) the construction the Construction work on the Projects. (Iiii) the construction the Construction the Construction to the Construction work on the Projects. (Iiiiii) the Construction the Construction
- 1.01.05 The Contractor is responsible for determining and complying with all Federal, State and Local Governmental laws and regulations, including, but not limited to environmental laws and regulations (including), but not limited to the Resource Conservation and Recovery Act, as amended; the Clean Water Act, the Direktion Act, the Astractions Matterials Transportation Act, CRECLA), and health and safely laws and regulations. The Contractor hereby indemnifies, defends and holds humbers Placing for the analysis of the Place of the
- 1.01.06 The Contractor must notify (Agency) at _______ and Railway's Manager Public Projects, telephone number (_______ at least thirty (30) calendar days before commencing any work on Railway Property. Contractor's notification to Railway must refer to Railway's file _______
- Railway must refer to Railway's file.

 1.01.07 For any tridge demolition and/or falsework above any tacks or any state of the second of the se

10.201 No employee of the Contractor, its subcontractors, agents or invites may enter Railway Property without first having completed Railway's Engineering Contractor Safety Orientation, found on the web alte Engineering Contractor Safety Orientation, tound on the web alter and the Contractor Safety Contractor Safety

- 1.03.01 The Confractor must take protective measures as are necessary to keep railway facilities, including track ballast, free of sand, debris, and other foreign object sand miscratic resulting from his operations. Any damage to railway facilities resulting from Contractor's operations will be repaired or replaced by Railway and the cost of such repairs or replacement must be paid to by the Agency.
- 1.03.02 The Contractor must notify the Railway's Division Engineer at () and provide blasting plans to the Railway for review seven (7) calendar days prior to conducting any blasting operations adjacent to or on Railway's Property.
- 1.03.03 The Contractor must abide by the following temporary clearances during

- volts
 28'-0' Vertically above top of rail for electric wires carrying 750 volts to
 15,000 volts
 30'-0' 0,000 volts
 30'-0' Vertically above top of rail for electric wires carrying 15,000 volts to
 20,000 volts
 40'-0' Vertically above top of rail for electric wires carrying more than
 20,000 volts

1.03.04 Upon completion of construction, the following clearances shall be maintained: [Note to Drafter: The vertical clearance should mirror the final negotiated design clearance] 25 Horizontally from centerine of nearest track 23 '6' Vertically above top of rail

- 1.03.05. Any infringement willin State statutory clearances due to the Contractor's operations must be authinated to the Railway and to the (Agency) areas not undertaken until approved in writing by the Railway, and until the (Agency) has obtained any necessary authorization form the State Regulatory Authority for the infringement. No obtain comprehension will be allowed in the event the Contractor's representation of the solice of the second of the contractor's approval. The contractor is a solice of the contractor's approval. The contractor is a solice of the contractor of t
- 1.03.06 In the case of impaired vertical clearance above top of rail, Railway will have the option of installing tell-tales or other protective devices Railway deems necessary for protection of Railway operations. The cost of tell-tales or protective devices will be borne by the Agency.
- approved by the Kallway.

 1.03.08 A John than public road crossings, the Contractor must not move any equipment or materials across Railway's tracts until permission has been obtained from the Railway. The Contractor must obtain a "Temporary Construction Crossing Agreement" from the Railway prior to moving his equipment or materials across the Railways tracts. The temporary consigning table guide and locked at all times when not required for use by the Contractor. The temporary crossing for use of the expense of the Contractor.
- 1.43.19 Discharge, release or spill on the Railway Property of any hazardous waterings of the project must be notified. A minimum of two employees must be present at all swaterings of the project must be notified. A minimum of two employees must be present at all swaterings of the project must be notified. A minimum of two employees must be present at all swaterings of the project must be notified. A minimum of two employees must be present at all swaterings of the project must be notified. A minimum of two employees must be present at all swaterings of the project must be notified. A minimum of two employees must be present at all swaterings of the project must be notified. A minimum of two employees must be present at all swaterings of the project must be notified. A minimum of two employees must be notified. An information of two employees must b
- 1.03.10 The Contractor upon completion of the work covered by this contract, must promptly remove from the Railway's Property all of Contractor's tools, equipment, implements and other materials, whether toxogit upon said property by subcontractor, and must cause Railway's Property to be left in a condition acceptable to the Railway's propersarita've.

- Action Plan:

 1.04.01 Each Contractor that will perform work within 25 feat of the centerline of a track must develop and implement a Roadway Worker Protection/On Track Safety Program and work with Relawlay Project Representative to develop on not make safety strategy as described in the guidelines listed in the on track safety portion of the safety Development on the Safety Development of Safety Action Plans, a provided for on the web site sews contractor of any work on Rahaway Property, During the performance of work, the Confractor must adult its work activities. The Confractor for the Rahaway and who will maintain a copy of the Safety Action Plans, safety audits, and Material Safety Datasheets (MSDS), at the job site.

- Railroad's designee. Contrador shall be subject to periodic audit to ensure compliance.

 Contrador subject to the e-RALISAFE program hereunder shall not permit any oil temployees, subcontradors against movement, year the most sale that approved under e-RALISAFE Program standards. Railroad shall have the right to deep entry onto its permitses or accesses a described in this section above the right to deep entry onto its permitses or accesses a described in this section above the right to deep entry of the section above the section above the result of the results of the section above the results of the results of the results of the section above the results of the results of

- 1.05.03 Flagging services will be performed by qualified Railway flaggers.

- 1.05.03 Flagging services will be performed by qualified Railway Raigners.
 1.05.03 Enging error generately consists of one employee. However, additional generation from the production of the detection or adjacent to Railway's Property, in or on-containerized commodity or material, on or adjacent to Railway's Property, in or on-containerized commodity or material, on or adjacent to Railway's Property, in or on-containerized commodity or material, on or adjacent to Railway's Property, in or on-containerized commodity or material, on or adjacent to Railway's Property, in or on-containerized commodity or material, or or adjacent to Railway's Property, in or on-containerized commodity or material, or or adjacent to Railway's Property, in or on-containerized commodity or material, or or adjacent to Railway's Property and any surface water, any surface water, awarent, vedicated or surface, and the thind property during insurance, public ballship and property during insurance, pub
- 1.05.03d The average train traffic on this route is _____ freight trains per 24-hour period at a timetable speed _____ MPH and ____ passenger trains at a timetable speed of _____ MPH.

- 1.06.01 Work in the proximity of railway track(s) is potentially hazardous where
 movement of trains and equipment can occur at any time and in any direction. All
 work performed by contractors within 25 feet of any track must be in compliance with
 FRA Roadway Worker Protection Regulations.
- 1.06.02 Before beginning any task on Railway Property, a thorough job safety briefing must be conducted with all personnel involved with the task and repeated briefing rugal founder the Railways's flagger, as applicable, and include the procedures the Contractor will use to protect its employees, subcontractors, agents or invites of from moving any experiment adjacent to a cross any Railway track(s).
- 1.06.03 Workers must not work within 25 feet of the centerline of any track without an on track safety strategy approved by the Rallway's Project Representative. When authority is provided, very contractor englosyee must know. (1) who the method of communication to stop and resume work, and (4) location of the designated places of safety. Persons or equipment entering flagshow, limits that were not previously job briefled, must notify the flagger immediately, and be given a job briefley when working within 25 feet of the center for of track.
- 1.06.04 When Contractor employees are required to work on the Railway Property after normal working hours or on weekends, the Railway's representative in charge of the project must be notified. A minimum of two employees must be present at all times.
- 1.06.06 Any damage to Railway Property, or any hazard noticed on passing trains
 must be reported immediately to the Railway's representative in charge of the
 experiment. or structure (bright) and could result in a train drainfant must be
 reported immediately to the Railway representative in charge of the project and to
 the Railways Resource Operation Center at 1(800) 832-5452. Local emergency
 numbers are to be obtained from the Railways representative in charge of the project
 prior to be start of any work and must be posted at the job bile.

- and Material Safety Datasheets (MSDS), at the job site.

 1.8.18.12 Contractor shall have a landground invested for safety and invested shall contracted the land and a landground invested for Safety and Safety Saf

- 1.05.02a When upon inspection by Railway's Representative, other conditions warrant.

 1.05.02b When any excavation is performed below the bottom of tie elevation, if, in the opinion of Railway's representative, tox or their Railway facilities may be subject to movement or seletioner.

 1.05.02b When any excavation is performed below the bottom of tie elevation, if, in the opinion of Railway's representative, tox or their Railway facilities may be subject to movement or seletioner.

 1.05.02b When are excavation is performed below the bottom of tie elevation, if, in the opinion of Railway's representative, tox or their Railway dot about the location of underground cables or lines of any kind, no work must be performed until the exact location has been determined. There will be no excession.
- 1.05.02d When any hazard is presented to Railway track, communications, signal, electrical, or other facilities either due to persons, material, equipment or blasting in the vicinity.
 1.05.02e Special permission must be obtained from the Railway before moving heavy or cumbersome objects or equipment which might result in malking the frack impassable.

• 1.09.01 The Ralway is required to report certain injuries as a part of compliance with Federal Ralicoad Administration (FRA) reporting requirements. Any personal injury sustained by an employee of the Contrator's subortextor or Contractor's invitees while on the Ralway's Property must be reported immediately (by phone mail if unable to contact in person) to the Ralway's representative in charge of the project. The Non-Employee Personal Injury Data Collection Form contained herein is to be completed and sent by Fas to the Ralway's 1 (1(71) 522-7562 and to the Institute of the Injury.

RAILWAY NON-EMPLOYEE PERSONAL INJURY DATA COLLECTION

Of injuries are in connection with rail againment accident/incident, highway rail grade crossing accident or automobile accident, ensure that appropriate information is obtained, forms completed and that data entry personnel are aware that



(Name) (Employee No.) (Phone #) REPORT PREPARED TO COMPLY WITH FEDERAL ACCIDENT REPORTING REDUIREMENTS AND PROTECTED FROM DISCLOSURE PURSUANT TO 49 U.S.C. 20903 AND 83 U.S.C. 490

NON-EMPLOYEE PERSONAL INJURY DATA COLLECTION





EXHIBIT "C-1"

Agency Project:

S'Contractor Legalhamétis | Beset contractor's legal name here|hereinaber called Couractor) has entered into an agreement (hereinaber called "Agreement") date and the Country (hereinaber called "Agreement") date and the Country (hereinaber called "Agreement") date for the country (hereinaber called "Agreement") date for the performance of certain work in connection with the following project performance of certain work in connection with the following project performance of certain work in except project contractor to one BBSF RALLWY COUNTRY (hereinaber called the country of the performance of the country of the country

1) RELEASE OF LIABILITY AND INDEMNITY

1) RELEASE OF LIABILITY AND INDEMNITY
Contrador hereby www.ne, release, indemnifies, defende and holds harmless Railway for all judgments, awards, claims, demands, and expenses (including althorage) fees), for injury of each to all persons, including Railways and Contradors' deformed and employees, and for loss and contradors' and an observation of the contradors' and the contradors of any work performed on or about NOTINE ARRIVERS (SERVICE) AND ARRIVERS (

expenses growing out of or resulting from or incident to sety such cases or statis.

In addition to any other provision of this Apperment, in the event that all or any portion of this Article shall be deemed to be inapplicable for any reason, including without initiation as a sparre than this Article shall be interpreted as requiring Contractor to indentify Rahayot in the Article shall be interpreted as requiring Contractor to indentify Rahayot in the Market permitted by applicable law. THROUGH THIS AGREEMENT THE PARTIES that the provided have been applied to the ARTICLE ARTI

- A. Commercial General Liability insurance. This insurance shall contain broad form contractual liability with a combined single limit of a minimum of \$2,000,000 each recourance and an agegrapation limit of at least \$4,000,000 that no event less than the courance of the state of

B. Business Automobile Insurance. This insurance shall contain a combined single limit of at least \$1,000,000 per occurrence, and include coverage for, but not limited to the following:

The policy shall also contain the following endorsements or language, which shall be indicated on the certificate of insurance:

- Waiver of subrogation in favor of and acceptable to Railway.
 Additional insured endorsement in favor of and acceptable to Railway.
- Separation of insureds.
 The policy shall be primary and non-contributing with respect to any insurance carried by Railway.
- C. Workers Compensation and Employers Liability insurance including coverage for, but not limited to:

cover all employees anyway.

Employers' Liability (Part B) with limits of at least \$500,000 each accident, \$500,000 by disease policy limit, \$500,000 by disease each employee. This policy shall also contain the following endorsements or language, which shall be indicated on the certificate of insurance;

- Waiver of subrogation in favor of and acceptable to Railway.

- Endoards to amove any exclusion for available demands and the second of the secon



Contractor shall notify Railway in writing at least 30 days prior to any cancellation, non-renewal, substitution or material alteration.

Any insurance policy shall be written by a reputable insurance company acceptable to Railway or with a current Best's Guide Rating of A- and Class VII or better, and authorized to do business in the state(s) in which the service is to be provided.

Failure to provide evidence as required by this section shall entitle, but not require, *Railway* to terminate this Agreement immediately. Acceptance of a certificate that does not comply with this section shall not operate as a waiver of Contractor's obligations hereunder.

In the event of a claim or lawsuit involving *Railway* arising out of this agreement, Contractor will make available any required policy covering such claim or lawsuit.

These insurance provisions are intereded to be a separate and distinct obligation on the part of the Contrador. Therefore, these previsions shall be enforceable and Contrador shall be bound thereby regardless of whether or not indemnity provisions are determined to be enforceable in the prisidedion in within the work, convent hereused in performed. For purposes of this section, Railway shall mean 'Burlington Northern Strata Fe LLC', 'BNSF Railway Company' and the subclisionars, sourcessor, assigns and milliastic of each and the subclisionars, sourcessor, assigns and milliastic of each

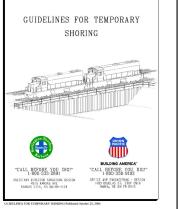
4) SALES AND OTHER TAXES

Ralaway retains the right to withhold from payments made under this Agreement amounts required to be withheld under tax laws of any jurisdiction. If Cortinactic is claiming a withholding semenplion or a relation in the withholding rise of any jurisdiction on any payments under this semigration of the relation of t

5) EXHIBIT "C" CONTRACTOR REQUIREMENTS.
The Contractor must cleare and compy with all provisions, cidigations, requirements and limitations contained in the Appearent, and the Contractor Requirements are form of EXPORT and a contractor of the Contractor Requirements are form of EXPORT and a contractor of the Contr

Contractor and subcontractors must plan, schedule, coordinate and conduct all Contractor's work so as to not cause any delays to any trains.

<%Contractor.LegalName%>	BNSF Railway Company					
Ву:	Ву:					
Printed Name:	Manager Public Projects					
Title:	Accepted and effective this	_day of 20				
Contact Person:	_					
Address:						
ony.	_					
State:Zip:	_					
State: Zip: Fax: Phone:						





LEGATARCHITECTS DESIGN | PERFORMANCE | SUSTAINABILITY

JSER NAME ESIGNED BY EM/TZ RAWN BY ΤZ REVISED 12" = 1'-0" HECKED BY EW LOT SCALE REVISED DATE OF ISSUE 05.15.20 05.15.20

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CLARENDON HILLS DOWNTOWN REVITILIZATION 12" = 1'-0" SHEET

BUILDING A-031 BNSF REQUIREMENTS

COUNTY TOTAL SHEETS SHEET NO SECTION DUPAGE 79 35 1003 16-00045-01-MS CONTRACT NO. 61G62

METRA REQUIREMENTS

- RAILROAD FLAGMAN REQUIREMENTS 1. RAILROAD FLAGMEN ARE GENERALLY PERSONNEL FROM THE RAILROAD WHO ACT A: RAILROAD FLAGMEN WILL NOT BE USED AS ON-STREET FLAGMEN. ON-STREET FLAGMEN ARE THE RESPONSIBILITY OF THE CONTRACTOR.
- RAILROAD FLAGMEN MAY WORK A MAXIMUM OF TWELVE (12) HOURS A DAY,
 ALTHOUGH IN MOST CASES IN THE SUBURBAN TERRITORY, CURFEWS EXIST THAT DO NOT ALLOW WORK DURING RUSH HOUR PERIODS. THE LENGTH OF THE WORKING DAY MUST BE ESTABLISHED WITH THE RAILROAD BEFORE WORK IS STARTED. (SEE
- CURREW BELLOW
 AT NO TIME WILL MACHINERY BE ALLOWED TO CROSS THE TRACKS OR SET UP ON
 THE TRACKS WITHOUT PRIOR PERMISSION FROM THE RAILROAD'S AUTHORIZED
 REPRESENTATIVE. THIS TYPE OF WORK WILL REQUIRE SPECIAL PROTECTION AND
 CHOULD BE AUGUST.
- SHOULD BE AVOIDED.

 RAILROAD FLAGMEN MUST BE ORDERED WITH A TWO (2) WORKING DAY NOTICE TO THE RAILROAD. WHEN NOTICE IS GIVEN, THE FOLLOWING INFORMATION MUST BE
 - A. CONTRACTOR'S NAME
 - B PROJECT NAME
- F. LOCATION OF WORK G. NUMBER OF DAYS NEEDED
- H. GRANT NUMBER 5. ANY TIME WORK IS PERFORMED WITHIN 25 FEET OF THE CENTER OF THE NEARES SET OF RAILS, FLAGMEN WILL BE NECESSARY. RAILROAD FLAGMEN MAY ALSO BE
- SEL OF HAILS, FLAGMEN WILL BE NECESSARY, RAILFOAD FLAGMEN MAY ALSO BE REQUIRED AS THE RAILFOAD DEEMS NECESSARY.

 THERE ARE A LIMITED NUMBER OF FLAGMEN AVAILABLE. EVERY REASONABLE FEFORT WILL BE MADE TO PROVIDE THE CONTRACTOR WITH A RAILFOAD FLAGMAN, HOWEVER, IF THE RAILFOAD FLAGMAN IS NOT PRESENT AS REQUESTED, THE APPROPRIATE RAILFOAD OFFICIAL MUST BE NOTIFIED BEFORE WORK IS TO BEGIN. AT NO TIME MAY THE CONTRACTOR WORK WITHIN 25 FEET OF THE TRACK WITHOUT /
- WHEN A RAILROAD FLAGMAN INFORMS THE CONTRACTOR'S FOREMAN THAT A TRAIN IS APPROACHING, ALL WORK MUST CEASE AND OPERATORS CLEAR THE TRACKS AND DISMOUNT MACHINES. IF THIS IS NOT DONE, THE FLAGMAN WILL NOT ALLOW THE TRAIN TO PASS. ANY TRAIN DELAYS OF THIS TYPE WILL NOT BE TOLERATED. DAMAGES MAY BE ASSESSED TO THE CONTRACTOR FOR TRAIN DELAYS OF THIS
- B. RAII ROAD FLAGMEN WILL BE PROVIDED TO THE JOB AT NO COST TO THE CONTRACTOR. HOWEVER, IF A RAILROAD FLAGMAN IS REQUESTED AND SUPPLIED AND THE CONTRACTOR DOES NOT WORK, THEN THE CONTRACTOR SHALL BE
- THE FINAL DECISION FOR THE NEED FOR RAILROAD FLAGMEN WILL BE WITH METRA AND SUBJECT TO THE APPROVAL OF METRA'S CONSTRUCTION MANAGER. 10. THE CONTRACTOR MUST OBEY ALL SIGNALS AND DIRECTIONS GIVEN BY THE FLAGMAN AND MUST TAKE WHATEVER ACTIONS ARE NECESSARY TO ENSURE COMPLIANCE WITH THE SIGNALS AND DIRECTIONS.

WORK CURFEW

- WORK CURFEW

 1. NO WORK WITHIN 25 FEET OF THE TRACK WILL BE DONE DURING MORNING AND
 EVENING RUSH HOURS, NO WORK WILL BE DONE BETWEEN 5:30AM AND 9:00AM, AND
 3:00 PM AND 7:30 PM MONDAY THROUGH FRIDAY. THE EXACT WORK CURFEW FOR
 THE PROJECT MUST BE ESTABLISHED WITH THE RAILROAD/OPERATING DEPARTMENT
 BEFORE THE WORK IS STARTED.

 2. ANY WORK WITHIN 25:0° OF THE CENTER LINE OF THE TRACK WILL REQUIRE A
 ALACKED. 3. FEMILIARLY ON MASTERIAL BY LOWER BY WELTONS CONSTRUCTION.
- FLAGGER. 3. EQUIPMENT OR MATERIALS ALLOWED BY METRA'S CONSTRUCTION MANAGER AND METRA, TO REMAIN AT TRACK LEVEL, OUTSIDE OF THE ABOVE MENTIONED TIMES, MUST BE STORED NOT LESS THAN 15 FEET AWAY FROM THE CENTERI INF OF THE TRACK

PASSENGER/PEDESTRIAN PROTECTION

ASSENGER/PEDESTRIAN PROTECTION
ALL WORK MUST BE PROTECTED BY A BARRICADE SYSTEM AND PROPER SIGNAGE,
AS REQUIRED BY THE RAILROAD/AUTHORIZED REPRESENTATIVE, TO BE PROVIDED
BY THE CONTRACTOR AT HIS COST. NO BARRICADING CAN BE PLACED CLOSER THAN
9'6" TO THE CENTERLINE OF THE NEARBST TRACK, EXCAVATIONS WILL BE COVERED
AND/OR COMPLETELY SURROUNDED WITH A POSITIVE BARRIER.

WORK SCHEDULING AND NOTIFICATIONS

- WORK MUST BE SCHEDULED AND PROGRESS IN SUCH A MANNER AS TO REDUCE TH IMPACT ON THE COMMUTING PUBLIC. ALL REQUESTS TO CLOSE A PORTION OF THE PLATFORM MUST BE SCHEDULED IN ADVANCE AND PERMISSION GRANTED BY THE PLAT FORM MUST BE SCHEDULED IN ADVANCE AND PERMISSION GRANIED BY THE RAILROADJAUTHORIZED REPRESENTATIVE. A COPY OF THE WEEKLY SCHEDULE OF ACTIVITIES MUST BE PRESENTED TO THE RAILROADJAUTHORIZED REPRESENTATIVE PRIOR TO THE WEEK'S ACTIVITIES A CLEAR DUDGESTANDING OF THE CONTRACTOR'S ACTIVITIES AND PERMISSION TO PROCEED WITH CONSTRUCTION WORK THAT MAPCATS COMMUTER MUST BE OSTANDED ONLY A PORTION OF THE PLATFORM MAY BE TAKEN OUT OF SERVICE AT ANY TIME FOR RECONSTRUCTION.
- FAILURE TO COMPLY . SHOULD THERE BE ANY VIOLATION OF THESE RESTRICTIONS, A STOP WORK ORDER WILL BE ISSUED AND ALL WORK WILL CEASE UNTIL THE RAILROAD AND METRA ARE SATISFIED THAT ALL PROBLEMS ARE RESOLVED AND THE REQUIREMENTS OF THIS CONDITION ARE MET. NO COSTS OF A WORK STOPPAGE MAY BE PASSED ON TO THI

RAILROAD, METRA, OR DUPAGE COUNTY

RAILROWU, MELTRA, ON DUPPAGE COOTHET.

WEEKEND, HOLIDAY AND NORTH WORK

1. THE CONTRACTOR MAY BE ALLOWED TO WORK WEEKENDS, HOLIDAYS, OR AFTER
HOURS AT INGHT. ALL ARRANGEMENTS MUST BE MADE THREE (3) DAYS IN ADVANCE
FOR SITE ACCESS, STATION SECURITY AND LOCK-UP, ALL WORK MUST BE APPROVED. IN ADVANCE AND COORDINATED WITH THE RAILROAD OPERATIONS.

THE CONTRACTOR SHALL MAINTAIN A RECORD SET OF DRAWINGS, SHOWING AL CHANGES MADE TO THE ORIGINAL PLANS. ON SITE AT ALL TIMES AT THE DISPOSAL OF THE PROJECT MANAGER AND FOR REFERENCE AT ALL PROGRESS MEETINGS. UPON COMPLETION OF THE PROJECT CLOSEOUT, ONE (1) SET OF MARKED-UP PRINTS FOR ASBULT PLANS, REFLECTING ALL CHANGES TO THE ORIGINAL PLANS, SHALL BE SUBMITTED.

- .03 SAFETY INSTRUCTIONS

 I. IF IN THE OPINION OF THE RAILROAD REPRESENTATIVE ANY OF CONTRACTOR'S OR ANY OF ITS SUBCONTRACTOR'S COUIPMENT IS UNSAFE FOR USE ON THE RAILROAD'S RIGHT-OF-WAY, THE CONTRACTOR, AT THE REQUEST OF THE RAIL ROAD REPRESENTATIVE SHALL REMOVE SUCH EQUIPMENT FROM THE RAILROAD'S RIGHT-OF-WAY.
- IF THE RAILROAD REPRESENTATIVE HAS GIVEN THE CONTRACTOR PERMISSION TO USE IF THE KAILKUAD REPRESENT AT INE HAS GIVEN THE CONTRACT ON PERMISSION TO USE CERTAIN EQUIPMENT ON ANY TRACKAGE AT THE JOB STEE, CONTRACTOR SHALL ENSURE THAT EACH AND ALL OF ITS EMPLOYEES RESPONSIBLE FOR OPERATING ANY MOTIVE POWER INCLUDING, WITHOUT LIMITATION, ANY HY-RAIL EQUIPMENT (SICHE EQUIPMENT HEREAFTER BEING REFERRED TO AS "MOTIVE POWER") ON ANY TRACKAGE OF RAILROAD WILL BE TRAINED TO KNOW AND UNDERSTAND AND WILL COMPLY WITH RAILROAD'S OPERATING RULES APPLICABLE TO THE OPERATION AND USE OF SUCH MOTIVE EDWINE THE OPERATION AND USE OF SUCH
- IN THE EVENT CONTRACTOR'S EMPLOYEES USE ANY SUCH MOTIVE POWER TO MOVE ANY RAIL CARS OR OTHER RAIL BOUND EQUIPMENT FOUIPPED WITH AIR BRAKES. CONTRACTOR SHALL FURTHER ENSURE THAT THE EMPLOYEES ARE TRAINED TO KNO AND UNDERSTAND AND WILL COMPLY WITH RAILROAD'S RULES FOR HANDLING SUCH AND UNDERSTAND AND WILL COMPLY WITH RAILROAD'S RULES FOR HANDLING SUCH MOTTUP POWER, CARS AND EQUIPMENT AND THAT CONTRACTOR'S EMPLOYEES PERFORM ALL REQUIRED TESTS OF THE OPERATING SYSTEMS OF ANY MOTIVE POWER, CARS AND OTHER EQUIPMENT BEFORE AND AFTER MOVEMENT CONTRACTOR ACKNOWLEDGES RECEIPT OF RAILROAD'S APPLICABLE RULES GOVERNING:

 1. OPERATION AND USE OF MOTIVE POWER, CARS AND OTHER EQUIPMENT AND THE MOVEMENT OF SUCH MOTIVE POWER, CARS AND EQUIPMENT BY RAIL AND
 2. OPERATION AND USE OF ANY HY-RAIL VEHICLES OFF RAIL.

JSER NAME

METRA CONSTRUCTION PROCEDURES

- IT IS IMPERATIVE THAT THE CONTRACTOR COMPLETE ALL CONSTRUCTION OPERATION AS SHOWN ON THE DRAWINGS AND SPECIFIED IN THESE DETAILED SPECIFICATIONS,
- OPERATING ON THIS LINE. THE ROADWAYS IN THE VICINITY OF THE PROJECT MUST BE KEPT OPEN TO PEDESTRIANS AND STREET TRAFFIC IN EACH DIRECTION AT ALL TIMES, EXCEPT AS OTHERWISE SPECIFIED ELSEWHERE OR HEREIN.

- 19 NOT USED

 Of EXECUTION REQUIREMENTS

 THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE
 CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE
 CONTRACTOR SHEAT SKILL AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY
 RESPONSIBLE FOR, AND HAVE CONTROL ONE CONSTRUCTION MEANS, METHODS,
 TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS
 OF THE MOORE UNDER THE CONTRACT. NIN SECTIFIC FOR THE PROPERT DESCRIPTIONS. OF THE WORK UNDER THE CONTRACT, UNLESS THE CONTRACT DOCUMENTS GIVE OTHER SPECIFIC INSTRUCTIONS CONCERNING THESE MATTERS.
- AS WORK PROGRESSES. CHANGES OR MODIFICATIONS IN SUCH PROCEDURES METHODS AND EQUIPMENT MAY BE REQUIRED. IN SUCH AN EVENT, FURTHER WORK SHALL BE PERFORMED ONLY IN ACCORDANCE WITH SUCH CHANGES OR MODIFICATIO
- MANAGER IN WIRLING.

 THE CONTRACTOR SHALL, IN GENERAL, FOLLOW THE PROCEDURE AND SEQUENCE OF OPERATIONS AS SPECIFIED IN THE CONTRACT DOCUMENTS FOR THE CONSTRUCTION OF THE WORK. THE ORDER IN WHICH THE VARIOUS OPERATIONS OR STAGES ARE SPECIFIED IS BASED ON THE REQUIREMENT THAT RAILROAD AND VEHICULAR TRAFFI MUST BE MAINTAINED AT ALL TIMES WITH A MINIMUM AMOUNT OF INCONVENIENCE OF INTERFERENCE TO TRAIN AND VEHICLE MOVEMENTS. ONLY THE PRINCIPAL ITEMS OF WORK TO BE PERFORMED ARE LISTED OR SHOWN, AND IT SHALL BE UNDERSTOOD THAT IT IS NOT THE INTENTION TO MENTION EVERY DETAIL OF THE WORK OR TO ENUMERATE ALL OF THE ITEMS OF THE CONTRACT WHICH MAY ENTER INTO ITS COMPLETION
- ALL OF THE ITEMS OF THE CONTRACT WHICH MAY ENTER INTO ITS COMPLETION. THE CONTRACTOR SHALL DETAIL FROM THE MUNICIPALITY PERMISSION AND PERMITS FOR ANY STREET CLOSURES NECESSARY TO COMPLETE THE WORK. A MINIMUM OF ONE WEEK ADVANCED NOTICE MUST BE GIVEN TO THE MUNICIPALITY PRIOR TO ANY CLOSURE. REGARDLESS OF THE ORDER IN WHICH THE CONSTRUCTION OPERATIONS ARE LISTED, THE CONTRACTOR WILL BE EXPECTED TO CONCURRENTLY PROCEED WITH AS MANY CONSTRUCTION OPERATIONS AS POSSIBLE IN ORDER TO EXPEDITE THE
- OF THE CONTRACT. PRIOR TO THE CONTRACTOR STARTING WORK, A JOINT CONFERENCE SHALL BE HELD BETWEEN ALL INTERESTED PARTIES, AT WHICH TIME A FINAL SCHEDULE OF OPERATIONS SHALL BE ADOPTED. AFTER THIS SCHEDULE HAS BEEN ADOPTED, NO DEVATIONS BY THE CONTRACTOR WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM METRA'S CONSTRUCTION MANAGER. NO WORK SHALL B PERFORMED BEFORE NOTICE TO PROCEED IS GIVEN BY METRA'S CONSTRUCTION MANAGER AND METRA.
- THE MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK IN EACH STAGE SHA BE FURNISHED BY THE ONE PERFORMING THE WORK UNLESS OTHERWISE SPECIFIED
- THE CONTRACTOR HAS THE RESPONSIBILITY TO ENSURE THAT ALL MATERIAL SUPPLIERS AND SUBCONTRACTORS, THEIR AGENTS, AND EMPLOYEES ADHERE TO THE CONTRACT DOCUMENTS, AND THAT THEY ORDER MATERIALS ON TIME, TAKING INTO ACCOUNT THE CURRENT MARKET AND DELIVERY CONDITIONS, SO THAT THEY PROVIDE MATERIALS ON TIME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SPACE
- MATERIALS ON TIME. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SPACE REQUIREMENTS, LOCATIONS, AND ROUTING OF ALL MATERIALS AND EQUIPMENT REQUIRED UNDER THIS AGREEMENT. IF AT ANY TIME BEFORE THE COMMENCEMENT OR DURING THE PROGRESS OF THE WORK, THE MATERIALS AND EQUIPMENT USED OR TO BE USED APPEAR TO METRA'S CONSTRUCTION MANAGER AS INSUFFICIENT OR IMPROPER FOR SECURING THE QUALITY OF WORK REQUIRED OR THE REQUIRED RATE OF PROGRESS, METRA'S CONSTRUCTION MANAGER MAY ORDER THE CONTRACTOR TO INCREASE ITS EFFICIENCY, OR TO IMPROVE THE CHARACTER OF ITS EQUIPMENT, AND THE CONTRACTOR SHALL CONFORM TO SUCH ORDER. HOWEVER, THE FAILURE OF METRA'S CONSTRUCTION MANAGER TO DEMAND AN INCREASE OF SUCH EFFICIENCY OR IMPROVEMENT SHALL NOT RELEASE THE CONTRACTOR FROM ITS OBLIGATION RESPONSIBILITY TO SECURE THE QUALITY OF WORK OR RATE OF PROGRESS REQUIRE
- RESPONSIBILITY TO SECURE THE QUALITY OF WORK OR RATE OF PRUGRESS REQUIR UNDER THIS CONTRACT.

 THE CONTRACTOR SHALL BE RESPONSIBLE TO METRA FOR ACTS AND OMISSIONS OF THE CONTRACTOR'S EMPLOYEES, SUBCONTRACTORS AND THEIR EMPLOYEES, AND OTHER PERSONS OR ENTITIES PERFORMING PORTIONS OF THE WORK FOR, OR ON BEHALF OF, THE CONTRACTOR OR ANY OF ITS SUBCONTRACTORS.
- ALL EMPLOYEES AND SUBCONTRACTORS OF THE CONTRACTOR SHALL BE QUALIFIED BY TRAINING AND EXPERIENCE TO PERFORM THEIR ASSIGNED TASKS.
- THE CONTRACTOR WILL NOT PERMIT AT ANY TIME ALCOHOL, CONTROLLED SUBSTANCES OR FIREARMS TO BE PRESENT AT THE PROJECT SITE

METRA TESTING AND INSPECTION SERVICES .1 RELATED DOCUMENTS

DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SPECIAL CONDITIONS AND OTHER SPECIFICATION SECTIONS, APPLY TO THIS SECTION

- THE CONTRACTOR SHALL PROVIDE AN INDEPENDENT TESTING AGENCY TO PERFORM TESTING AND INSPECTION SERVICES AS REQUIRED BY OTHER SECTIONS OF THIS SPECIFICATION, INCLUDING INSPECTION, SAMPLING AND TESTING FOR BUT NOT LIMITE

- CONCRETE, REINFORCEMENT
- MASONRY STRUCTURAL STEEL
- STEEL DECK
- METAL FABRICATIONS, STEEL STAIRS PAINTING

ESIGNED BY

- THE LECTIONAL
 MITRACTOR'S OBLIGATIONS
 TESTING AND INSPECTION BY THE CONTRACTOR SHALL IN NO WAY RELIEVE THE
 CONTRACTOR'S OBLIGATIONS TO PERFORM THE WORK OF THE CONTRACT HEREIN SPECIFIED.
- 2. TESTING SHALL BE REQUIRED ON ALL WORK TO SHOW COMPLIANCE WITH THE CONTRACT DOCUMENTS WHETHER OR NOT THEY ARE SPECIFICALLY INDICATED, AT NO ADDITIONAL COST TO METRA.
- 3. AFTER TESTING, SHOULD ANY MATERIAL OR WORK BE FOUND TO BE DEFECTIVE OF INFERIOR, SUCH MATERIAL ANDIOR WORK SHALL BE REMOVED AND REPLACED WITH NEW SOUND MATERIAL ANDIOR WORK SHALL BE REMOVED AND REPLACED WITH NEW SOUND MATERIAL ANDIOR WORK REMOVAL AND REPLACEMENT SHALL BE AT THE CONTRACTOR'S EXPENSE. A RETEST OF NEW MATERIAL ANDIOR WORK WILL BE PERFORMED AT THE CONTRACTOR'S EXPENSE.

- 3 CONTRACTOR'S TESTING AND INSPECTION AGENCY
 THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL TESTS AND INSPECTIONS TO
 SHOW THAT THE REQUIREMENTS OF THE CONTRACT HAVE BEEN FULFILLED, INCLUDING ALL TESTS REQUIRED BY LAW, ORDINANCES, RULES AND REGULATIONS GOVERNING
- THE CONTRACTOR SHALL SUBMIT THE NAMES, QUALIFICATIONS AND SCOPE OF
- SERVICES OF EACH INDEPENDENT TESTING AGENCY FOR METRA'S APPROVAL WITHIN 3/ DAYS OF THE CONTRACTOR'S NOTICE TO PROCEED.

 CONTRACTOR SHALL SUBMIT ONE (1) CERTIFED ORIGINAL OF EACH TEST RESULT ANDIOR REPORT TO METRA'S CONSTRUCTION MANAGER.

EM/TZ

.4 QUALIFICATIONS OF CONTRACTOR'S TESTING AND INSPECTION AGENCIES:

- THE AGENCIES' TESTING EQUIPMENT SHALL BE CALIBRATED AT REQUIR
- WITH PROOF OF CALIBRATION BY DEVICES OF ACCURACY TRACEABLE TO EITHER:

 1. NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY ACCEPTED VALUES OF NATURAL PHYSICAL CONSTANTS
- REPORTS PREPARED BY THE AGENCIES SHALL BE SIGNED BY THE APPROPRIATE REPORTS PREPARED BY THE AGENCIES SHALL BE SIGNED BY THE APPROPRIATE LICENSED PROFESSIONAL ENGINEER OR DESIGNATED REPRESENTATIVE IN A COCRDANCE WITH STATE LICENSING BOARD REQUIREMENTS. CERTIFICATION OF ENGINEERING TECHNICIANS IN THE VARIOUS SERVICE AREAS IS ENCOURAGED AND MUST BE PROVIDED WHERE CERTIFICATION IS REQUIRED.

 AN INDEPENDENT TESTING AGENCY IS ONE FREE FROM ANY CONFLICT OF INTEREST. THEY ARE NOT AFFILIATED WITH ANY INSTITUTION. COMPANY OR TRADE GROUP THAT MIGHT AFFECT THEIR BRIEF TY OR CONFIDENCE OF THE PROPERTS OF THE PROPERT
- MIGHT AFFECT THEIR ABILITY TO CONDUCT INVESTIGATIONS, RENDER REPORTS, OR

GIVE PROFESSIONAL, OBJECTIVE AND UNBIASED COUNSEL. .5 DUTIES OF CONTRACTOR'S TESTING AND INSPECTION AGENCIES:

- THE DUTIES OF THE CONTRACTOR'S TESTING AND INSPECTION AGENCY INCLUDE THE FOIL OWING:
- PROVIDE QUALIFIED PERSONNEL TO PERFORM REQUIRED INSPECTIONS
 COOPERATE AND COMPLY WITH THE REQUIREMENTS OF METRA AND
- CONSTRUCTION AS REQUIRED OR REQUESTED BY METRA TO ASCERTAIN COMPLIANCE OF MATERIALS AND WORKMANSHIP WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- WITHIN 24 HOURS OF OBSERVATION, DIRECTLY NOTIFY METRA'S CONSTRUCTIO MANAGER AND CONTRACTOR, IN WRITING, OF ANY OBSERVED IRREGULARITIES OR DEFICIENCIES OF THE WORK MATERIALS OR PRODUCTS.
- OR DEFICIENCIES OF I THE WORK, MAI ENAILS OF PRODUCTS.
 WITHIN 24 HOURS OF INSPECTION OR RECEIPT OF TESTING AND INSPECTION
 RESULTS, SUBMIT COPIES DIRECTLY TO METRA'S CONSTRUCTION MANAGER.
 EACH REPORT SHALL INCLUDE, AS A MINIMUM, AMONG OTHER ITEMS:
- b. PROJECT NAME AND NUMBER
- c. TESTING AND INSPECTION AGENCY NAME, ADDRESS AND TELEPHONE
- d. NAME AND SIGNATURE OF INSPECTOR
- 1. NAME AND SIGNALURE OF INSPECTIOR.
 2. DATE AND TIME OF SAMPLING, INSPECTION OR TESTING.
 1. RECORD OF TEMPERATURE AND WEATHER CONDITIONS.
 3. IDENTIFICATION OF PRODUCTS AND SPECIFICATIONS SECTION.
 1. LOCATION OF SAMPLE OR TEST WITHIN THE PROJECT AREA.
 1. DESIGNATION OF THE WORK AND TYPE OF INSPECTION OR TEST.
 1. DESIGNATION OF THE WORK AND TYPE OF INSPECTION OR TEST.
 1. DESIGNATION OF THE WORK AND TYPE OF INSPECTION OR TEST.
- INTERPRETATION OF TEST RESULTS INCLUDING COMMENTS OR OPINION AS TO WHETHER INSPECTED OR TESTED WORK COMPLIES WITH TH CONTRACT REQUIREMENTS.
- RECOMMENDATIONS ON RETESTING IF THE TESTED OR INSPECTED WORK IS NOT IN COMPLIANCE.

- .6 CONTRACTOR'S RESPONSIBILITIES:

 . CONTRACTOR SHALL COOPERATE WITH METRA AND THE TESTING AND INSPECTION ASENCY WITH REGARD TO THEIR DETERMINATIONS OF THE CONTRACTOR'S COMPLANCE WITH THE CONTRACT REQUIREMENTS AND SHALL PROVIDE ACCESS TO
- PROVIDE A TESTING AND INSPECTION PLAN LISTING THE TESTING REQUIRED PER CONTRACTUAL DOCUMENTS FOR VARIOUS WORK ACTIVITIES AND MATERIALS DURING
- PREPARE A LIST (LOG) OF THE INSPECTION, MEASURING, AND TEST EQUIPMENT REQUIRING CALIBRATION INCLUDING ITS CALIBRATION STATUS.
- SECURE AND DELIVER ADEQUATE QUANTITIES OF REPRESENTATIONAL SAMPLES OF PROPOSED MATERIALS FOR TESTING TO THE TESTING AND INSPECTION AGENCY.
- FURNISH COPIES OF PRODUCT TEST REPORTS.
- FURNISH INCIDENTAL LABOR AND FACILITIES TO PROVIDE ACCESS TO THE WORK TO BE TESTED
- 2. TO OBTAIN AND HANDLE SAMPLES AT THE PROJECT SITE OR AT THE SOURCE OF TH
- 3 TO FACILITATE INSPECTIONS AND TESTS
- TO TRACELLIATE INSPECTIONS AND LESTS.
 FOR STORAGE AND CURRING OF TEST SAMPLES.
 NOTIFY THE TESTING AND INSPECTION AGENCY SUFFICIENTLY IN ADVANCE OF OPERATIONS TO ALLOW FOR ASSIGNMENT OF THEIR PERSONNEL AND SCHEDULING OFT THE SCHEDULING OFT THEIR PERSONNEL S
- AT THE DISCRETION OF METRA, THE CONTRACTOR MAY BE REQUIRED TO EMPLOY AND PAY FOR THE SERVICES OF A SEPARATE, EQUALLY QUALIFIED INDEPENDENT TESTING AND INSPECTION AGENCY TO PERFORM ADDITIONAL INSPECTIONS. SAMPLING AND TESTING REQUIRED WHEN INITIAL TESTS INDICATE WORK DOES NOT COMPLY WITH TH CONTRACT DOCUMENTS
- CONTRACTOR SHALL PAY FOR ALL COSTS RELATED TO PRODUCTS AND/OR MATERIAL TESTING, IN ACCORDANCE WITH ESTABLISHED REQUIREMENTS AND AS SPECIFIED.

.7 METRA'S CONSTRUCTION MANAGER'S RESPONSIBILITIES:
. METRA, THROUGH ITS CONSTRUCTION MANAGER, MAY PERFORM SEPARATE QUALITY ASSURANCE TESTING ON ANY MATERIAL OR WORKMANSHIP TO INSURE CONTRACT

01 REPAIR AND PROTECTION

- GENERAL: UPON COMPLETION OF INSPECTION, TESTING, SAMPLE-TAKING AND SIMILAR SERVICES. THE CONTRACTOR SHALL REPAIR DAMAGED CONSTRUCTION AND RESTORE SUBSTRATES AND FINISHES TO ELIMINATE DEFICIENCIES, INCLUDING DEFICIENCIES IN VISUAL QUALITIES OF EXPOSED FINISHES.
- PROTECT CONSTRUCTION EXPOSED BY OR FOR QUALITY CONTROL SERVICE ACTIVITIES, AND PROTECT REPAIRED CONSTRUCTION.

 REPAIR AND PROTECTION IS THE CONTRACTOR'S RESPONSIBILITY, REGARDLESS OF
- THE ASSIGNMENT OF RESPONSIBILITY FOR INSPECTION, TESTING OR SIMILAR SERVICE THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TIME AND COST TO REPAIR ANY
- DAMAGED CONSTRUCTION OR RESTORATION CAUSED EITHER DIRECTLY OR INDIRECTL BY TESTING OR THE TESTING AGENCY.

CLARIFICATIONS, OR CORRECTIONS.

- VARIOUS STANDARDS ARE REFERENCED THROUGHOUT THE CONTRACT DOCUMENTS.
- HIS SECTION SPECIFIES THE FOLLOWING: APPLICABILITY OF REFERENCE STANDARDS PROVISION OF REFERENCE STANDARDS AT THE SITE
- ACRONYMS USED IN THE CONTRACT DOCUMENTS FOR REFERENCE STANDARDS. SOURCE OF REFERENCE STANDARDS.
- CERTAIN TERMS USED IN THE CONTRACT DOCUMENTS ARE DEFINED IN THIS SECTION.

1.02 DEFINITIONS A. WHEREVER IN THE CONTRACT DOCUMENTS THE FOLLOWING TERMS, OR PRONOUNS PLACE OF THEM, OR ABBREVIATIONS THEREOF ARE USED, THE INTENT AND MEANING SHALL BE INTERPRETED AS FOLLOWS: ADDENDA: ADDENDA ARE WRITTEN OR GRAPHIC INSTRUMENTS ISSUED BY METRA WHICH MODIFY OR INTERPRET THE BIDDING DOCUMENTS BY ADDITIONS. DELETIONS

- AGREEMENT: SHALL MEAN A PROPOSAL OR CONTRACT EXECUTED BY METRA AGREEMENT: SHALL IMEAN A PROPUSAL OR CONTRACT EXECUTED BY METRA.
 ALTERNATE: AN ALTERNATE BID (OR ALTERNATE) IS AN AMOUNT STATED IN THE BID TO
 BE ADDED TO OR DEDUCTED FROM THE AMOUNT OF THE BASE BID IF THE
 CORRESPONDING CHANGE IN THE WORK, AS DESCRIBED IN THE BIDDING DOCUMENTS,
- CONSTRUCTION MANAGER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO METRA'S CONSTRUCTION MANAGER'S DUTIES AND RESPONSIBILITIES AS STATED IN THE CONDITIONS OF THE CONTRACT
- AUTHORITY: THIS TERM SHALL MEAN THE NORTHEAST ILLINOIS REGIONAL COMMUTER RAILROAD CORPORATION (METRA). BASE BID: THE BASE BID IS THE SLIM STATED IN THE BID FOR WHICH THE BIDDER BASE BID: THE BASE BID IS THE SUM STATED IN THE BID FOR WHICH THE BIDDER OFFERS TO PERFORM THE WORK DESCRIBED IN THE BIDDING DOCUMENTS AS THE BASE, TO WHICH WORK MAY BE ADDED OR FROM WHICH WORK MAY BE OMITTED, FOR SUMS STATED IN ALTERNATE ADDITIVES AND DEDUCTIONS.

 BID: ABID IS A COMPLETE AND PROPERLY SIGNED PROPOSAL TO DO THE WORK, OR DESIGNATED PORTION THEREOF, FOR THE SUMS STIPULATED THEREIN, SUBMITTED IN ACCORDANGE WITH THE THE PROPINCE OF CHARACTES THE STEPLE ADDITIONS.
- ACCORDANCE WITH THE REQUIREMENTS OF THE BIDDING DOCUMENTS. THE TERM BID IS USED INTERCHANGEABLY WITH PROPOSAL.
- BIDDER: A BIDDER IS A PERSON OR ENTITY WHO SUBMITS A BID BIDDING DOCUMENTS: BIDDING DOCUMENTS INCI UDE THE INVITATION TO BID BIDDING DOCUMENTS: BIDDING DOCUMENTS INCLIDE THE INVITATION TO BID, INSTRUCTIONS TO BIDDERS, THE BID FORM, OTHER SAMPLE BIDDING AND CONTRACT FORMS, AND THE PROPOSED CONTRACT DOCUMENTS INCLUDING ADDENDA ISSUED PRIOR TO THE DATE FOR RECEIPT OF BIDS.

 CALENDAR DAY: SHALL MEAN EVERY DAY SHOWN ON THE CALENDAR.

 CONSULTANT: SHALL MEAN THE FIRM OF AN ARCHITECTURAL/ENGINEERING COMPANY OR THEIR DIVINITIES.
 - OR THEIR DULY AUTHORIZED REPRESENTATIVE
- CONTRACT DOCUMENTS: THE CONTRACT DOCUMENTS PROPOSED FOR THE WORK CONSIST OF THE METRA-CONTRACTOR AGREEMENT, THE CONDITIONS OF THE CONTRACT (GENERAL, SUPPLEMENTARY AND OTHER CONDITIONS), THE DRAWINGS, T SPECIFICATIONS, ALL ADDENDA ISSUED PRIOR TO THE DATE FOR RECEIPT OF BIDS, ANI ALL MODIFICATIONS ISSUED AFTER EXECUTION OF THE CONTRACT.
- CONTRACT SUM: THE CONTRACT SUM IS STATED IN THE AGREEMENT AND, INCLUDING 3. CONTRACT SUM: THE CONTRACT SUM IS STATED IN THE AGREEMENT AND, INCLUDING AUTHORIZED ADJUSTMENTS, IS THE TOTAL AMOUNT PAYABLE BY METRA TO THE CONTRACTOR FOR PERFORMANCE OF THE WORK UNDER THE CONTRACT DOCUMENTS. 4. CONTRACTOR: SHALL MEAN THE INDIVIDUAL, FIRM, PARTMERSHIP, OR CORPORATION DIRECTLY CONTRACTING WITH METRA FOR PERFORMANCE OF THE PRESCRIBED WORD STREET, CONTRACTING WITH METRA FOR PERFORMANCE OF THE PRESCRIBED WORD STREET, CONTRACTING WITH METRA FOR THE PRESCRIBED WORD STREET, CONTRACTING WITH METRA FOR THE PRESCRIBED WORD STREET, AND STR
- "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", "ACCEPTED", AND "PERMITTED" MEAN "DIRECTED BY METRA'S CONSTRUCTION MANAGER", "REQUESTED BY METRA'S CONSTRUCTION MANAGER", ETC. HOWEVER, NO SUCH IMPLIED MEANING WILL BE INTERPRETED TO EXTEND METRA'S CONSTRUCTION MANAGER'S RESPONSIBILITY INTO THE CONTRACTOR'S AREA OF CONSTRUCTION
- SUPERVISION.

 DRAWINGS: THE APPROVED PLANS, PROFILES, TYPICAL CROSS SECTIONS, ELEVATIONS

 AND DETAILS, OR ADDENDA THERETO; WHICH SHOW THE LOCATION, CHARACTER,

 DIMENSIONS, AND DETAILS OF THE WORK TO BE PERFORMED. THE TERM DRAWINGS IS ENGINEER/ARCHITECT: SHALL MEAN METRA'S CONSTRUCTION MANAGER AS DEFINED
- I. EQUAL: WHERE THE WORDS "EQUAL", "OR EQUAL", "APPROVED", "SATISFACTORY" AND OTHER WORDS OF LIKE IMPORTANCE ARE USED, DETERMINATION AND APPROVAL BY METRA'S CONSTRUCTION MANAGER IS INTENDED, UNLESS OTHERWISE SPECIFIED, AN
- IS SO UNDERSTOUD.

 I. FURNISH: SHALL MEAN TO PURCHASE, SUPPLY, DELIVER, UNLOAD, UNPACK, ASSEMBLE AND INSTALL COMPLETE.

 GENERAL REQUIREMENTS: THE PROVISIONS OR REQUIREMENTS OF DIVISION 1 SECTIONS. GENERAL REQUIREMENTS: THE PROVISION OR REQUIREMENTS OF DIVISION 1 SECTIONS. GENERAL REQUIREMENTS APPLY TO THE ENTIRE WORK OF THE CONTRACT AND, WHERE SO INDICATED, TO OTHER ELEMENTS WHICH ARE INCLUDED IN THE
- . INCLUDE: SHALL MEAN THAT THE ITEMS SPECIFIED THEREAFTER MAY OR MAY NOT BE ALL OF THE CONSTITUENTS, COMPONENTS, OR SUBORDINATE PARTS OF THE WHOLE.

 INSTALL: SHALL MEAN TO RECEIVE, INSPECT, HANDLE, UNLOAD, UNPACK, ASSEMBLE,
 ERECT, PLACE, ANCHOR, APPLY, FINISH, PROTECT, CLEAN, AND SIMILAR OPERATIONS COMPLETE AND READY FOR USE, INCLUDING CONNECTIONS, ADJUSTMENTS, AND
- TESTING.
 INDICATED: THE TERM "INDICATED" IS A CROSS-REFERENCE TO GRAPHICS, NOTES OR SCHEDULES ON DRAWINGS, TO OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND TO SIMILAR MEANS OF RECORDING REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED" AND "SPECIFIED" ARE USED IN LIEU OF "INDICATED", IT IS FOR THE PURPOSE OF
- HELPING THE READER LOCATE CROSS-REFERENCES.
 INSTALLER: THE ENTITY (PERSON OR FIRM) ENGAGED BY THE CONTRACTOR OR ITS SUBCONTRACTOR OR SUB-SUBCONTRACTOR FOR PERFORMANCE OF A PARTICULAR UNIT OF WORK AT THE PROJECT SITE, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR REQUIRED OPERATIONS. IT IS A GENERAL REQUIREMENT THAT SUCH ENTITIES (INSTALLERS) BE AN EXPERT IN OPERATIONS THEY ARE ENGAGE
- THE TERM EXPERIENCED, WHEN USED WITH THE TERM INSTALLER, MEANS
 HAVING A MINIMUM OF FIVE (5) PREVIOUS PROJECTS SIMILAR IN SIZE AND SCOPE
 TO THIS PROJECT, BEING FAMILIAR WITH THE SPECIAL REQUIREMENTS INDICATED, AND HAVING COMPLIED WITH THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. b. TRADES: USING TERMS SUCH AS CARPENTRY DOES NOT IMPLY THAT CERTAIN CONSTRUCTION ACTIVITIES MUST BE PERFORMED BY ACCREDITED OR UNIONIZED INDIVIDUALS OF A CORRESPONDING GENERIC NAME, SUCH AS CARPENTER IT ALSO DOES NOT IMPLY THAT THE REQUIREMENTS SPECIFIED APPLY EXCLUSIVELY TO TRADESPERSONS OF THE CORRESPONDING GENERIC
- 1. CERTAIN SECTIONS OF THE SPECIFICATIONS REQUIRE THAT SPECIFIC CONSTRUCTION ACTIVITIES SHALL BE PERFORMED BY SPECIALISTS WHO AF RECOGNIZED EXPERTS IN THOSE OPERATIONS. THE SPECIALISTS MUST BE ENGAGED FOR THOSE ACTIVITIES. AND THEIR ASSIGNMENTS ARE
- ENGAGED FOR THOSE ACTIVITIES, AND THEIR ASSIGNMENTS ARE REQUIREMENTS OVER WHICH THE CONTRACTOR HAS NO OPTION. HOWEVER, THE ULTIMATE RESPONSIBILITY FOR FULFILLING CONTRACT REQUIREMENTS REMAINS WITH THE CONTRACTOR. THIS REQUIREMENT SHALL NOT BE INTERPRETED TO CONFLICT WITH ENFORCING BUILDING CODES AND SIMILAR REGULATIONS GOVERNING THE WORK IT IS ALSO NOT INTENDED TO INTERFER WITH LOCAL TRADE UNION JURISDICTIONAL SETTLEMENTS AND SIMILAR CONVENTIONS. JOINT-VENTURE: SHALL MEAN A LICENSED BUSINESS CONSISTING OF TWO (2) OF
- MOREPERSONS, FIRMS, OR CORPORATIONS, ALL OF WHOM SHALL HAVE A VALID LICENSE TO PERFORM THE TYPE OF WORK PROPOSED BY THE JOINT VENTURE. THE CONTRACTOR'S LICENSES AND THE JOINT VENTURE LICENSE MUST BE PRE-EXISTING. THE TIME OF ENTERING THE BID.
- THE TIME OF ENTERING THE BID.

 M. METRA: THIS TERM IS THE REGISTERED SERVICE MARK FOR THE NORTHEAST ILLINOIS REGIONAL COMMUTER RAILROAD CORPORATION.

 T. METRA'S CONSTRUCTION MANAGER: ANY EMPLOYEE, AGENT, CONSULTANT, OR REPRESENTATIVE OF METRA'D DUTY AUTHORIZED BY METRA TO REPRESENT METRA IN AN ENGINEERING CAPACITY AND/OR TO MAKE DECISIONS FOR METRA WITH RESPECT. TO THE WORK IN AN ENGINEERING CAPACITY, OR ANY PARTY ACTING DIRECTLY OR THROUGH SUCH EMPLOYEE, AGENT, CONSULTANT, OR REPRESENTATIVE. THE CONTRACTOR WILL BE ADVISED BY METRA, IN WRITING, OF THE IDENTITY AND ALITHORITY OF METRA'S CONSTRUCTION MANAGER
- OWNER: SHALL MEAN "METRA" AS DEFINED IN THE REQUIREMENTS FOR BIDDING AND INSTRUCTIONS O BOILDERS.

 PRODUCT DATA: ARE ILLUSTRATIONS, STANDARD SCHEDULES, PERFORMANCE CHARTS, INSTRUCTIONS, BROCHURES, DIAGRAMS AND OTHER INFORMATION FURNISHED BY THE CONTRACTOR TO ILLUSTRATE MATERIALS OR EQUIPMENT FOR SOME PORTION OF THE
- . PROVIDE OR PROVISION: SHALL MEAN FURNISH AND INSTALL, COMPLETE, AND READY PROJECT: THE PROJECT IS THE TOTAL CONSTRUCTION OF WHICH THE WORL PERFORMED UNDER THE CONTRACT DOCUMENTS MAY BE THE WHOLE OR A PART OF

- THE PROJECT MAY INCLUDE CONSTRUCTION BY METRA OR SEPARATE CONTRACTORS. THE PROJECT MAY INCUDE COUNT FOUR CHIND YE ME AN OR SEPARATE CONTINGUISTOR.

 PROJECT STEE: THE SPACE AVAILABLE FOR PERFORMANCE OF THE WORK. THE EXTENT
 OF THE PROJECT SITE IS CONTAINED WITHIN THE AREA BOUNDED BY THE TEMPORARY
 CHAIN LINK FENCE, AND MAY NOT BE IDENTICAL WITH THE DESCRIPTION OF LAND UPON
 WHICH THE PROJECT IS TO BE BUILT.
- B. REGULATIONS: THE TERM REGULATIONS INCLUDES LAWS, ORDINANCES, STATUTES AND LAWFUL ORDERS ISSUED BY AUTHORITIES HAVING JURISDICTION, AS WELL AS RULES, CONVENTIONS, AND AGREEMENTS WITHIN THE CONSTRUCTION INDUSTRY THAT
- CONTROL THE PERFORMANCE OF THE WORK. SAMPLES: ARE PHYSICAL EXAMPLES THAT II LUSTRATE MATERIALS. FOUIPMENT OF
- 4. SAMPLES: ARE PHYSICAL EXAMPLES THAT ILLUSTRATE MATERIALS, EQUIPMENT OF WORKMANDER PAND ESTRALISH STANDARDS BY WHICH THE WORK WILL BE JUDGED. 5. SHOP DRAWINGS: ARE DRAWINGS, DIAGRAMS, SCHEDULES AND OTHER DATA SPECIALLY PREPARED FOR THE WORK BY THE CONTRACTOR OR A SUBCONTRACTOR, SUBSUBCONTRACTOR, MANUFACTURER, SUPPLIER OR DISTRIBUTOR TO ILLUSTRATE SOME PORTION OF THE WORK. THESE ARE ALSO SOMETIMES REFERRED TO AS INSTALLATION DRAWINGS.
- 5. SPECIFICATIONS: THE SPECIFICATIONS ARE THAT PORTION OF THE CONTRACT DOCUMENTS CONSISTING OF THE WRITTEN REQUIREMENTS FOR MATERIALS, EQUIPMENT, SYSTEMS, STANDARDS AND WORKMANSHIP FOR THE WORK, AND PERFORMANCE OF RELATED SERVICES.
- SUB-BIDDER: A SUB-BIDDER IS A PERSON OR ENTITY WHO SUBMITS A BID TO A BIDDER
- 7. SUB-BIDDER: A SUB-BIDDER IS A PERSON OR ENTITY WHO SUBMITS A BID TO A BIDDER FOR MATERIALS OR LABOR FOR A PORTION OF THE WORK.

 8. UBCONTRACTOR: SHALL MEAN A PERSON, FIRM, OR CORPORATION WHO HAS A CONTRACT WITH THE CONTRACTOR TO PROVIDE LABOR, MATERIALS, EQUIPMENT, AND SERVICES FOR WORK INCLUDED IN THE CONTRACT.

 9. SUBSTANTIAL COMPLETION IS THE STAGE IN THE PROGRESS OF THE WORK WHEN THE WORK OR DESIGNATED PORTION THEREOF IS SUFFICIENTLY COMPLETE IN
- ACCORDANCE WITH THE CONTRACT DOCUMENTS SO THAT METRA CAN OCCUPY OR UTILIZE THE WORK FOR ITS INTENDED USE.). TESTING LABORATORY: AN INDEPENDENT ENTITY ENGAGED TO PERFORM SPECIFIC
- INSPECTIONS OR TESTS OF THE WORK, EITHER ON THE PROJECT SITE OR ELSEWHERE AND TO REPORT AND, IF REQUIRED, INTERPRET RESULTS OF THOSE INSPECTIONS OR TESTIS. UNIT PRICE: A UNIT PRICE IS AN AMOUNT STATED IN THE BID AS A PRICE PER UNIT OF MEASUREMENT FOR MATERIALS OR SERVICES AS DESCRIBED IN THE BIDDING DOCUMENTS ANDIOR IN THE PROPOSED CONTRACT DOCUMENTS. WORKING DAY: SHALL MEAN ANY CALENDAR DAY EXCEPT SATURDAYS, SUNDAYS, OR OBSERVED HOLIDAYS IN THE STATE OF ILLINOIS.
- 3. ORK: SHALL MEAN ALL MATERIALS, LABOR, AND SERVICES REQUIRED TO EXECUTE THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.
- 1.03 SPECIFICATION FORMAT AND CONTENT EXPLANATION
- 33 SPECIFICATION FORMAT AND CONTENT EXPLANATION
 SPECIFICATION FORMAT: THESE SPECIFICATIONS ARE ORGANIZED INTO DIVISIONS AND
 SECTIONS BASED ON THE CONSTRUCTION SPECIFICATIONS INSTITUTES EXPANDED 48DIVISION FORMAT AND MASTERFORMAT SIX DIGIT NUMBERING SYSTEM.
 SPECIFICATION CONTENT: THIS SPECIFICATION USES CERTAIN CONVENTIONS
 REGARDING THE STYLE OF LANGUAGE AND THE INTENDED MEANING OF CERTAIN
 TERMS WORDEN AND PHABESE WHEN LIFED IN PARTICIL BY STITUTIONS OF CIRCUMSTANCES. THESE CONVENTIONS ARE EXPLAINED AS FOLLOWS ABBREVIATED LANGUAGE: LANGUAGE USED IN SPECIFICATIONS AND OTHER
- CONTRACT DOCUMENTS IS ABBREVIATED. WORDS AND MEANINGS SHALL BE INTERPRETED AS APPROPRIATE, WORDS IMPLIED, BUT NOT STATED, SHALL BE INTERPRETED AS THE SENSE REQUIRES. SINGULAR WORDS WILL BE INTERPRETED AS THE SENSE REQUIRES. SINGULAR WORDS WILL BE INTERPRETED AS PLURAL AND PLURAL WORDS INTERPRETED AS SINGULAR WHERE APPLICABLE AS THE CONTEXT OF THE CONTRACT DOCUMENTS INDICATES.

 IMPERATIVE AND STREAMLINED LANGUAGE IS USED GENERALLY IN THE SPECIFICATIONS. REQUIREMENTS EXPRESSED IN THE IMPERATIVE MOD ARE TO BE PERFORMED BY THE CONTRACTOR. AT CERTAIN LOCATIONS IN THE TEXT. SUBJECTIVE LANGUAGE IS THE SENSE OF THE STREAM OF THE SENSE OF THE SENSE OF THE SENSE OF THE SENSE.
- SUBJECTIVE LANGUAGE IS USED FOR CLARITY TO DESCRIBE RESPONSIBILITIES THA MUST BE FULFILLED INDIRECTLY BY THE CONTRACTOR, OR BY OTHERS WHEN SO NOTED. THE WORDS "SHALL BE" ARE IMPLIED WHEREVER A COLON (;) IS USED WITHIN A SENTENCE OR PHRASE.

04 INDUSTRY STANDARDS

- 4 INDUST IN 3 TANDARDS: EXCEPT WHERE THE CONTRACT DOCUMENTS INCLUDE MORE STRINGENT REQUIREMENTS, APPLICABILE CONSTRUCTION INDUSTRY STANDARDS HAVE THE SAME PORCE AND EFFECT AS IF BOUND OR COPIED DIRECTLY INTO THE CONTRACT DOCUMENTS TO THE EXTENT REFERENCED. SUCH STANDARDS ARE MADE A
- PART OF THE CONTRACT DOCUMENTS BY REFERENCE.
 PUBLICATION DATES: COMPLY WITH THE STANDARDS IN EFFECT AS OF THE DATE OF THE CONTRACT DOCUMENTS.
- CONFLICTING REQUIREMENTS WHERE COMPLIANCE WITH TWO (2) OR MORE STANDARDS IS SPECIFIED. AND WHERE
- WHERE COMPLIANCE WITH TWO (2) OR MORE STANDARDS IS SPECIFIED, AND WHERE THE STANDARDS MAY ESTABLISH DIFFERENT OR CONFLICTING REQUIREMENTS FOR MINIMUM QUANTITIES OR QUALITY LEVELS, REFERENCE REQUIREMENTS THAT ARE DIFFERENT BUT APPARENTLY EQUAL AND UNCERTAINTIES TO METRA'S CONSTRUCTION MANAGER FOR A DECISION BEFORE PROCEDING.

 MINIMUM QUANTITY OR QUALITY LEVELS: THE QUANTITY OR QUALITY LEVEL SHOWN OR SPECIFIED SHALL BE THE MINIMUM PROVIDED OR PERFORMED. THE ACTUAL INSTALLATION MAY COMPLY EXACTLY WITH THE MINIMUM QUANTITY OR QUALITY SPECIFIED, OR IT MAY EXCEED THE MINIMUM WITHIN REASONABLE LIMITS. TO COMPLY WAIT THESE SPECIFIED MEMBERS TIS MINIMUM WITHIN REASONABLE LIMITS. TO COMPLY WITH THESE REQUIREMENTS, INDICATED NUMERIC VALUES ARE MINIMUM OR MAXIMUM, AS APPROPRIATE, FOR THE CONTEXT OF THE REQUIREMENTS.REFER UNCERTAINTIES TO METRA'S CONSTRUCTION MANAGER FOR A DECISION BEFORE
- PROCEEDING COPIES OF STANDARDS: EACH ENTITY ENGAGED IN CONSTRUCTION ON THE PROJECT IS REQUIRED TO BE FAMILIAR WITH INDUSTRY STANDARDS APPLICABLE TO ITS CONSTRUCTION ACTIVITY. COPIES OF APPLICABLE STANDARDS ARE NOT BOUND WITH THE CONTRACT DOCUMENTS. WHERE COPIES OF STANDARDS ARE NEEDED TO PERFORM A REQUIRED CONSTRUCTION ACTIVITY, THE CONTRACTOR SHALL OBTAIN
- COPIES DIRECTLY FROM THE PUBLICATION SOURCE. ABBREVIATIONS AND NAMES: TRADE ASSOCIATION NAMES AND TITLES OF GENERAL STANDARDS ARE FREQUENTLY ABBREVIATED. WHERE SUCH ACRONYMS OR ABBREVIATIONS ARE USED IN THE SPECIFICATIONS OR OTHER CONTRACT DOCUMENTS THEY MEAN THE RECOGNIZED NAME OF THE TRADE ASSOCIATION, STANDARDS-SENERATING ORGANIZATION, AUTHORITY HAVING JURISDICTION, OR OTHER ENTITY PPI ICABI F. TO THE CONTEXT OF THE TEXT PROVISION. REFER TO THE "ENCYCLOPED
- APPLICABLE TO THE CONTEXT OF THE TEXT PROVISION, REPERTO THE ENCYCLOPEDIA OF ASSOCIATIONS, PUBLISHED BY GALE RESEARCH CO., AVAILABLE IN MOST LIBRARIES.

 TRADE ASSOCIATIONS AND GENERAL STANDARDS: TRADE ASSOCIATION NAMES AND TITLES OF GENERAL STANDARDS ARE FREQUENTLY ABBREVIATED. THE FOLLOWING ACRONYMS OR ABBREVIATIONS, AS REFERENCED IN THE CONTRACT DOCUMENTS, ARE DEFINED TO MEAN THE ASSOCIATED NAMES, NAMES AND ADDRESSES ARE SUBJECT TO CHANGE AND ARE BELIEVED, BUT NOT ASSURED, TO BE ACCURATE AND UP-TO-DATE AS OF THE DATE OF THE CONTRACT DOCUMENTS.
- ALUMINUM ASSOCIATION

3. AMERICAN CONCRETE INSTITUTE

- ALUMINIM ASSOCIATION
 a. 90 1971 ST., NW, SUITE 300
 b. WASHINGTON, DC 20006 (202) 862-5100
 b. WASHINGTON, DC 20006 (202) 862-5100
 b. PALATINE, IL 60087 (708) 202-1350
 b. PALATINE, IL 60087 (708) 202-1350
- a. P.O. BOX 19150 b. DETROIT, MI 48219 (313) 532-260 AMERICAN COUNCIL OF INDEPENDENT LABORATORIES
 a. 1629 K ST., NW
- a. 1c24 K S1., MV
 b. WASHINGTON, DC 20006 (202) 887-5872
 ASSOCIATED GENERAL CONTRACTORS OF AMERICA
 a. 2300 WILSON BLVD., SUITE 400
 b. ARLINGTON, VA 22201 (703) 548-3118
 THE AMERICAN INSTITUTE OF ARCHITECTS
 a. A. 1735 NEW YORK AVE., NW
 b. MASSILIAGOR (200) 62001 626 2200
- B. WASHINGTON, DC 20006 (202) 626-7300 7. A.I.A. AMERICAN INSURANCE ASSOC h WASHINGTON DC 20036 (202) 828-710

1130 CONNECTICUT AVE., NW. SUITE 1000

- 8. AMERICAN INSTITUTE OF STEEL CONSTRUCTION

 - AMERICAN INSTITUTE OF STEEL CONSTRU
 ONE EAST WACKER DR., SUITE 3100
 CHICAGO, IL 60601 (312) 670-2400
 MARRICAN IRON AND STEEL INSTITUTE
 1101 17TH ST., NW
 MASHINGTON, DC 20036 (202) 452-7100
 ASSONIATED LANDIAT DOLLER, NYC. 10. ASSOCIATED LABORATORIES, INC.
 - a. 500 S. VERMONT ST. b. PALATINE, IL 60067(708) 358-7400 11. AMERICAN LUMBER STANDARDS COMMITTEE
 - a. P.O. BOX 210 b. GERMANTOWN, MD 20875 (301) 972-1700

 - b. GERMANTOWN, MD 20875 (301) 972-1700

 2. AMERICAN NATIONAL STANDARDS INSTITUTE

 a. 11 WEST 42ND ST., 13TH FLOOR

 b. NEW YORK, NY 10036 (212) 642-4900

 13. AMERICAN PLYWOOD ASSOC.

 a. P.O. BOX 11700

 b. TACOMA MAN 08441 (2001 565 6500)

 - TACOMA, WA 98411 (206) 565-6600 14. AMERICAN RAILWAY ENGINEERING AND
 - MAINTENANCE-OF-WAY ASSOCIATION b. 8201 CORPORATE DRIVE, SUITE 1125
 - LANDOVER MD 20785 (301) 459-320 15. ASPHALT ROOFING MANUFACTURERS ASSOC a. 6000 EXECUTIVE DR. SUITE 301

 - a. 6000 EXECUTIVE DR., SUITE 301
 b. ROCKVILLE, MD 20852 (301) 231-9
 16. ADHESIVE AND SEALANT COUNCIL
 - a. 627 K ST., NW, SUITE 1000 WASHINGTON, DC 20006 (202) 452-150
 - 17. AMERICAN SOCIETY FOR TESTING AND MATERIALS a. 1916 RACE ST.
 - PHII ADEI PHIA. PA 19103 (215) 299-5400 18. MERICAN WOOD PRESERVERS' ASSOC.
 - a P O BOX 286
 - F.U. BUA 200
 WOODSTOCK, MD 21163 (410) 465-3169

 19. AMERICAN WOOD PRESERVERS' BUREAU
 a. (THIS ORGANIZATION IS NOW DEFUNCT.)

 20. AMERICAN WELDING SOCIETY

 - a. 550 LEJEUNE ROAD, NW
 b. P.O. BOX 351040
 - MIAMI, FL 33135 (305) 443-9353 21. COPPER DEVELOPMENT ASSOC. 260 MADISON AV. 16TH FLOOR
 - b. NEW YORK, NY 10016 (212) 251-7200
 22. CONCRETE REINFORCING STEEL INSTITUTE
 - CONCRETE REINFORCING STEEL INSTITUTE
 a. 933 PLUM GROVE RD.
 b. SCHAUMBURG, IL 60173 (708) 517-1200
 CONSTRUCTION SPECIFICATIONS INSTITUTE
 - a. 99 CANAL CENTER PLAZA, SUITE 300
 b. ALEXANDRIA, VA 22314 (800) 689-2900 24. ETL TESTING LABORATORIES, INC.
 - a. P.O. BOX 2040 b. ROUTE 11, INDUSTRIAL PARK
 - CORTLAND, NY 13045 (607) 753-6711 25. FACTORY MUTUAL RESEARCH ORGANIZATION
 - a. 1151 BOSTON-PROVIDENCE TURNPIKE b. P.O. BOX 9102
 - c. NORWOOD, MA 02062 (617) 762-4300
 26. GYPSUM ASSOCIATION a. 810 FIRST ST., NE, SUITE 510
 - WASHINGTON, DC 20002 (202) 289-5440 27. HARDWOOD MANUFACTURERS ASSOC.
 - a. 400 PENN CENTER BLVD. PITTSBURGH, PA 15235 (412) 829-0770
 - 28. HARDWOOD PLYWOOD AND VENEER ASSOC
 - a. 1825 MICHAEL FARRADAY DR.
 b. P.O. BOX 2789
 c. RESTON, VA 22090 (703) 435-2900
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 a. TRANSPORTATION ADMINISTRATION BUILDING
 - b. 2300 SOUTH DIRKSEN PARKWAY SPRINGFIELD, IL 62764 (217) 782-4026 30. INDUSTRIAL RISK INSURERS
 - a. 85 WOODLAND ST.
 - a. 85 WOUDLAND ST. b.

 HARTFORD, CT 06102 (203) 520-7300

 31. MLSFA METAL LATHISTEEL FRAMING ASSOC.

 a. (A DIV. OF THE NATIONAL ASSN. OF ARCHITECTURAL METAL MFGS.)

 b. 600 S. FEDERAL ST., SUITE 400

 c. CHICAGO, IL 60506 (319) 292-6222

 32. NATIONAL ASSOCIATION OF ARCHITECTURAL METAL MANUFACTURERS

 a. 600 S. EEDERAL ST. SUITE 400
 - a. 600 S. FEDERAL ST., SUITE 400
 - CHICAGO, IL 60605 (312) 922-622 33. NORTH AMERICAN INSULATION MANUFACTURERS ASSOC. a. 44 CANAL CENTER PLAZA, SUITE 310
 b. ALEXANDRIA, VA 22314 (703) 684-0084 34. NATIONAL FIRE PROTECTION ASSOC

 - a. (SEE AFPA. NOW KNOWN AS THEb. AMERICAN WOOD COUNCIL OF THE
 - AMERICAN FOREST AND PAPER ASSOC).
 NATIONAL HARDWOOD LUMBER ASSOC. a. P.O. BOX 34518
 - a. P.O. BOX 34318
 b. MEMPHIS, TN 38184 (901) 377-1818
 37. NATIONAL LUMBER GRADES AUTHORITY
 a. 1055 W. HASTINGS ST., SUITE 260
 b. VANCOUVER, BRITISH COLUMBIA
 c. CANADA VEC 2E9 (604) 687-2171
 S. MATICHAL PARTICLE PROPER SECO
 - 38. NATIONAL PARTICLEBOARD ASSOC.
 a. 18928 PREMIERE COURT
 b. GAITHERSBURG, MD 20879 (301) 670-0604
 - 39. NATIONAL ROOFING CONTRACTORS ASSOC. a. 10255 W. HIGGINS RD., SUITE 600
 b. ROSEMONT, IL 60018 (708) 299-9070
 - 40. NATIONAL WOODWORK MANUFACTURERS ASSOC a. (NOW NWWDA)
 41. PORTLAND CEMENT ASSOC
 - 42. REDWOOD INSPECTION SERVICE
 - a. 405 ENFRENTE DR., SUITE 200
 b. NOVATO, CA 94949 (415) 382-0662 43. RUBBER MANUFACTURERS ASSOC.
 - a. 1400 K ST., NW b. WASHINGTON, DC 20005 (202) 682-4800 44. STEEL DECK INSTITUTE
 - 44. STEEL DECK INSTITUTE
 a. P.O. BOX 9506
 b. CANTON, OH 44711 (216) 493-7886
 45. SOUTHERN HARDWOOD LUMBER MANUFACTURERS ASSOC. a. 1205 48TH AVENUE NORTH, SUITE A

STEEL JOIST INSTITUTE

b. MYRTI F BFACH, SC 29577 (803) 449-0487 CONTINUED ON A-042

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

CLARENDON HILLS DOWNTOWN REVITILIZATION BUILDING

A-041 METRA REQUIREMENTS

COUNTY TOTAL SHEETS MUN 1003 DUPAGE 79 16-00045-01-MS 61G62

- 47. SOUTHERN PINE INSPECTION BUREAU a. 4709 SCENIC HIGHWAY
- b. PENSACOLA, FL 32504 (904) 434-2611 48. SINGLE PLY ROOFING INSTITUTE a. 20 WALNUT ST.
- WELLESLEY HILLS, MA 02181 (617) 237-7879 49. STEEL STRUCTURES PAINTING COUNCIL
- a. 4400 FIFTH AVE.
- a. 4400 FI: H AVE.
 b. PITTSBURGH, PA 15213 (412) 268-3327

 50. THERMAL INSULATION MANUFACTURERS ASSOC.
 a. (THIS ORGANIZATION IS NOW DEFUNCT.)

 51. UNDERWRITERS LABORATORIES
 a. 333 PFINGSTEN RD.
 b. NOTTUREDOCUL. BORGE (708) 373 8900
- NORTHBROOK, IL 60062 (708) 272-8800
 WEST COAST LUMBER INSPECTION BUREAU
- a. P.O. BOX 23145 b. PORTI AND, OR 97223 (503) 639-0651
- FORTEAN, OR 9/225 (903) 639-9091
 WIRE REINFORCEMENT INSTITUTE
 A. 1101 CONNECTICUT AVE. NW, SUITE 700
 B. WASHINGTON, DC 20036 (202) 429-5125

- NESTERN WOOD PRODUCTS ASSOC.

 1. YEON BUILDING
 1. 522 SW 5TH AVE.
 12. PORTLAND, OR 97204 (503) 224-3930
- FEDERAL GOVERNMENT AGENCIES: NAMES AND TITLES OF FEDERAL GOVERNMEN STANDARD- OR SPECIFICATION-PRODUCING AGENCIES ARE OFTEN ABBREVIATED. THE FOLLOWING ACRONYMS OR ABBREVIATIONS REFERENCED IN THE CONTRACT DOCUMENTS INDICATE NAMES OF STANDARD- OR SPECIFICATION-PRODUCING AGENCIES OF THE FEDERAL GOVERNMENT. NAMES AND ADDRESSES ARE SUBJECT TO AGENCIES OF THE FEBERAL GOVERNMENT. NAMES AND ADDRESSES ARE SUBJECT CHANGE AND ARE BELIEVED, BUT ARE NOT ASSURED, TO BE ACCURATE AND UP-TO-DATE AS OF THE DATE OF THE CONTRACT DOCUMENTS.

 1. CORPS OF ENGINEERS

 a. (U.S. DEPARTMENT OF THE ARMY)

 b. CHIEF OF ENGINEERS - REFERRAL

 AMELINGENDE AND ADDRESSES - REFERRAL

 AMELINGENDE DE 2003 (400) 279 2650

- c. WASHINGTON, DC 20314 (202) 272-06602. CODE OF FEDERAL REGULATIONS
- a. (AVAILABLE FROM THE GOVERNMENT PRINTING OFFICE)
- b. N. CAPITOL ST. BETWEEN G AND H ST. NW
- WASHINGTON DC 20402 (202) 783-3238
- (MATERIAL IS USUALLY FIRST PUBLISHED IN THE "FEDERAL REGISTER") CONSUMER PRODUCT SAFETY COMMISSION

- CONSUMER PRODUCT SAFETY COMMISS
 a. 5401 WESTBARD AVE.
 b. BETHESDA, MD 20207 (800) 638-2772
 COMMERCIAL STANDARD
 a. (U.S. DEPARTMENT OF COMMERCE) GOVERNMENT PRINTING OFFICE
- WASHINGTON, DC 20402 (202) 783-3238 5. DEPARTMENT OF COMMERCE
- 14TH ST. AND CONSTITUTION AVE.. NV
- . WASHINGTON, DC 20230 (202) 482-2000
- 6. DEPARTMENT OF TRANSPORTATION
 a. 400 SEVENTH ST., SW
 b. BWASHINGTON, DC 20590 (202) 366-4000
 7. ENVIRONMENTAL PROTECTION AGENCY
 a. 401 M ST., SW
 b. WASHINGTON, DC 20460 (202) 382-2090
- 8. FOOD AND DRUG ADMINISTRATION
- a. 5600 FISHERS LANE
- ROCKVILLE, MD 20857 (301) 443-1544 FFDERAL SPECIFICATION (FROM GSA)
- SPECIFICATIONS UNIT (WFSIS)
- a. SPECIFICATIONS UNIT (WPSIS)
 b. 7TH AND D ST., SW
 c. WASHINGTON, DC 20407 (202) 708-9205
 10. GENERAL SERVICES ADMINISTRATION
 a. FST. AND 18TH ST., NW
- WASHINGTON, DC 20405 (202) 708-5082
- 11. MILITARY STANDARDIZATION DOCUMENTS . (U.S. DEPARTMENT OF DEFENSE
- b. NAVAL PUBLICATIONS AND FORMS CENTER 5801 TABOR AVE

- c. 5801 TABOR AVE.
 d. PHILADEPHIA, PA 19120 (215) 697-2000

 12. NATIONAL INSTITUTE OF STANDARDS AND TECHNOLOGY
 a. (U.S. DEPARTMENT OF COMMERCE)
 b. GAITHERSBURG, MD 20899 (301) 975-2000

 13. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 a. (1.S. DEPARTMENT OF LARD)
- a. (U.S. DEPARTMENT OF LABOR)b. 200 CONSTITUTION AVE., NW
- washington, DC 20210 (202) 219-6091
 PRODUCT STANDARD OF NBS
- (U.S. DEPARTMENT OF COMMERCE) b. GOVERNMENT PRINTING OFFICE
- WASHINGTON, DC 20402 (202) 783-3238

- c. WASHINGTON, DC 20402 (202) 783-3238

 15. U.S. POSTAL SERVICE

 a. 475. L'ENFANT PLAZA, SW

 b. WASHINGTON, DC 20260 (202) 268-2000

 THE ABSENCE OF A TRADE ASSOCIATION, STANDARDS GENERATING ORGANIZATION,
 GOVERNING AUTHORITY OR OTHER ENTITY FROM THE SCHEDULE OF REFERENCES IN

 NO WAY RELIEVES THE CONTRACTOR FROM CONFORMING TO THE SPECIFIED

 BEFOILIBEMENT.

.05 GOVERNING REGULATIONS/AUTHORITIES

SOVERNING REGULATIONS/AUTHORITIES
THE PROCEDURE FOLLOWED BY THE CONSULTANT HAS BEEN TO CONTACT
GOVERNING AUTHORITIES WHERE NECESSARY TO OBTAIN INFORMATION NEEDED
FOR THE PURPOSE OF PREPARING THE CONTRACT DOCUMENTS, RECOGNIZING
THAT SUCH INFORMATION MAY OR MAY NOT BE OF SIGNIFICANCE IN RELATION TO
THE CONTRACTOR'S RESPONSIBILITIES FOR PERFORMING THE WORK. THE
CONTRACTOR SHALL CONTACT GOVERNING AUTHORITIES DIRECTLY FOR
NECESSARY INFORMATION AND DECISIONS HAVING A BEARING ON PERFORMANCE

A. PERMITS, LICENSES AND CERTIFICATES: FOR METRA'S RECORDS, SUBMIT COPIES OF PERMITS, LICENSES, CERTIFICATIONS, INSPECTION REPORTS, RELEASES, JURISDICTIONAL SETTLEMENTS, NOTICES, RECEIPTS FOR FEE PAYMENTS, JUDGMENTS, AND SMILAR DOCUMENTS, AS WELL AS CORRESPONDENCE AND RECORDS ESTABLISHED IN CONJUNCTION WITH STANDARDS AND REGULATION:

METRA TRAFFIC CONTROL

THIS SECTION SPECIFIES THE REQUIREMENTS FOR TRAFFIC CONTROL. THE WORK THIS SECTION SPECIFIES THE REQUIREMENTS FOR TRAFFIC CONTROL. THE WORK UNDER THIS SECTION SHALL INCLUDE FURNISHING ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY FOR THE INSTALLATION, MAINTENANCE, RELOCATION, AND REMOVAL OF ALL SIGNS, SIGNALS, TRAFFIC CONES, BARRICABES, TREMPORAL OF ALL SIGNS, SIGNALS, TRAFFIC CONES, BARRICABES, TREMPORAL OF DEVICES WHICH ARE USED FOR THE PURPOSE OF REGULATING, WARNING, OR DIRECTING TRAFFIC DURING CONSTRUCTION.

THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FROM THE REGULATING AGENCIES PRIOR TO THE CLOSURE OF ANY ROADWAY. THE COST OF OBTAINING ALL PERMITS IS INCLUDED IN THE PROJECT LUMP SUM COST. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

- 1.03 RELATED WORK

 A. RELATED WORK SPECIFIED ELSEWHERE INCLUDES:
- EXCEPT AS MODIFIED HEREIN, THE WORK SHALL BE IN ACCORDANCE WITH THEAPPLICABLE PORTIONS OF IDOT'S STANDARD SPECIFICATIONS FOR TRAFFIC
- 2. SECTION 01 50 00 TEMPORARY FACILITIES AND CONTROLS.

- A. TRAFFIC CONTROL DEVICES, SIGNAGE, ETC.

 A. TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, PROVIDED, INSTALLED, AND MAINTAINED WHEN NECESSARY, IN THE OPINION OF METRA'S CONSTRUCTION
- PROVIDE THE SAFEST POSSIBLE TRAVEL CONDITIONS THROUGH THE CONSTRUCTION ZONE. THE CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC STAGING PLAN TO BE APPROVED BY METRA'S CONSTRUCTION MANAGER, WHICH MINIMIZES LANE CLOSURES THROUGHOUT CONSTRUCTION DURING EACH OF THE STAGES.
- ALL TRAFFIC CONTROL DEVICES LISED ON THIS PROJECT SHALL CONFORM TO THE ALL IRAH-IC CONTROL DEVICES USED ON THIS PROJECT SHALL CONFORM TO THE PLANS, SPECIAL PROVISIONS, TRAFFIC CONTROL STANDARDS, "IDOT STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL DEVICES" AND THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" AND APPLICABLE LOCAL REGULATIONS. NO MODIFICATION OF THESE REQUIREMENTS WILL BE ALLOWED WITHOUT THE PRIOR WRITTEN APPROVAL OF METARS CONSTRUCTION MANAGER TRAFFIC CONTROL DEVICES INCLIDE: SIGNS AND THEIR SUPPORTS, SIGNALS, PAYMENET MARQUINGS RESPICATIONS WITH SAND PRAGE CHAMBINE (TIME DEVICES PAYMENET MARQUINGS RESPICATIONS WITH SAND PRAGE CHAMBINE (TIME DEVICES PAYMENET MARQUINGS SERVICATIONS WITH SAND PRAGE CHAMBINE (TIME DEVICES PAYMENET MARQUINGS SERVICATIONS WITH SAND PRAGE CHAMBINE (TIME DEVICES PAYMENET MARQUINGS SERVICATIONS WITH SAND PRAGE CHAMBINE (TIME DEVICES PAYMENT MARQUINGS SERVICATIONS WITH SAND PRAGE CHAMBINE (TIME DEVICES PAYMENT MARQUINGS SERVICATIONS WITH SAND PRAGE CHAMBINE (TIME DEVICES PAYMENT MARQUINGS SERVICATIONS WITH PAYMENT PAYMENT PROVINCES PAYMENT MARQUINGS SERVICATIONS WITH PAYMENT PAY
- PAVEMENT MARKINGS, BARRICADES WITH SAND BAGS, CHANNELIZING DEVICES WARNING LIGHTS, ARROW-BOARDS, FLAGGERS, TEMPORARY CONCRETE BARRIERS, TEMPORARY CONCRETE BARRIER TERMINAL SECTIONS, OR ANY OTHER DEVICE USED FOR THE PURPOSE OF REGULATING, WARNING, OR GUIDING TRAFFIC THROUGH THE CONSTRUCTION ZONE
- CONSTRUCTION ZONE.

 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LOCATION, INSTALLATION AND ARRANGEMENT OF ALL TRAFFIC CONTROL DEVICES. SPECIAL ATTENTION SHALL BE GIVEN TO ADVANCE WARNING SIGNS DURING CONSTRUCTION OPERATIONS IN ORDER TO KEEP LANE ASSIGNMENTS CONSISTENT WITH BARRICADE PLACEMENT AT ALL TIMES CONSTRUCTION SIGNS REFERRING TO TEMPORARY LANE CLOSURES DURING WORKING WORLD SHALL BE PERSONED FOR CONCEPTE DURING WORKING WORLD SHALL BE PERSONED FOR CONCEPTE DURING WORKING
- HOURS SHALL BE REMOVED OR COVERED DURING NON-WORKING HOURS.
 THE CONTRACTOR SHALL COORDINATE ALL TRAFFIC MAINTENANCE WORK ON THIS PROJECT WITH ADJOINING OR OVERLAPPING PROJECTS, INCLUDING ALL BARRICADE PLACEMENTS NECESSARY TO PROVIDE A UNIFORM TRAFFIC DETOUR PATTERN. WHEN DIRECTED BY METRA'S CONSTRUCTION MANAGER, THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES WHICH WERE FURNISHED, INSTALLED AND MAINTAINED ALL TRAFFIC CONTROL DEVICES WHICH WERE FURNISHED, INSTALLED AND MAINTAINED BY THEM UNDER THIS CONTRACT, AND SUCH DEVICES SHALL REMAIN THE PROPERTY OF THE CONTRACTOR ALL TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL SPECIFIC AUTHORIZATION FOR RELOCATION OR REMOVAL IS RECEIVED FROM METRA'S CONSTRUCTION MANAGER.

 THE CONTRACTOR SHALL ENSURE THAT ALL TRAFFIC CONTROL DEVICES INSTALLED BY IT AND CONTRACTIONS AND MAINTAINED AND MICHAEL SHAND CONTRACTIONS.
- IT ARE OPERATIONAL 24 HOURS A DAY, INCLUDING SUNDAYS AND HOLIDAYS. THE CONTRACTOR SHALL PROVIDE A MANNED TELEPHONE ON A CONTINUOUS 24-HOUR-A-DAY BASIS TO RECEIVE NOTIFICATION OF ANY DEFICIENCIES REGARDING TRAFFIC
- CONTROL AND PROTECTION AND SHALL DISPATCH MEN, MATERIALS, AND EQUIPMENT TO CORRECT ANY SUCH DEFICIENCIES. THE CONTRACTOR SHALL RESPOND TO ANY
- TO CORRECT ANY SUCH DEFICIENCIES. THE CONTRACTOR SHALL RESPOND TO ANY CALL FROM METRA'S CONSTRUCTION MANAGER CONCERNING A REQUEST FOR IMPROVING OR CORRECTING THE TRAFFIC CONTROL DEVICES AND BEGIN MAKING THE REQUESTED REPAIRS WITHIN TWO (2) HOURS FROM THE TIME OF NOTIFICATION. WHEN TRAVELING IN LANES THAT ARE OPEN TO PUBLIC TRAFFIC, THE CONTRACTOR'S VEHICLES SHALL ALWAYS MOVE WITH AND NOT A GAINST OR ACROSS THE FLOW OF TRAFFIC, THESE VEHICLES SHALL ENTER OR LEAVE WORK AREAS IN A MANNER, WHICH WILL NOT BE HAZARDOUS TO, OR INTERFERE WITH, TRAFFIC AND SHALL NOT PARK OR STOP EXCEPT WITHIN DESIGNATED WORK AREAS, PERSONAL VEHICLES SHALL NOT PARK WITHIN THE RIGHT-OF-WAYEXCEPT IN SPECIFIC AREAS APPROVED BY METRA'S CONSTRUCTION MANAGER.
- PLACEMENT OF ALL SIGNS AND BARRICADES SHALL PROCEED IN THE DIRECTION OF TH PLACEMENT OF ALL SIGNS AND BARRICADES SHALL PROCEED IN THE DIRECTION OF THE FLOW OF TRAFFIC, REMOVAL OF ALL SIGNS AND BARRICADES SHALL START AT THE END OF THE CONSTRUCTION AREA AND PROCEED TOWARD ONCOMING TRAFFIC UNLESS OTHERWISE APPROVED BY METRAS CONSTRUCTION MANAGER. DELAYS TO THE CONTRACTOR, CAUSED BY COMPLYING WITH THESE REQUIREMENTS, WILL BE CONSIDERED INCIDENTAL TO THE ITEM FOR TRAFFIC CONTROL, AND NO DEDICIONAL COMPENSATIONAL OF ALL DIVIDED AND TO ADDITIONAL COMPENSATIONAL OF ALL DIVIDED AND TO THE CONSIDERED AND THE PROPERTY OF THE PROPERTY OF THE PROCESS.
- ADDITIONAL COMPENSATION WILL BE ALLOWED.

 REVISIONS OR MODIFICATIONS TO ANY TRAFFIC CONTROL SHOWN OR IMPLIED IN THE CONTRACT SHALL BE SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY METRA'S CONSTRUCTION MANAGER

METRA TEMPORARY FENCING

- METRA TEMPORARY FENCING
 1.01 SECTION INCLUDES: ERECTION, MAINTENANCE, AND DISMANTLING OF TEMPORARY
 ENOING AROUND CONSTRUCTION SITE AND MATERIALS STORAGE AREA.

 R. FEFER TO DRAWINGS FOR TEMPORARY FENCE LOCATION, LAYOUT AND LOCATION OF
 GATES. FINAL LOCATION AND LAYOUT TO BE COORDINATED WITH METRA'S
 CONSTRUCTION MAINAGE. CONSTRUCTION MANAGER.

.02 NOT USED

33 SUBMITTALS
SHOP DRAWING INDICATING LAYOUT OF TEMPORARY FENCING, LOCATION AND SIZE OF GATES, EXISTING PAVEMENT AND ROADS, ACCESS TO FIRE HYDRANTS AND HOSE CONNECTIONS, AND OTHER SITE SPECIFIC CONDITIONS. PEPARE DRAWING AFTER SITE OBSERVATION AND VERIFICATION OF EXISTING CONDITIONS.

- UNLESS OTHERWISE INDICATED, TYPE OF TEMPORARY CHAIN LINK FENCING SHALL BE CONTRACTOR'S OPTION. THE FOLLOWING TYPES ARE ACCEPTABLE: NEW MATERIALS OR PREVIOUSLY USED SALVAGED CHAIN LINK FENCING IN GOOD
- POSTS: GALVANIZED STEEL PIPE OF DIAMETER TO PROVIDE RIGIDITY. POST SHALL POSTS: GALVANIZED STEEL PIPE OF UNIMETER TO POVIDE RIGIDITY. POST SPALL BE SUITABLE FOR SETTING IN CONCRETE FOOTINGS, DRIVING INTO GROUND, ANCHORING WITH BASE PLATES, OR INSERTING IN PRECAST BLOCKS. IN AREAS OF PAYEMENT WHERE GROUND MOUNTING IS UTILIZED, PAYEMENT SHALL BE REPAIRED TO MATCH EXISTING ADJACENT SURFACES AFTER REMOVAL OF CONCRETE
- 3. FABRIC: WOVEN GALVANIZED STEEL WIRE MESH. PROVIDE IN CONTINUOUS LENGTHS TO BE WIRE TIED TO FENCE POSTS OR PREFABRICATED INTO MODULAR PIPE-FRAMED FENCE PANELS.
- GATES: PROVIDE PERSONNEL AND VEHICLE GATES OF THE QUANTITY AND SIZE INDICATED ON THE DRAWINGS OR AS REQUIRED FOR FUNCTIONAL ACCESS TO THE
- FABRICATE OF SAME MATERIAL USED FOR FENCING.
- PABLICATE OF TAXING MATERIAL USED FOR TERICINO.
 VEHICLE GATES:
 A MINIMUM WIDTH. 20 FEET TO ALLOW ACCESS FOR EMERGENCY VEHICLES.
 CAPABLE OF MANUAL OPERATION BY ONE PERSON.
 COORDINATE ALL LOCATIONS WITH METRA'S CONSTRUCTION MANAGER.

2.02 PLASTIC MESH FENCING

- AWHERE INDICATED ON DRAWINGS OR AS REQUIRED TO PROVIDE VISUAL WARNING AND CONTROL, PROVIDE PLASTIC MESH FENCING SUPPORTED BY STEEL POSTS DRIVEN INTO THE GROUND OR SET IN PRECAST CONCRETE BLOCKS. HEIGHT: 36 INCHES MINIMUM.
- COLOR: SAFETY ORANGE.
 COORDINATE ALL LOCATIONS WITH METRA'S CONSTRUCTION MANAGER.

- A. INSTALLATION OF TEMPORARY FENCING SHALL NOT DETER OR HINDER ACCESS TO
- EXISTING AND NEW HOSE CONNECTIONS AND FIRE HYDRANTS.

 1. MAINTAIN 3 FEET DIAMETER CLEAR SPACE AROUND FIRE HYDRANTS 2. WHERE FIRE HYDRANT OR HOSE CONNECTION IS BLOCKED BY FENCING.
- PROVIDE ACCESS GATE B. ACCESS: PROVIDE GATES FOR PERSONNEL, DELIVERY OF MATERIALS, AND ACCESS
- BY EMERGENCY VEHICLES. C. CORDINATE LAYOUT WITH METRA'S CONSTRUCTION MANAGER

- 2. DRIVE POSTS, SET IN HOLES AND BACKFILL, ANCHOR IN PRECAST BLOCKS, OR IN GALVANIZED BASE PLATES.
 3. FOR SOFT AND UNSTABLE GROUND CONDITIONS, CAST CONCRETE PLUG
- AROUND POST
- 4. POSTS OVER PAVEMENT: USE STEEL POST PLATES OR PRECAST CONCRETE 5. GATE POSTS: USE BRACING OR CONCRETE FOOTINGS TO PROVIDE RIGIDITY TO
- GATE POSTS: USE BRACING OR CONCRETE FOOTINGS TO PROVIDE RIGIL ACCOMMODATE SIZE OF GATE.
 FABRIC: SECURELY ATTACH TO POSTS.
 GATES: INSTALL WITH HARDWARE SUITABLE FOR LOCKING.
 PLASTIC MESH FERCING: SPACE STEEL SUPPORT POSTS TO ENSURE MESH REMAINS VERTICAL AND AT PROPER HEIGHT. SECURELY TIE TO POSTS

03 PROTECTION AND CLEANING

A MAINTAIN FENCING IN GOOD CONDITION IF DAMAGED IMMEDIATELY REPAIR A. MININTAIN FENONING IN GOOD CONTINUON: IT DIMINICALLY, INVINICIPAL THE REPAIR.

R. REMOVE TEMPORARY FENOING UPON COMPLETION OF WORK OR WHEN NO LONGER

REQUIRED FOR SECURITY OR CONTROL. BACKFILL ANY HOLES AND COMPACT.

HOLES IN PAVEMENT SHALL BE SUFFACE TO MATCH EXITING PAVING. REPAIR

DAMAGE CAUSED BY INSTALLATION OF TEMPORARY FENCING.

01 DESCRIPTION OF WORK THIS SECTION SPECIFIES ADMINISTRATIVE AND PROCEDURAL REQUIREMENTS FOR FIELD ENGINEERING SERVICES, INCLUDING BUT NOT NECESSARILY LIMITED TO LAND SURVEY WORK, CIVIL ENGINEERING SERVICES, STRUCTURAL ENGINEERING SERVICES AND ELECTRICAL ENGINEERING SERVICES. THE WORK LINDER THIS SECTION SHALL INCLUDE FURNISHING ALL LABOR MATERIALS, AND FOLIPMENT FOR SECTION SHALL INCLUDE FORMISHING ALL DADON, AND FERMLS, AND EQUIPMENT IN MAINTAINING EXISTING SURVEY CONTROL POINTS; LOCATE, ESTABLISH AND LAY OUT LINES, LEVELS AND GRADES REQUIRED FOR THE PROPER INSTALLATION OF WORK; SURVEY AND PREPARE AS BULLT PLANS, AND OTHER APPLITEMANT SERVICES REQUIRED FOR THE PROPER INSTALLATION OF THE WORK.

- .03 QUALITY CONTROL
- A. EMPLOY A LAND SURVEYOR LICENSED IN THE STATE OF ILLINOIS AND ACCEPTABLE
- EMPLOY ACMOST SWELFOR ELECTION IN THE STATE OF PILLINGS AND ACCES MAGE. TO METRAS CONSTRUCTION MANAGER. ULTIMATE RESPONSIBILITY FOR ALL LAYOUTS RESTS WITH THE CONTRACTOR. ENGAGE ARE MIGNERE OF THE DISCIPLINE REQUIRED, LICENSED IN THE STATE OF ILLINOIS, TO PERFORM THE REQUIRED ENGINEERING SERVICES.

- **04 SUBMITTALS**A. SUBMIT THE NAME, ADDRESS, AND TELEPHONE NUMBER FOR THE SURVEYOR BEFORE STARTING SURVEY WORK
- B. UPON REQUEST, SUBMIT DOCUMENTATION VERIFYING THE ACCURACY OF THE SURVEY WORK. C. SUBMIT A CERTIFICATE SIGNED BY THE LAND SURVEYOR THAT THE FLEVATIONS AND LOCATIONS OF THE WORK ARE IN CONFORMANCE WITH THE CONTRACT

DOCUMENTS.

- 05 PROJECT RECORD DOCUMENTS

 A. MAINTAIN A COMPLETE AND ACCURATE LOG OF CONTROL AND SURVEY WORK AS IT PROGRESSES.
- B. SUBMIT RECORD DOCUMENTS AS DESCRIBED IN THE PROVISIONS OF SECTION 01 78 10 PROJECT RECORD DOCUMENTS.

.06 EXAMINATION

- A. VERIFY THE LOCATIONS OF SURVEY CONTROL POINTS PRIOR TO STARTING WORK
 B. PROMPTLY NOTIFY METRA'S CONSTRUCTION MANAGER OF ANY DISCREPANCIES
- A. THE CONTRACTOR ISTO LOCATE AND PROTECT SURVEY CONTROL AND REFERENCE POINTS. B. THE CONTROL DATUM FOR THE SURVEY IS THAT INDICATED ON THE DRAWING C. PROTECT SURVEY CONTROL POINTS PRIOR TO STARTING SITE WORK AND PRESERVE PERMANENT REFERENCE POINTS (BENCH MARKS) DURING
- CONSTRUCTION D. PROMPTLY REPORT TO METRA'S CONSTRUCTION MANAGER THE LOSS OF
- PROMITTIC REPORT IN METINAS CONTRIBUTION MANUSCEN THE LOSS ON DESTRUCTION OF ANY REFERENCE POINT OR RELOCATION RECUIRED BECAUSE OF CHANGES IN GRADES OR OTHER REASONS.
 REPLACE DISLOCATED SURVEY CONTROL POINTS BASED ON ORIGINAL SURVEY CONTROL. MAKE NO CHANGES WITHOUT A PRIOR WRITTEN NOTICE TO METRA'S CONTROLL MAKE NO CHANGES WITHOUT A PRIOR WRITTEN NOTICE TO METRA'S CONSTRUCTION MANAGER

.08 SURVEY REQUIREMENTS

- A. PROVIDE FIELD ENGINEERING SERVICES. UTILIZE RECOGNIZED ENGINEERING SURVEY PRACTICES. B. ESTABLISH ELEVATIONS, LINES AND LEVELS. LOCATE AND LAYOUT BY
- ESTRIBLISH ELEVATION, SILMES AND EVERS. LOCATE ANNO LAT OUT OF INSTRUMENTATION AND SIMULAR APPROPRIATE MEANS:

 1. SITE IMPROVEMENTS INCLUDING PAYEMENT, CURBING AND SIDEWALKS; TOP OF GRADE AND INVERT ELEVATIONS; TOP OF BALLAST AND BRIDGE FILL MATERIAL.

 2. STRUCTURAL IMPROVEMENTS INCLUDE ALL BRIDGES AND RETAINING WALLS.

METRA SAFETY AND LOSS PREVENTION 1.01 DESCRIPTION

A. THIS SECTION SPECIFIES REQUIREMENTS FOR THE DEVELOPMENT AND EXECUTION OF SAFETY AND LOSS PREVENTION PROCEDURES BY THE CONTRACTOR AS APPLICABLE TO THE EXECUTION OF THE WORK.

C. PERIODICALLY VERIFY LAYOUTS BY THE SAME MEANS

- 1.03 REQUIREMENTS OF REGULATORY AGENCIES

 A. CODES AND STANDARDS: THE CONTRACTOR MUST COMPLY WITH THE REQUIREMENTS OF ALL LAWS AND THE REGULATIONS OF ALL AUTHORITIES HAVING

 THE REGULATION OF THE REGULATIONS OF ALL AUTHORITIES HAVING

 THE REGULATION OF THE REGULATIONS OF ALL AUTHORITIES HAVING

 THE REGULATION OF THE REGULATION OF THE REGULATIONS OF THE REGULATION OF TH
- JURISDICTION OVER THE WORK. B. PUBLIC LAW 91-596: 91ST CONGRESS 5,2193: DECEMBER 29, 1970
- OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA), AS AMENDED.
 PUBLIC LAW 100-342; 100TH CONGRESS, 102,624; JUNE 22, 1998.
 RAIL SAFETY IMPROVEMENT ACT OF 1988 (FRSA), AS AMENDED.

1.04 PROTECTIVE MEASURES
A. THE CONTRACTOR MUST TAKE THOROUGH PRECAUTIONS AT ALL TIMES FOR THE PROTECTION OF PERSONS AND PROPERTY, AND WILL BE LIABLE FOR ALL DAMAGES TO PERSONS OR PROPERTY, EITHER ON OR OFF OF THE SITE, WHICH OCCUR AS A RESULT OF ITS EXECUTION OF THE WORK.

A. THE CONTRACTOR MUST OBTAIN PERMITS FOR, INSTALL, AND MAINTAIN THE CONTRACTOR MUST OBTAIN PERMITS FOR, INSTRUCT, AND INSTRUCTOR BARRICADES, WALKWAYS, FENCES, RALINGS, AND WHATEVER OTHER SAFEGUARDS THAT MAY BE NECESSARY TO PROTECT PERSONS AND PROPERTY FROM DAMAGE

- 06 SAFETY AND LOSS PREVENTION PROGRAM

 A. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING A SAFETY AND LOSS PREVENTION PROGRAM COVERING ALL WORK PERFORMED BY IT AND ITS SUBCONTRACTORS. THE CONTRACTOR MUST DESIGNATE A RESPONSIBLE MEMBEI OF ITS ORGANIZATION WHOSE DUTIES WILL INCLUDE LOSS AND ACCIDENT PREVENTION, AND WHO WILL HAVE THE RESPONSIBILITY AND FULL ALITHORITY TO PREVENTION, AND WHO WILL HAVE THE RESPONSIBILITY AND PULZ AUTHORITY I ENFORCE THE PROGRAM. THE PERSON MUST HOLD MEETINGS WITH THE REPRESENTATIVES OF THE VARIOUS TRADES EMPLOYED TO ENSURE THAT ALL EMPLOYEES UNDERSTAND AND COMPLY WITH THE PROGRAM. THE CONTROL MUST FURNISH A COPY OF THE SAFETY AND LOSS PREVENTION PROGRAM TO METRA FOR REVIEW. B. THE CONTRACTOR MUST COOPERATE FULLY WITH METRA, ALL INSURANCE CARRIERS AND LOSS PREVENTION ENGINEERS ON LOSS AND ACCIDENT DEPLOYED.
- PREVENTION.
- C. ALL CONTRACTORS, SUBCONTRACTORS, AND MATERIAL SUPPLIERS MUST COOPERATE FULLY WITH ALL INTERESTED PARTIES ON ACCIDENT PREVENTION AND CLAIM HANDLING PROCEDURES.
- CLAIM HANDLING PROCEDURES.

 THE CONTRACTOR MUST FROMPILY REPORT IN WRITING TO METRA, ALL ACCIDENTS WHATSOEVER ARISING OUT OF, OR IN CONNECTION WITH, THE PERFORMANCE OF THE WORK, WHETHER ON OR OFF OF THE SITE, WHICH CAUSE DEATH, PERSONAL INJURY OR PROPERTY DAMAGE, GIVING FULL DETAILS AND STATEMENTS OF WITNESSES. IN ADDITION, IF DEATH, SERIOUS INJURIES OR SERIOUS DAMAGES ARE CAUSED, THE ACCIDENT MUST BE PERPORTED MANEDIATE BY ATTEMPHATE. CAUSED, THE ACCIDENT MUST BE REPORTED IMMEDIATELY BY TELEPHONE OR MESSENGER. IF ANY CLAIM IS MADE BY ANYONE AGAINST THE CONTRACTOR OR AN' SUBCONTRACTOR ON ACCOUNT OF ANY ACCIDENT. THE CONTRACTOR MUST PROMPTLY REPORT THE FACTS, IN WRITING, TO METRA, GIVING FULL DETAILS OF
- THE CONTRACTOR MUST SUBMIT THE CONTRACTOR'S AND SUBCONTRACTOR'S SAFETY PLANS TO METRA FOR REVIEW.

- 37 OBSERVATION

 DURING PERIODIC VISITS TO THE JOB SITE, METRA'S CONSTRUCTION MANAGER IS TO OBSERVE THE SITE FOR SAFETY ON AN INFORMATIONAL BASIS ONLY, MOT AS AN OFFICIAL AGENCY, IF METRA'S CONSTRUCTION MANAGER OSSERVES A CONDITION CONSIDERED TO BE LINEAFE THE CONTRACTOR'S SUPERINTENDENT IS TO BE ADVISE! VERBALLY OF THE OBSERVED CONDITION, AND THE CONDITION IS TO BE RECORDED IN THE ENGINEER'S LOG REPORT.
- IE THE CONDITION REPRESENTS AN IMMINENT DANGER IN THE OPINION OF METRA'S IF THE COUNTITION FERENESINS AN IMMINISHED LANGER IN THE CHINICH OF METAL ACCONSTRUCTION MANAGER TO PERSONS OR PROPERTY, AND THE CONTRACTOR, AFTER BEING VERBALLY NOTIFIED, DOES NOT IMMEDIATELY CORRECT THE CONDITION, THE OBSERVER IS TO CONTRACT METAL PROJECT MANAGER, 547 WEST JACKSON BOULEVARD, CHICAGO, ILLINOIS 60661, AT 312-322-4736. A VERBAL CALL MUST BE

08 OBSERVANCE OF GENERAL CODE OF OPERATION RULES
. THE CONTRACTOR MUST COMPLY WITH ALL RULES AND REGULATIONS CONTAINED IN THE GENERAL CODE OF OPERATION RULES, ADOPTED BY METRA WITH A PARTICULAR EMPHASIS ON RULE G WHICH PROHIBITS THE USE OF ALCOHOLIC BEVERAGES, DRUGS ETC. ON METRA PROPERTY ANY VIOLATION WILL RESULT IN PERMANENT REMOVAL ETC. ON METRY PROPERTY. ANY VIOLATION WILL RESULT IN PERMANENT REMOVAL FROM THE PROJECT. ALSO, WORKERS MUST WEAR HARD HATS, EYE PROTECTION, AND SAFETY BOOTS WHEN WORKING ON METRA PROPERTY, AND THE CONTRACTOR SHALL FURNISH HARD HATS FOR VISITORS TO THE SITE.

US WURKER SAFE IT
THE CONTRACTOR MUST FOLLOW ALL OF THE REGULATIONS ISSUED UNDER THE
FEDERAL RAILWAY ADMINISTRATION (SEE 1.03, D ABOVE) REGARDING RAILROAD WORKPLACE SAFETY AND ROADWAY WORKER SAFETY STANDARDS, NO EMPLOYEE WIL BE ALLOWED TO BEGIN WORK ON RAILROAD PROPERTY EACH DAY UNTIL THE DAILY JOB BRIEFING IS HELD WITH THE RAILROAD'S EMPLOYEE IN CHARGE

- 1.10 PENALTIES FOR NON-COMPLIANCE

 A. COMPLIANCE WITH THESE SAFETY AND LOSS PREVENTION CONDITIONS IS CONSIDERE
 BY METRA TO BE OF PRIMARY HIMPATANCE. THEREFORE, METRAS CONSTRUCTION
 MANAGER WILL TAKE THE FOLLOWING STEPS IN THE EVENT THAT THE CONTRACTOR
 FAILS TO COMPLY WITH THESE SAFETY AND LOSS PREVENTION CONDITIONS:

 1. MINIOR INFLOCTIONS OF ALTER SAFETY AND LOSS PREVENTION CONDITIONS.
- MINOR INFRACTIONS OF THE SAFETY AND LOSS PREVENTION CONDITIONS:
 MINOR INFRACTIONS OF THE SAFETY AND LOSS PREVENTION CONDITIONS MUST BE VERBALLY BROUGHT TO THE ATTENTION OF THE CONTRACTOR'S SUPERINTENDENT BY METRA'S CONSTRUCTION MANAGER. IT IS EXPECTED THAT THE SUPERINTENDENT WILL PROMPTLY TAKE THE NECESSARY STEPS TO CORRECT THE
- SUPERIN LENDENT WILL PROMPTLY TAKE THE NECESSARY SLEPS TO CONRECT THE INFRACTIONS.

 REPEATED MINOR INFRACTIONS OF THE SAFETY AND LOSS PREVENTION CONDITIONS OF FALLURE OF THE SUPERINTENDENT TO PROMPTLY CORRECT MINOR INFRACTIONS POINTED OUT BY METRA'S CONSTRUCTION MANAGER.

 REPEATED MINOR INFRACTIONS OR INFRACTIONS THAT ARE NOT PROMPTLY CORRECTED BY THE SUPERINTENDENT WILL RESULT IN THE CONTRACTOR BEING ADVISED IN MADRITUS BY METRA'S CONSTRUCTION MANAGER OF SICH VIGUATIONS. ADVISED IN WRITING BY METRA'S CONSTRUCTION MANAGER OF SUCH VIOLATIONS AND WILL REQUIRE THE CONTRACTOR TO RESPOND IN WRITING AS TO WHAT STEPS ARE TO BE TAKEN TO CORRECT THE INFRACTIONS AND TO TAKE IMMEDIATE CORRECTIVE ACTION. IT IS REQUIRED THAT ALL CORRECTIVE ACTIONS WILL BE COMPLETED AS DESCRIBED AND DETAILED IN WRITING, ADDITIONALLY, THESE
- COMPLETED AS DESCRIBED AND DETAILED IN WRITING, ADDITIONALLY, THESE INFRACTIONS WILL BE DISCUSSED AND DOCUMENTED AT THE WEEKLY PROGRESS MEETINGS.

 SERIOUS VIOLATIONS OF THE SAFETY AND LOSS PREVENTION CONDITIONS OR FAILURE BY THE CONTRACTOR TO TAKE THE CORRECTIVE ACTIONS OUTLINED IN PARAGRAPH 2 OF THE PENALTIES FOR NON-COMPLIANCE ABOVE:

 ETHIC CONTRACTOR CALL BY CONTRACTOR OF THE STEPS OUTLINE.
- . IF THE CONTRACTOR FAILS TO SATISFACTORILY RESPOND TO THE STEPS OUTLINED IN PARAGRAPH 2, THE CHIEF ENGINEERING OFFICER OF METRA WILL ISSUE THE SUPERINTENDENT A WRITTEN "STOP WORK ORDER" THAT WILL REQUIRE THE CONTRACTOR AND ALL SUBCONTRACTORS TO IMMEDIATELY CEASE ALL WORK ACTIVITY ON THE PROJECT AND FOR ALL NON-SUPERVISORY PERSONNEL OF THE CONTRACTOR AND ALL OF ITS SUBCONTRACTORS TO IMMEDIATELY VACATE
- CONTRACTOR AND ALL OF ITS SUBCONTRACTORS TO IMMEDIATELY VACATE METRA'S PREMISES.

 ADDITIONALLY, IF ANY EMPLOYEES OF THE CONTRACTOR OR ANY SUBCONTRACTOR SERIOUSLY VIOLATE THE REQUIREMENTS OF THE SAFETY AND LOSS PREVENTION CONDITIONS, A WRITTEN 'STOP WORK ORDER' WILL BE ISSUED BY METRA'S CHIEF ENGINEERING OFFICER WITH THE SAME REQUIREMENTS AND CONDITIONS DETAILED IN THE DEPORTING PRADE PARAMETERS AND CONDITIONS DETAILED IN THE PROPERTIES AND CONDITIONS DETAILED. IN THE PRECEDING PARAGRAPH. SUCH SERIOUS VIOLATIONS MUST INCLUDE, BUT WILL NOT BE LIMITED TO. THE FOLLOWING:
- FAILURE BY THE CONTRACTOR OR ANY SUBCONTRACTOR PERSONNEL TO COMPLY WITH FRA OR METRA REQUIREMENTS FOR FALL PROTECTION WHILE COMPLY WITH FRA OR METRA REQUIREMENTS FOR FALL PROTECTION WHILE WORKING ON BRIDGES.

 FAILURE BY THE CONTRACTOR OR ANY SUBCONTRACTOR PERSONNEL TO COMPLY WITH FRA OR METRA REQUIREMENTS FOR ON TRACK SAFETY ANDIOR ROADWAY WORKER PROTECTION.

 REFUSAL BY THE CONTRACTOR OR ANY SUBCONTRACTOR PERSONNEL TO OBEY THE COMPLANT AND REPORT AND ANY SUBCONTRACTOR PERSONNEL TO OBEY THE COMPLANT AND REPORT AND AND THE PROPERTY OF THE PROPERTY OF
- THE SIGNALS AND DIRECTIONS GIVEN TO THEM BY THE METRA FLAGMAN.

 d. PERSONNEL OF THE CONTRACTOR OR ANY SUBCONTRACTOR PERFORMING WORK AT TRACK LEVEL OR WITHIN 25' OF ANY TRACK OUTSIDE THE HOURS

PERSONNEL OF THE CONTRACTOR OR ANY SUBCONTRACTOR PERFORMING
WORK AT TRACK LEVEL OR WITHIN 25 OF ANY TRACK AT ANY TIME WITHOUT A
METRA FLAGMAN BEING PRESENT.

SPECIFIED IN THE DETAILED SPECIFICATIONS.

- ANY ACTIVITY OF THE CONTRACTOR OR ANY SUBCONTRACTOR THAT CAUSES OR DIRECTLY CONTRIBUTES TO AN FRA REPORTABLE INJURY TO ANY ON-DUTY DIRECTLY CONTRIBUTES 10 AN FRA REPORTABLE INJUST 10 ANY ON-DUTY EMPHOYED FOR METRA.
 INTENTIONAL RETURN OF AN INDIVIDUAL EMPLOYED BY THE CONTRICTOR OR ANY SUBCONTRACTOR OF THE PROJECT ADDIOR PREMISES OF METRA BARRED UNDER THE CONDITIONS DESCRIBED IN SECTION 1.08, A AND SECTION 1.10, 3.
- ANY ACTIVITY OF THE CONTRACTOR OR ANY SUBCONTRACTOR THAT CAUSES OF DIRECTLY CONTRIBUTES TO A DERAILMENT OR ANY OTHER TRAIN ACCIDENT.

HASSAULT ON AN EMPLOYEE OF METRA BY AN EMPLOYEE OF THE CONTRACTOR

FOUIPMENT

CONDITIONS.

OR ANY SUBCONTRACTOR.

- AFTER ISSUANCE OF A "STOP WORK ORDER", METRA'S CHIEF ENGINEERING OFFICER WILL IMMEDIATELY MEET WITH METRA'S CONSTRUCTION MANAGER AND OFFICER WILL IMMEDIATELY MEET WITH METRA'S CONSTRUCTION MANAGER AN ITES SUPERINTENDENT ON SIFTED DISCUSS WHAT STEPS WILL BE TAKEN TO RESUME CONSTRUCTION ACTIVITY ON THE PROJECT. THE SUPERINTENDENT WILL BE ISSUED A WRITTEN SET OF INSTRUCTIONS BY METRA'S CHIEF ENGINEERING OFFICER DETAILING WHAT WORK MUST BE DONE TO BRING THE PROJECT BACK INTO COMPLIANCE WITH THE SAFETY AND LOSS PREVENTION CONDITIONS, ANY WORK ACTIVITY BY THE CONTRACTOR OR ANY SUBCONTRACTOR AT THIS TIME WILL BE LIMITED TO THE CORRECTIVE ACTION SECURIOR OF SINCE ANY MORK ACTIVITY BY THE CONTRACTOR OR ANY REQUIRED TO BRING THE PROJECT BACK INTO COMPLIANCE WITH THESE
- M. AT THIS TIME, METRA'S CHIEF ENGINEERING OFFICER MAY REQUIRE THAT ONE OR MORE EMPLOYEES OF THE CONTRACTOR OR ANY SUBCONTRACTOR BE PROHIBITED FROM WORKING ON THE PROJECT OR OCCUPYING METRA'S PROJEIBITED FROM WORKING ON THE PROJECT OF OCCUPYING MEI RA'S PROPERTY. THE SUPERINTENDENT WILL THEN BE REQUIRED TO FURNISH METRA'S CHIEF ENGINEERING OFFICER WITH THE NAME OF THOSE INDIVIDUALS. WHEN CORRECTIVE ACTION HAS BEEN COMPLETED, AND THE PROJECT HAS BEEN BROUGHT BACK INTO COMPLIANCE WITH THE SAFETY AND LOSS.
- PREVENTION CONDITIONS, METRA'S CHIEF ENGINEERING OFFICER WILL ISSUE A WRITTEN "RESUME WORK ORDER" TO THE SUPERINTENDENT. 1. NOTE: ANY TIME LOST BY THE CONTRACTOR RESULTING FROM THE ENFORCEMENT BY METRA OF "PENALTIES FOR NON-COMPLIANCE" WILL COUNT AS CONTRACT DAYS, ANY REQUESTS BY THE CONTRACTOR FOR A CONTRACT EXTENSION WILL BE DENIED.

. ANY ADDITIONAL SERIOUS VIOLATIONS OF THE SAFETY AND LOSS PREVENTION

- NITONS

 a. IN THE EVENT THAT THE CONTRACTOR OR ANY SUBCONTRACTOR SERIOUSLY
 VIOLATES THE SAFETY AND LOSS PREVENTION CONDITIONS AGAIN, A WRITTEN
 "STOP WORK ORDER" WILL BE ISSUED TO THE SUPERINTENDENT BY METRA. ALL
 WORK ON THE PROJECT WILL IMMEDIATELY CEASE AND ALL EMPLOYEES OF THE CONTRACTOR AND ALL OF ITS SUBCONTRACTORS WILL IMMEDIATELY VACATE THE PREMISES OF METRA
- AFTER ISSUANCE OF A SECOND AND SUBSEQUENT "STOP WORK ORDER(S)". THE AFTER ISSUANCE OF A SECOND AND SUBSECUENT "STOP WORK DORERS); THE PRESIDENT, CHIEF EXECUTIVE OFFICER, OR EQUIVALENT OF THE CONTRACTOR MUST CONTACT THE DEPUTY EXECUTIVE DIRECTOR, OPERATIONS OF METRA, IN WRITING, TO REQUEST THAT A HEARING BE HELD TO DISCUSS WHAT STEPS MUST BE TAKEN BY THE CONTRACTOR TO RESUME WORK ON THE PROJECT. A HEARING WILL BE SCHEDULED AT THE EARLIEST OPPORTUNITY BY THE DEPUTY EXECUTIVE DIRECTOR DEPOTATIONS OR METRA AT FACT MEST LOCKSON. EXECUTIVE DIRECTOR, OPERATIONS OF METRA AT 547 WEST JACKSON
- AT THE HEARING, IT WILL BE THE RESPONSIBILITY OF THE PRESIDENT, CHIEF EXECUTIVE OFFICER, OR EQUIVALENT OF THE CONTRACTOR TO MAKE A PRESENTATION TO METRA DETAILING WHAT STEPS WILL BE TAKEN BY THE CONTRACTOR TO BRING THE PROJECT BACK INTO COMPLIANCE WITH THE SAFETY AND LOSS PREVENTION CONDITIONS OF THE CONTRACT AND WHAT SAFETY AND LOSS PHEVENTION CONTINONS OF THE CONTRACT AND WHAT STEPS WILL BE TAKEN BY THE CONTRACTOR TO INSURE THAT NO ADDITIONAL VIOLATIONS OF THE CONDITIONS OF THIS SECTION WILL GCOUR ACCEPTANCE OR DENIAL OF THE PRESENTATION WILL BE AT THE DISCRETION OF THE DEPUT EXECUTIVE DIRECTOR, OPERATIONS OF METRA.
- d. WHEN THE DEPUTY EXECUTIVE DIRECTOR, OPERATIONS OF METRA HAS BEEN SATISFIED THAT THE PROPER CORRECTIVE MEASURES WILL BE TAKEN BY THE CONTRACTOR. THE CONTRACTOR WILL BE ISSUED WRITTEN INSTRUCTIONS REGARDING WHAT STEPS MUST BE TAKEN PRIOR TO RECEIVING A WRITTEN "RESUME WORK ORDER". ALL ACTIVITY BY THE CONTRACTOR AND ANY SUBCONTRACTOR ON SUBCONTRACTION ON THE PROMISE OF METRA DURING THIS TIME WILL BE LIMITED TO THE CORRECTIVE MEASURES THAT WILL BRING THE PROJECT BACK INTO COMPLIANCE WITH THE SAFETY AND LOSS PREVENTION CONDITIONS.
- WHEN ALL CORRECTIVE WORK HAS BEEN COMPLETED, THE CONTRACTOR WILL BE ISSUED A WRITTEN "RESUME WORK ORDER" BY METRA NOTE: AS STATED PREVIOUSLY, ANY TIME LOST BY THE CONTRACTOR RESULTING FROM THE ENFORCEMENT BY METRA OF "PENALTIES FOR NON-COMPLIANCE" WILL COUNT AS CONTRACT DAYS. ANY REQUESTS BY THE CONTRACTOR FOR A CONTRACT EXTENSION WILL BE DENIED.

- PERSONNEL OF THE CONTRACTOR OR ANY SUBCONTRACTOR PERFORMING
 WORK ON METRA PROPERTY AFTER ISSUANCE OF A "STOP WORK ORDER".
 FAILURE BY THE CONTRACTOR OR ANY SUBCONTRACTOR PERSONNEL TO METRA DAMAGE TO UTILITIES MAINTAIN THE PREMISES OF METRA IN A SECURE CONDITION WHICH COU
- THIS SECTION SPECIFIES REQUIREMENTS FOR DAMAGES TO UTILITIES. THE WORK UNDER THIS SECTION SHALL INCLUDE FURNISHING ALL LABOR, MATERIALS, TOOLS, ANI EQUIPMENT REQUIRED TO REPAIR ANY DAMAGES CAUSED BY THE CONTRACTOR AT POTENTIALLY RESULT IN AN ACCIDENT OR DAMAGE TO RAILROAD PROPERTY OF

- AT THE CONTRACTOR FIRST CONTRACT BULLE (1800-882-1123) TO EXPEDITE UTILITIES WHENEVER ANY WORK THAT IS REQUIRED UNDER ANY UTILITY AGREEMENTS MUST BE PERFORMED IN CONJUNCTION WITH THE CONTRACTOR FIRST CONTRACT JULLE (1800-882-1123) TO EXPEDITE UTILITY AGREEMENTS MUST BE PERFORMED IN CONJUNCTION WITH THE CONTRACTOR FIRST CONTRACT JULLE (1800-882-1123) TO EXPEDITE UTILITY AGREEMENT AND THE CONTRACTOR FIRST CONTRACT JULLE (1800-882-1123) TO EXPEDITE UTILITY AND THE CONTRACTOR FIRST CONTRACT JULLE (1800-882-1123) TO EXPEDITE UTILITY THAT AGE NOTIFICATION. THE CONTRACTOR SHALL CONTACT EACH INDIVIDUAL UTILITY THAT ARE NOT MEMBERS OF THE J.U.L.I.E. SYSTEM, WHICH MAY BE AFFECTED BY THE WORK TO DETERMINE WHETHER OTHER INTERFERENCES EXIST AND FOR ANY OTHER REQUIREMENTS RELATING TO WORK INVOLVING ANY UTILITY FACILITIES PRIOR TO SUBMITTING ITS BID PROPOSAL
- SUBMIT INS 11S HID PROPUSAL.

 THE CONTRACTOR SHALL PROCURE ALL PERMITS AND LICENSES, PAY ALL CHARGES AND FEES, AND GIVE ALLNOTICES NECESSARY AND INCIDENT TO THE DUE AND LAWFUL PROSECUTION OF THE WORK, INCLUDING SUCH PERMITS AND LICENSES AS MAY BE REQUIRED IN CONNECTION WITH THE TRANSPORTATION OF MATERIALS OR EQUIPMENT OVER ROADS, STREETS, HIGHWAYS, OR RAILROADS.

 IT IS UNDERSTOOD AND AGREED THAT THE CONTRACTOR HAS TAKEN INTO ACCOUNT IN ITS PROPOSAL ALL UTILITY FACILITIES IN THEIR PRESENT AND RELOCATED POSITIONS, AND ALL UTILITY AND INSTINCTIONAL DEPOLATION MORE WAILLY MAIL ASSECT YEAR.
- AND ALL UTILITY ADJUSTMENT AND RELOCATION WORK WHICH WILL AFFECT ITS PROGRESS AND PERFORMANCE OF THE WORK, NO DAMAGES OR ADDITIONAL COMPENSATION WILL BE ALLOWED TO THE CONTRACTOR FOR ANY DELAYS OR INCONVENIENCE SLISTAINED BY
- INCONVENIENCE SUSTAINED BY
 THE CONTRACTOR DUE TO INTERFERENCE FROM UTILITY FACILITIES OR UTILITY
 ADJUSTMENT OR RELOCATION WORK.
 THE CONTRACTOR SHALL NOT INTERFERE WITH OR CAUSE DAMAGE TO OR
 INTERRUPTION OF ANY FACILITIES OF ANY UTILITY, WHETHER OR NOT THEY ARE THE
 SUBJECT OF ANY UTILITY AGREEMENT. THE CONTRACTOR SHALL IMMEDIATELY INFORM.
 THE AREFCREED INTUITY AND USE MODITED MOTOR THEY ARE THE THE AFFECTED UTILITY AND GIVE WRITTEN NOTICE TO METRA WHENEVER THE CONTRACTOR HAS INTERFERED WITH OR CAUSED DAMAGE TO OR INTERRUPTION OF ANY FACILITIES OF ANY UTILITY, THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY IN THE PROMPT REPAIR AND RESTORATION OF SUCH UTILITY FACILITY AND SHALL BE RESPONSIBLE TO THE UTILITY FOR THE COST OF SUCH PEPAR AND THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MAINTAINING ITS PERFORMANCE OF THE CONTRACT AND COMPLETING THE WORK BY THE COMPLETION
- PERFORMANCE OF THE CONTRACT AND COMPLETING THE WORK BY THE COMPLETION DATE DESPITE THE CONTRACTOR'S INTERFERENCE WITH OR INTERRUPTION OF ANY FACILITIES OF ANY UTILITY.

 ANY POSTS THAT ARE TO BE LOCATED NEAR OR OVER ANY BURIED CABLE SHALL BE INSTALLED BY FIRST DIGGING A HOLE BY HAND, AND THEN INSTALLING THE POST AND BACK-FILLING THE POST AND BACK-FILLING THE FORT AND BACK-FILLING THE FOLD. NO POSTS SHALL BE DRIVEN UNDER SUCH CONDITIONS. CARE SHALL BE TAKEN WHILE DIGGING BY HAND SO AS NOT TO DAMAGE THE CABLE. ALL EFFORTS ON METRA'S PART TO ADVISE THE CONTRACTOR AS TO THE LOCATIONS OF UNDERGROUND CABLES NOTWITHSTANDING, IT SHALL BE UNDERSTOOD THAT SUCH EFFORTS BY METRA SHALL NOT RELIEVE THE CONTRACTOR OF ANY RESPONSIBILITY FOR RESTORING DAMAGE RESULTING FROM THE ACTIVITIES OF ANY EMPLOYEE.
- FOR RES TORING DAMAGE RESULTING FROM THE ACTIVITIES OF ATT EMPLOTEE, SUBCONTRACTOR, AGENT, OR REPRESENTATIVE OF THE CONTRACTOR.

 THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR NOTIFYING OWNERS OF OTHER CABLES AND UNDERGROUND FACILITIES WHICH MAY BE JEOPARDIZED BY THE CONTRACTOR'S OPERATIONS IN THE SAME MANNER AS REQUIRED FOR NOTICE TO



SIGNED BY **CLARENDON HILLS** BUILDING STATE OF ILLINOIS ΤZ 1003 DUPAGE 79 **EGAT**ARCHITECTS AWN BY 16-00045-01-MS **DOWNTOWN REVITILIZATION** A-042 METRA REQUIREMENTS HECKED BY EM REVISED 61G62 DEPARTMENT OF TRANSPORTATION ESIGN | PERFORMANCE | SUSTAINABILIT 05 15 20

GENERAL

GE.01 BEFORE SUBMITTING A PROPOSAL FOR THIS WORK, THE CONTRACTOR SHALL VISIT THE PREMISES AND ACQUIANT HINSELF HERSELF FULLY WITH THE EXISTING CONDITIONS, TEMPORARY CONSTRUCTION REQUIRED, QUANTITIES AND TYPES OF EQUIPMENT REQUIRED, EARTH SHALL INCLIDE SHALL INCLIDE ALL SUMS REQUIRED TO DO THE WORK WITHIN THE EXISTING CONDITIONS. DISRUPTION OF NORMAL ACTIVITIES IN THE WORK AREA MUST BE KEPT TO A MININIUM.

GE.02 THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONSTRUCTION, DIMENSIONS, MEMBER SIZES, AND ELEVATIONS FOR CONFORMANCE WITH THE DRAWINGS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.

GE 03 UNLESS NOTED OTHERWISE, DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR CONDITIONS.

GE.04 DIMENSIONS ON STRUCTURAL DRAWINGS ARE TO BE CHECKED AGAINST THE DRAWINGS OF OTHER DISCIPLINES, AND ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT

GE.05 COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR LINTELS, METAL WALL FRAMING, SHELF ANGLES, SIZE AND LOCATION OF SLOPES, DEPRESSED AREAS, FINISH FILLS, CHAMFERS, GROOVES,

GE.06 COORDINATE WITH MECHANICAL/ELECTRICAL/PLUMBING DRAWINGS FOR DUCTWORK, PIPE SLEEVES, FLOOR DRAINS, INSERTS, HANGERS, TRENCHES, PITS, PADS, WALL AND SUD AGE OPENINGS, CONDUIT RUNS IN WALLS AND SLABS, SIZE AND LOCATION OF MACHINE OR EQUIPMENT SUPPORTS, BASES, ANCHOR BOLTS,

GE.07 ELEVATIONS SHOWN REFER TO PROJECT DATUM 100'-0" = 728.32'

GE.08 SHOP DRAWINGS PREPARED BY THE CONTRACTOR AND/OR HIS SUPPLIERS SHALL BE REVIEWED BY THE ARCHITECT ONLY FOR CONFORMANCE WITH THE DESIGN INTENT. NO WORK SHALL BE STARTED WITHOUT SUCH REVIEW.

GE.09 SHOP DRAWINGS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED BY THE CONTRACTOR PRIOR TO SUBMISSION TO THE ENGINEER

GE.10 DESIGN LOADS, ALLOWABLE STRESSES AND STRUCTURAL CAPACITIES ARE BASED ON THE IBC 2015, WITH LOCAL AMENDMENTS.

MAIN WIND RESISTING SYSTEM COMPONENTS & CLADDING DESIGN FLOOR AND ROOF LIVE LOADS GREEN ROOF ROOF SNOW 25 PSF

GE.11 SHOP DRAWING SUBMITTALS TO ARCHITECT/ENGINEER ARE REQUIRED FOR ALL PRE-FABRICATED

EB.01 BEFORE ANY OTHER BUILDINGS OPERATIONS ARE STARTED, REMOVE ALL BITUMINOUS PAVEMENT, LOOSE GRAVEL, ABANDONED FOUNDATIONS, BLACK LOAM, ORGANIC MATERIAL, AND FILL ENCOUNTERED WITHIN THE AREA TO BE OCCUPIED BY NEW CONSTRUCTION. NONE OF THIS MATERIAL OR OTHER EXCAVATED ON SITE SOLIS, WHICH ARE FOUND TO BE UNSUITABLE, SHALL BE USED FOR FILL WITHIN OR ADJACENT TO THE BUILDING. STOKE GRAVEL ON SITE FOR POTENTIAL REUSE.

EB.02 GENERAL MACHINE EXCAVATION FOR FOOTINGS SHALL STOP NOT LESS THAN 6" ABOVE SCHEDULED ELEVATIONS OF BOTTOMS OF FOOTINGS. FINAL EXCAVATION TO UNDISTRIBED SOIL AT REQUIRED FOOTING ELEVATION SHALL BE DONE BY HAND NOT MORE THAN 48 HOURS BEFORE THE

EB.03 ALL NECESSARY CHANGES IN ELEVATION OF WALL FOOTINGS SHALL BE MADE IN STEPS OF NOT MORE THAN 2'-0" HIGH AND A MINIMUM OF 4'-0" APART, EXCEPT AS OTHERWISE DETAILED.

EB.04 AFTER EXCAVATING FOR ALL EARTH-SUPPORTED SLABS AND PRIOR TO PLACING FILL, THE EXPOSED NATURAL SOIL SHALL BE COMPACTED TO 95% OF ASTM D-1557 (MODIFIED PROCTOR) MAXIMUM DENSITY AT PTIMUM MOISTURE CONTENT.

EB.05 SEE GEOTECHNICAL REPORT FOR FOUNDATION BACKFILL AND FILL REQUIRED TO ESTABLISH FINAL SUB-GRADES. ALL EARTH-SUPPORTED SLABS SHALL HAVE AT LEAST 6" OF CA6 DIRECTLY BELOW THE SLAB COMPACTED TO 95% OF ASTM D-1557 (MODIFIED PROCTOR) MAXIMUM DENSITY AT OPTIMUM MOISTURE

EB.06 BACKFILL PLACED DIRECTLY ADJACENT TO BASEMENT AND RETAINING WALLS SHALL BE CAS COMPACTED TO 95% OF ASTM D-1557 (MODIFIED PROTOR) IMAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT. AT 1700 FO BACKFILL PROVIDE 1-8" OF CAS COMPACTED TO 95% OF ASTM D-1557 (MODIFIED PROCTOR) MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT.

EB.07 ALL SOIL SUPPORTED FOUNDATIONS SHALL BE FOUNDED UPON UNDISTURBED, NATURAL SUBGRADE WITH A MINIMUM ALL OWABLE BEARING CAPACITY OF 3,000 PSF, AS INDICATED IN THE GEOTECHNICAL REPORT REFERENCED IN NOTE EB.14 AND AS FIELD VERIFIED AND APPROVED BY THE OWNER'S SOIL TESTING LABORATORY. THE FOOTING ELEVATIONS AND SOIL BEARING CAPACITIES AS SHOWN ON THE DRAWINGS ARE ESTIMATED FROM THE SOIL BORNIC DATA. FINAL, EXACT ELEVATIONS AND SOIL BEARING CAPACITIES AS SHOWN ON THE DRAWINGS ARE ESTIMATED FROM THE SOIL BORNIC DATA. FINAL, EXACT ELEVATIONS AND SOIL BEARING CAPACITIES SHALL BE FIELD DETERMINED AND VERIFIED BY THE OWNER'S SOIL TESTING LABORATORY AND REVIEWED BY THE ARCHITECTIENGINEER PRIOR TO PLACEMENT OF CONCRETE. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN THE EVENT THAT THE SOIL CONDITIONS NCOUNTERED VARY FROM THOSE ASSUMED IN THE DESIGN.

EB.08 DO NOT BACKFILL AGAINST BASEMENT WALLS UNTIL GROUND FLOOR AND LOWER LEVEL SLABS HAVE BEEN PLACED AND THE CONCRETE HAS ATTAINED FULL DESIGN STRENGTH.

EB.09 BACKFILL AGAINST SIDES OF FOUNDATION WALLS SHALL BE PLACED SIMULTANEOUSLY ON BOTH SIDES TO THE TOP OF THE WALL.

EB.10 NO MUD SLABS, FOOTINGS, OR SLABS SHALL BE PLACED ONTO OR AGAINST SUBGRADE CONTAINING FREE WATER, FROST, OR ICE.

EB.11 THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY FROST OR ICE FROM PENETRATING ANY FOOTINGS OR SLAB SUBGRADE BEFORE AND AFTER PLACEMENT OF CONCRETE INTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE.

B.12 THE CONCRETE FOR EACH ISOLATED FOOTING SHALL BE PLACED IN ONE (1) CONTINUOUS

EB.13 ALL PERIMETER WALL AND COLUMN FOOTINGS SHALL BEAR A MINIMUM OF 3'-6" BELOW FINISHED GRADE

FB.14 FOR ADDITIONAL SITE CONDITIONS, FOUNDATION CONSTRUCTION CONSIDERATIONS, AND ECOMMENDATIONS, REFER TO THE GEOTECHNICAL REPORT. AGI PROJECT NO. 18-258 DATED NOV. 6, 2018 REPARED BY APPLIED GEOSCIENCE, INC. SEE AVAILABLE REPORTS IN SPECIAL PROVISION.

88.01 INDIVIDUAL STRUCTURAL COMPONENTS ARE DESIGNED TO SUPPORT LOADS IN THEIR FINAL ERECTED POSITION AS PART OF THE TOTAL COMPLETED STRUCTURE. PROVIDE TEMPORARY SHORING, GUYING AND BRACING AS REQUIRED UNIT LAL CONSTRUCTION AFFECTING LOAD CARRYING MEMBERS AND LATERAL

SB.03 CONTRACTOR IS FULLY RESPONSIBLE FOR PROVIDING ALL TEMPORARY SHORING AND BRACING OF EXISTING ELEMENTS DURING CONSTRUCTION. ALL SHORING SHALL BE ADEQUATE TO SUPPORT ALL LOADINGS DURING MODIFICATION OF THE EXISTING BUILDING AND ERECTION OF THE NEW STRUCTURAL SUPPORT SYSTEM. TEMPORARY SHORING MUST REMAIN IN PLACE UNTIL ALL NEW STRUCTURAL MEMBERS SUPPORTING SHORED ELEMENTS ARE IN PLACE AND ALL NEW CONNECTIONS COMPLETED.

CONCRETE AND FORMWORK

CO.01 ALL CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING AMERICAN CONCRETE INSTITUTE PUBLICATIONS:

ACI 301 ACI 304 ACI 315 ACI 318

CO 02 THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE LOCATION AND PLACEMENT OF INSERTS, EMBEDDED PLATES, MASONRY ANCHORS, REGLETS, SLEEVES, DUCT WORK, PADS, AND ANCHOR BOLTS. THE INSERTS, EMBEDDED PLATES, ETC. SHALL NOT INTERFERE WITH CONCRETE REINFORCEMENT LOCATIONS. THE GENERAL CONTRACTOR SHALL VERIFY ALL OPENINGS THROUGH WALLS WITH SHOP DRAWINGS, SHOWING OPENINGS IN THE SLABS INCLUDING, BUT NOT LIMITED TO, SLEEVE SIZES AND LOCATIONS, DUCT SIZES AND LOCATIONS, ETC.

CO.03 SEE ARCHITECTURAL DRAWINGS FOR TYPE AND LOCATION OF ALL ARCHITECTURAL FINISHES, FLOOR FINISHES, FLOOR DEPRESSIONS, AND CURBS AND FOR ALL WATERPROOFING AND/OR DAMPPROOFING DETAILS. SEE MECHANICAL, ELECTRICAL, AND FUNBING DRAWINGS FOR ADDITIONAL WALL AND/OR SLAB

CO.04 THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS SHOWING THE LOCATIONS OF ALL CONSTRUCTION JOINTS, CURBS, AND SLAB DEPRESSIONS, IF ANY, AND DESCRIBE THE CONCRETE PLACEMENT SEQUENCE. ALL CURBS SHALL BE REINFORCED WITH AT LEAST 1-#4 CONTINUOUS AND #3 AT 16" C/C DOWELS TO THE STRUCTURE BELOW, UNLESS NOTED OTHERWISE.

CO.05 CONCRETE SHALL DEVELOP MINIMUM 28-DAY STRENGTH AS FOLLOWS:

FOOTINGS, PIERS, AND FOUNDATIONS NMWT (145 PCF) SLABS ON GRADE NMWT (145 PCF)

CO.06 ALL CONCRETE EXPOSED TO THE EXTERIOR SHALL BE AIR-ENTRAINED. WATER REDUCING PLASTICIZING ADMIXTURES MAY BE USED, PENDING APPROVAL OF THE ARCHITECT.

CO.08 FORMWORK FOR ALL CONCRETE WHICH WILL BE EXPOSED IN THE COMPLETED BUILDING OR CIP BENCHES SHALL BE CONSTRUCTION FROM A SUITABLE PLASTIC SURFACED PLYWOOD WHICH WILL PRODUCE AN ACCEPTABLY SMOOTH SURFACE. SEE ARCHITECTURAL DRAWINGS FOR FORMWORK FOR ALL EXTERIOR CONCRETE INDICATED AS 'BOARD-FORMED'. ALSO SEE ARCHITECTURAL DRAWINGS FOR LOCATIONS TO BE REPORTED THE DRAWFORL BY ALL SOURCES.

CO.09 VERTICAL WALL CONSTRUCTION JOINTS SHALL BE FORMED WITH VERTICAL BULKHEADS AND KEYWAYS. WALL REINFORCEMENT SHALL BE CONTINUOUS THROUGH THE JOINT OR SHALL BE DOWELED WITH AN EQUIVALENT AREA OF REINFORCEMENT.

CO.10 ALL CONSTRUCTION JOINTS SHALL BE WIRE-BRUSHED AND CLEANED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE. ALSO SEE THE SPECIFICATIONS AND REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS
TO BE REPRESENTED IN MOCK-UPS. ALLOW 24 HOURS MINIMUM TO ELAPSE BETWEEN PLACEMENTS.
RS.11 CORNER BARS SHALL BE PROVIDED AT WALL CORNERS EQUAL TO THE HORIZONTAL WALL
TO BE REPRESENTED IN MOCK-UPS. ALLOW 24 HOURS MINIMUM TO ELAPSE BETWEEN PLACEMENTS.
REINFORCEMENT.

CO.11 PROVIDE CONTINUOUS WATERSTOPS IN VERTICAL CONSTRUCTION JOINTS, IN BASEMENT AND ELEVATOR PIT WALLS, AND IN ALL OTHER WALLS ADJACENT TO BELOW GRADE SLABS.

CO.12 EXPOSED EXTERNAL CONCRETE CORNERS SHALL BE CHAMFERED AND NON-CHAMFERED PER ARCH DETAILS. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS TO BE REPRESENTED IN MOCK-UPS.

A VAPOR RETARDER SHALL BE PROVIDED UNDER ALL INTERIOR SLABS ON GRADE PER THE PROJECT

CO.14. SLABS ON GRADE SHALL BE PLACED IN ALTERNATE STRIPS WITH A MAXIMUM WIDTH OF 15-0° OR AS SHOWN ON PLAN. CONTROL JOINTS SHALL BE CUT WITHIN A 8-12 HOURS AFTER THE CONCRETE HAS SET. CONTROL JOINTS SHALL NOT EXCRED 15-0° THERVALS IN EACH DIRECTION. AND SHALL BE LOCATED TO CONFORM WITH BAY SPACING WHEREVER POSSIBLE (ILE AT COLLUMN CENTERLINES, HALF-BAYS, THIRD-BAYS) REFER TO ARCHITECTURAL DRAWINGS FOR JOINT LOCATIONS.

CO.15 SLOPE CONCRETE SLABS, WHERE REQUIRED, TO FLOOR DRAINS SHOWN ON THE ARCHITECTURAL AND PLUMBING DRAWINGS. MAINTAIN MINIMUM SLAB THICKNESSES AS SHOWN ON THE STRUCTURAL DRAWINGS.

CO.16 NO SLAB SHALL HAVE COLD JOINTS IN A HORIZONTAL PLANE. CONSTRUCTION JOINTS IN ELEVATED CONCRETE ON METAL DECK SHALL BE MADE AT THE THIRD POINT OF THE SPAN.

CO.18 NO OPENING SHALL BE MADE IN ANY STRUCTURAL MEMBER WITHOUT THE WRITTEN APPROVAL OF THE ARCHITECT AND ENGINEER.

REINFORCEMENT STEEL

ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED, LABELED, SUPPORTED AND SPACED IN FORMS, AND SECURED IN PLACE IN ACCORDANCE WITH PROCEDURES AND REQUIREMENTS OUTLINES IN THE LATEST EDITIONS OF THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE" (ACI 318) AND THE "DETAILS AND EDTAIL NO FO CONCRETE REINFORCEMENT" (ACI 315). AT EPOXY COATED BARS, USE DIELECTRIC MATERIAL FOR BAR SUPPORTS AND NYLON COATED TIE WIRE.

RS.02 CHECKED SHOP DRAWINGS SHOWING REINFORCEMENT DETAILS, INCLUDING STEEL SIZES, SPACING, AND PLACEMENT SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.

RS.03 ALL REINFORCEMENT STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO THE LATEST EDITION OF ASTM A 615. GRADE 60.

RS.04 ALL WELDED WIRE FABRIC SHALL CONFORM TO THE LATEST EDITION OF ASTM A 185

RS.05 THE FOLLOW CLEAR COVER SHALL BE PROVIDED FOR REINFORCEMENT IN CAST-IN-PLACE CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH

EXPOSED TO EARTH OR WEATHER: #6 THROUGH #18 BARS #5 BARS, 5/8" DIA. WIRE AND SMALLER NOT EXPOSED TO WEATHER IN CONTACT WITH GROUND: PRIMARY REINFORCEMENT, TIES, AND STIRRUPS

RS.06 PROVIDE ADEQUATE BOLSTERS, HIGH CHAIRS, SUPPORT BARS, ETC. TO MAINTAIN SPECIFIED CLEARANCES FOR THE ENTIRE LENGTH OF ALL REINFORCEMENT BARS. PROVIDE CONTINUOUS #4 SPACER BARS IN WALLS AND SLABS TO SUPPORT DOWLES, AS REQUIRED. WELDED WIRE FABRIC SHALL BE SUPPORTED IN PROPER POSITION ON CHAIRS AND CARRIER BARS.

RS.08 ALL REINFORCEMENT SPLICES SHALL BE LAP SPLICED AND WIRED TOGETHER IN CONTACT. SPLICE LENGTHS SHALL CONFORM TO THE LATEST ACI CRITERIA FOR SIZE AND TYPE OF REINFORCEMENT STEEL AND CONCRETE COMPRESIVE STRENGTHS SPECIFIED. UNLESS NOTED OTHERWISE, MINIMUM LAP SHALL BE 40 BAR DIAMETERS.

RS.09 ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO (2) FULL MESH PANELS AT SIDE AND END LAPS AND END LAPS AND SECURELY. PROVIDE ADDITIONAL REINFORCEMENT WHERE SHOWN ON THE DRAWINGS. PLACE MESH 1" MINIMUM. AT CONNECTIONS WITH LONG-SLOTTED HOLES IN OUTER PLYS, 5/16" PLATE WASHERS SUFFICIENT IN PLATE WASHERS SUFFI FROM THE TOP OF SLABS. NO ELECTRICAL CONDUIT SHALL BE PLACED ABOVE WELDED WIRE FABRIC SLABS.

RS.10 NO REINFORCEMENT STEEL SHALL BE WELDED IN ANYWAY UNLESS PRIOR WRITTEN APPROVAL IS

RS.12 ALL CONCRETE FORMED SLAB OR WALL OPENINGS SHALL BE REINFORCED WITH 2-#5 BARS PLACED ONE IN EACH FACE AT 45 DEGREES TO OPENING CORNERS.

RS.13 UNLESS NOTED OTHERWISE, ALL CONCRETE WORK SHALL CONTAIN AT LEAST MINIMUM REINFORCEMENT AS REQUIRED BY ACI 318.

RS.14 PROVIDE EPOXY COATED REINFORCEMENT AT ALL EXTERIOR CONCRETE INCLUDING WALLS

RS.1S AT ALL SLEEVES OPENINGS IN CONCRETE WALLS, PROVIDE ADD'L HORIZONTAL AND VERTICAL REINFORCEMENT ON EACH SIDE OF THE OPENING EQUAL TO THE WALL REINFORCEMENT. FOR SLEEVE OPENING SHALLER THAN 10", PLACE A MINIMUM 2*8 DIAGONAL BARS ON ALL (4) SIDES OF OPENING, FOR SLEEVE OPENING LARGER THAN 10", PLACE A MINIMUM 2*4 DIAGONAL BARS ON ALL (4) SIDES OF OPENING. ALL VERTICAL AND HORIZONTAL ADDI. REINFORCEMENT SHALL EXTEND A MINIMUM 2*0" BEYOND EDGE OF OPENING AND DIAGONALS SHALL EXTEND A MINIMUM 1-0" BEYOND EDGE OF OPENING AND DIAGONALS SHALL EXTEND A MINIMUM 1-0" BEYOND EDGE OF OPENING. SLEEVE MATERIAL SHALL MET FOR EXCEED THE FOLLOWING: SHALL MEET OR EXCEED THE FOLLOWING:

A. SLEEVE DIA OF 4" OR LESS - NO RESTRICTION, EXCEPT THE MATERIAL MUST BE COMPATIBLE WITH

B. SLEEVE DIA, MORE THAN 4" BUT LESS THAN 10" - STANDARD PIPE CONFORMING ASTM C. SLEEVE DIA 10" OR GREATER - STEEL PIPE WITH 3/8" MIN WALL THICKNESS CONFORMING TO ASTM SEE SPECIFICATION FOR CONNECTION DESIGN RESPONSIBILITIES A53 OR A283 GRADE C.

ALL SLEEVES OR OPENINGS THRU WALL SHALL BE COORDINATED BY CONTRACTOR AND SHALL BE APPROVED BY STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

STRUCTURAL STEEL

SS.01 ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS. ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN" AND THE AISC "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," LATEST EDITIONS

SS.02 THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF ALL ERECTION PROCEDURES AN SEQUENCES WITH RESPECT TO STRUCTURAL STEEL FRANING INTO CONCRETE WALLS, BEAMS, OR COLUMNS), AND TEMPORARY STRUCTURAL STABILITY.

POST-INSTALLED ANCHORS

ADHESIVE ANCHOR SYSTEMS USED FOR DESIGN:
ADHESIVE (CONCRETE): HILTI HITHY 200, OR APPROVED EQUIVALENT
ADHESIVE (MASONRY): HILTI HITHY 270, OR APPROVED EQUIVALENT
THREADED ROD: HILTI HAS-E THREADED ROD, OR APPROVED EQUIVALEN

OVERHEAD ANDIOR CONSTANT TENSION ADHESIVE ANCHOR INSTALLATIONS NOT SHOWN ON THE DRAWINGS SHALL NOT BE PERMITTED UNLESS EACH CONDITION IS REVIEWED AND APPROVED IN WRITING BY THE SER.

PA-2 PROOF TESTING OF ADHESIVE ANCHORS SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. DUISES NOTED OTHERWISE, ADHESIVE ANCHOR PROOF TENSION LOADS SHALL BE PER THE ADHESIVE ANCHOR PROOF TENSION SCHEDULE

SPECIFICATIONS. UNLESS NOTED OTHERWISE, EXPANSION ANCHOR PROOF TORQUE LOADS SHALL BE PER THE EXPANSION ANCHOR PROOF TORQUE SCHEDULES.

PA-6 ALTERNATIVE SYSTEM EQUIVALENT TO OR EXCEEDING THE PROPERTIES OF THE SYSTEMS ABOVE WILL BE CONSIDERED AS A SUBSTITUTION REQUEST. SEE PROJECT SPECIFICATIONS.

PA-8 INSTALL ANCHORS TO MEET THE REQUIREMENTS INDICATED IN THE CONTRACT DOCUMENTS AND THE CURRENT MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS (MPII).

PA-10 INSTALL MASONRY ANCHORS IN SOLID MASONRY OR IN HOLLOW MASONRY THAT HAS BEEN GROUTED SOLID AT LEAST ONE COURSE ABOVE ANCHOR ONE COURSE BELOW THE ANCHOR, UON.

PA-5 FIELD DRILLED THREADED SCREW ANCHOR SYSTEMS USED FOR DESIGN: HUS-EZ, OR APPROVED

PA-7 ANCHORS ARE TO BE MINIMUM 3/4' DIAMETER WITH A MINIMUM EMBEDMENT OF 6", UON

PROOF TESTING OF EXPANSION ANCHORS SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT

PA-3 FIELD DRILLED EXPANSION ANCHOR SYSTEMS USED FOR DESIGN. KWIK BOLT 3, OR APPROVED

REFER TO THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR IONAL STRUCTURAL AND MISCELLANEOUS STEEL REQUIREMENTS. ALL EXTERIOR EDGE ANGLES, LINTELS, AND SHELF ANGLES SHALL BE GALVANIZED AFTER FABRICATION

SS.05 THE FABRICATOR/ERECTOR SHALL SUBMIT TO THE ARCHITECT. FOR INFORMATION ONLY, CONNECTION DETAILS, FIELD ASSEMBLY DETAILS, AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL.

SS.06 THE CONTRACTOR'S STEEL TESTING LABORATORY SHALL PERFORM ALL TESTING OF WELDED AND BOLTED CONNECTIONS IN ACCORDANCE WITH ALL AISC AND AWS REQUIREMENTS AND THE INTERNATIONAL BUILDING CODE. WRITTEN REPORTS, SIGNED AND SEALED BY THE INSPECTING DESIGN PROFESSIONAL AND INCLUDING THE LICENSE EXPIRATION DATE, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. SEE ALSO

SS.07 ALL STRUCTURAL MEMBERS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS:

WIDE FLANGE SECTIONS ASTM A 992 (Fy= 50KSI)
OTHER SHAPES & PLATES ASTM A 36 (Fy= 36 KSI) ASTM A 500, GRADE B (Fy= 46 KSI) ASTM A 53 TYPE E, GRADE B (Fy= 35 KSI)

 ${\tt SS.08} \quad {\tt STEEL SHALL BE CLEAN OF RUST, LOOSE MILL SCALE, AND OTHER FOREIGN MATERIALS FOR PROPER FABRICATION, FIT-UP, AND WELDING. \\$

SS.09 ALL BOLTED CONNECTIONS SHALL BE IN ACCORDANCE WITH THE AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A 325 OR ASTM A 490 BOLTS."

SIZE TO COMPLETELY COVER THE SLOT SHALL BE PROVIDED.

SS.11 ALL NUTS SHALL CONFORM TO THE LATEST EDITION OF ASTM A 563.

SS.12 ALL WASHERS SHALL CONFORM TO THE LATEST EDITION OF ASTM F 436.

SS.13 WELDING SHALL BE DONE BY AWS CERTIFIED WELDERS AND SHALL CONFORM TO THE AWS D1.1 "STRUCTURE WELDING CODE," LATEST EDITION. ALL WELDING ELECTRODES SHALL BE E70XX.

SS.14 FIELD CONNECTIONS, EXCEPT WHERE SHOWN TO BE WELDED, SHALL BE BOLTED. SHOP CONNECTIONS MAY BE WELDED UNLESS NOTED OTHERWISE. MINIMUM WELDS NOT SHOWN ON THE DRAWINGS SHALL BE 1/4" FILLET WELDS.

SS.15 UNLESS NOTED OTHERWISE, ALL SIMPLE BEAM SHEAR CONNECTIONS SHALL BE WELDED OR BEARING TYPE N BOLTED DOUBLE ANGLE FRAMED CONNECTIONS SIZE TO SUPPORT 60% (FOR NON-COMPOSITE BEAMS) OR 75% (FOR COMPOSITE BEAMS) OF THE TOTAL CAPACITY GROWN IN THE AIGS. ALLOWABLE UNIFORM LOAD TABLES. BEAM END REACTIONS NOTED THUS 100K SHALL BE DESIGNED FOR THE LOAD SO INDICATED. IN NO CASE SHALL ANY CONNECTION BE LESS THAN ONE-HALF THE DEPTH OF THE SUPPORTED BEAM, AND THE QUANTITY OF VERTICAL ROWS OF BOLTS SHALL NOT BE LESS THAN:

W8:	2 ROWS	W21:	6 ROWS
W10:	2 ROWS	W24:	6 ROWS
W12:	3 ROWS	W27:	7 ROWS
W14:	3 ROWS	W30:	8 ROWS
W16:	4 ROWS	W33:	9 ROWS
W18:	5 ROWS	W36:	10 ROWS

SS.18 ALL STRUCTURAL STEEL EXPOSED TO VIEW SHALL CONFORM TO THE ARCHITECTURAL EXPOSED STRUCTURAL STEEL (AESS) CRITERIA OF THE "AISC CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND

SS.19 THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ARCHITECT.

 $\,$ SS 20 $\,$ PRIME PAINT ALL STEEL EXCEPT THOSE THAT ARE TO RECEIVE SPRAY-ON FIREPROOFING OR ARE TO BE ENCASED IN CONCRETE.

SS.21 ALL ANCHOR RODS SHALL MEET ASTM F1554 GRADE 105KSI STEEL, UNO. ALLTHREADED ANCHOR RODS SHALL HAVE 3/8"X4"DIA. PLATES AT EMBEDMENT DEPTH. AMERICAN MADE STEEL ONLY

SD.01 ALL DESIGN, DETAILING, FABRICATION AND ERECTION OF DECK UNITS SHALL. CONFORM TO THE LATEST EDITIONS OF THE STEEL DECK INSTITUTE (SDI) SPECIFICATIONS FOR STEEL FLOOR DECK AND FOR STEEL ROOF DECK. DECK SECTION PROPERTIES SHALL. BE COMPUTED IN ACCORDANCE WITH AISI "SPECIFICATION FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS" AND HAVE MINIMUM DECK PROPERTIES AS FOLLOWS:

1.72 1.54 0.68 0.76

SD.02 ROOF DECK SHALL BE FABRICATED FROM STEEL CONFORMING TO ASTM A1008 WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI. COMPOSITE AND NON-COMPOSITE FLOOR DECK SHALL BE FABRICATED FROM STEEL CONFORMING TO ASTM A635, STRUCTURAL QUALITY GRADE 33.

 ${\tt SD.03}$ $\,$ ROOF DECK SHALL BE SHOP PAINTED WITH PHOSPHATE PAINT. COMPATIBLE WITH HIGH PERFORMANCE COATING SYSTEM.

SD.04 THE DEPTH AND GAGE OF ALL DECK TYPES SHALL BE AS INDICATED ON THE DRAWINGS

SD.06. ROOF DECK SHALL BE WELDED AT EACH SUPPORT. PROVIDE SCREWED OR WELDED SIDE LAPS. SIDE LAP WELDES SHALL BE ETIHER 4 SIG* PUDDLE WELD OR A 11/0* X 1/12* ARC SEAM WELD. SCREWS SHALL BE TEK SCREWS. SCREWS SHALL BE TEK SCREWS. SCREWS SHALL BE TOCATED IN UPPER FULTES ONLYTO

SD.07 PRIOR TO THE START OF ERECTION, A WELDING PROCEDURE SHALL BE ESTABLISHED FOR THE PLUG WELDING OF THE STEEL DECKING TO THE STRUCTURAL STEEL FOR THE PARTICULAR GAGE OF DECK USED. ALL WELDERS SHALL BE AWE CERTIFIED USING THIS PROCEDURE.

SD.08 ALL ROOF DECK SHALL BE FORMED WITH TELESCOPED ENDS TO LAP ENDS OF SHEETS A MINIMUM

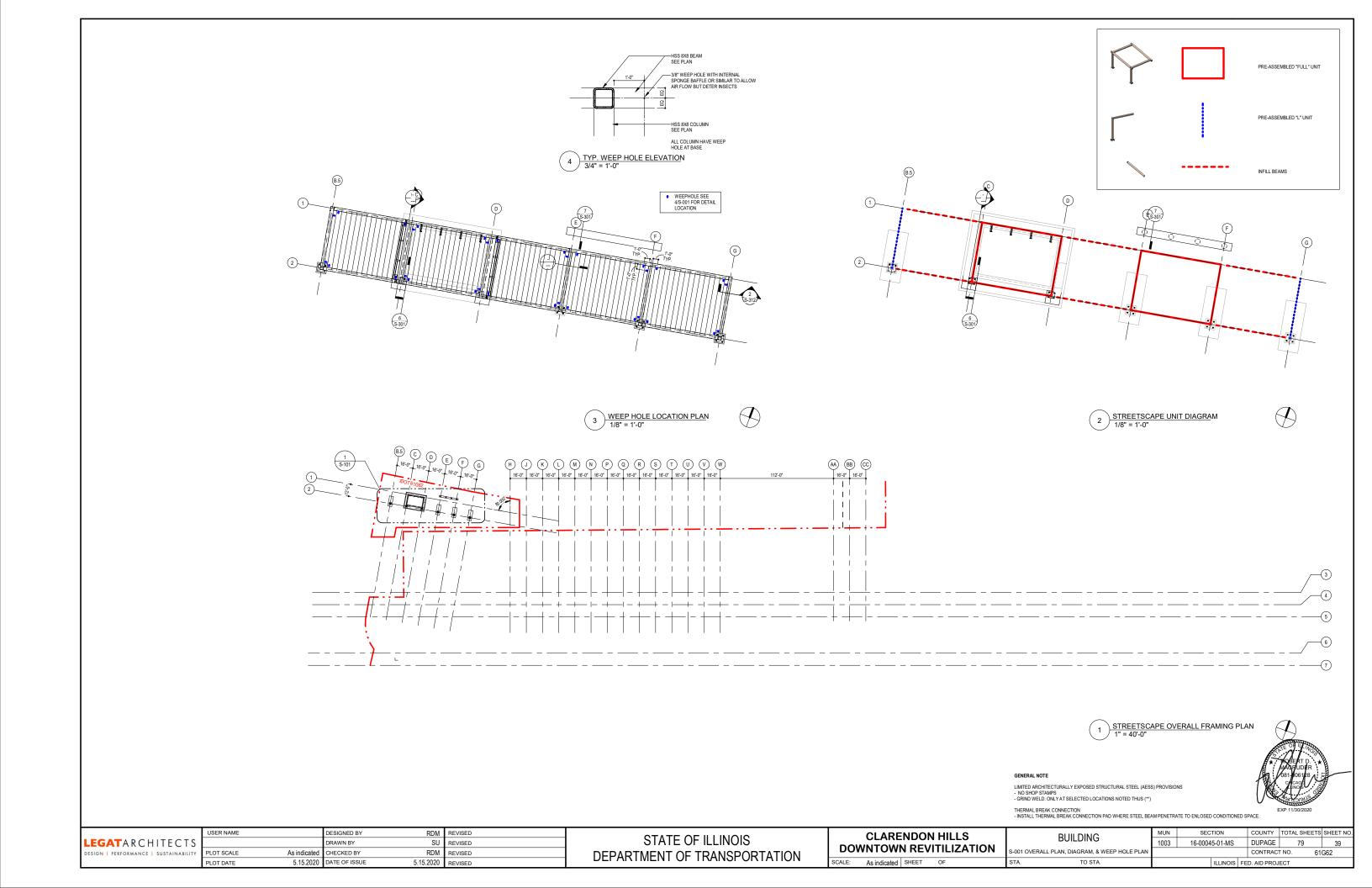
SD.09 PROVIDE CONTINUOUS RIDGE AND VALLEY PLATES, COLUMN CLOSURES, CANT STRIPS, SUMP PLATES AT PIPING PENETRATIONS AND RECESSED SUMP PANS AT ALL ROOF DRAINS AND ROOF VENTS, AS REQUIRED. PROVIDE SUPPLEMENTAL FRAMING AT OPENINGS AS SHOWN FOR THE SUPPORT OF THE METAL DECK. ALL OPENINGS SHALL BE COORDINATED WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, AND

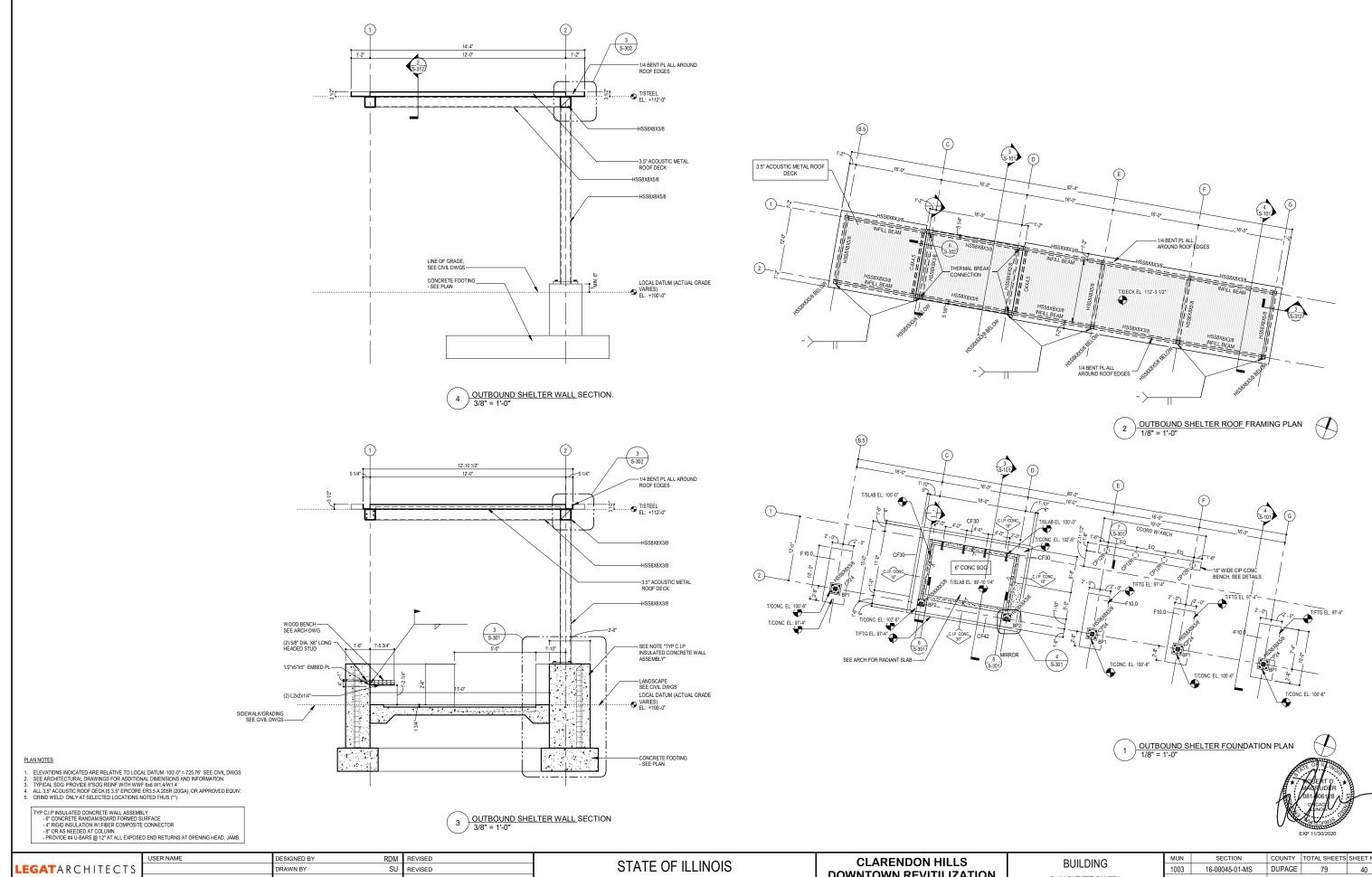
SD.11 STEEL DECKS SHALL BE WELDED AND FASTENED AT THE FOLLOWING PATTERNS:
TYPE FASTENER LAYOUT #OF SIDELAP FASTENERS MIN SHEAR CAPACITY
3.5" EPICORE ER3.5A 24/6 2" WELDED @ 36"O.C. 230 PLF

SD.12 SCREWS SHALL BE TEK SCREWS. SCREWS SHALL BE LOCATED IN UPPER FLUTES ONLY TO BE CONCEALED FROM VIEW BELOW DECK.

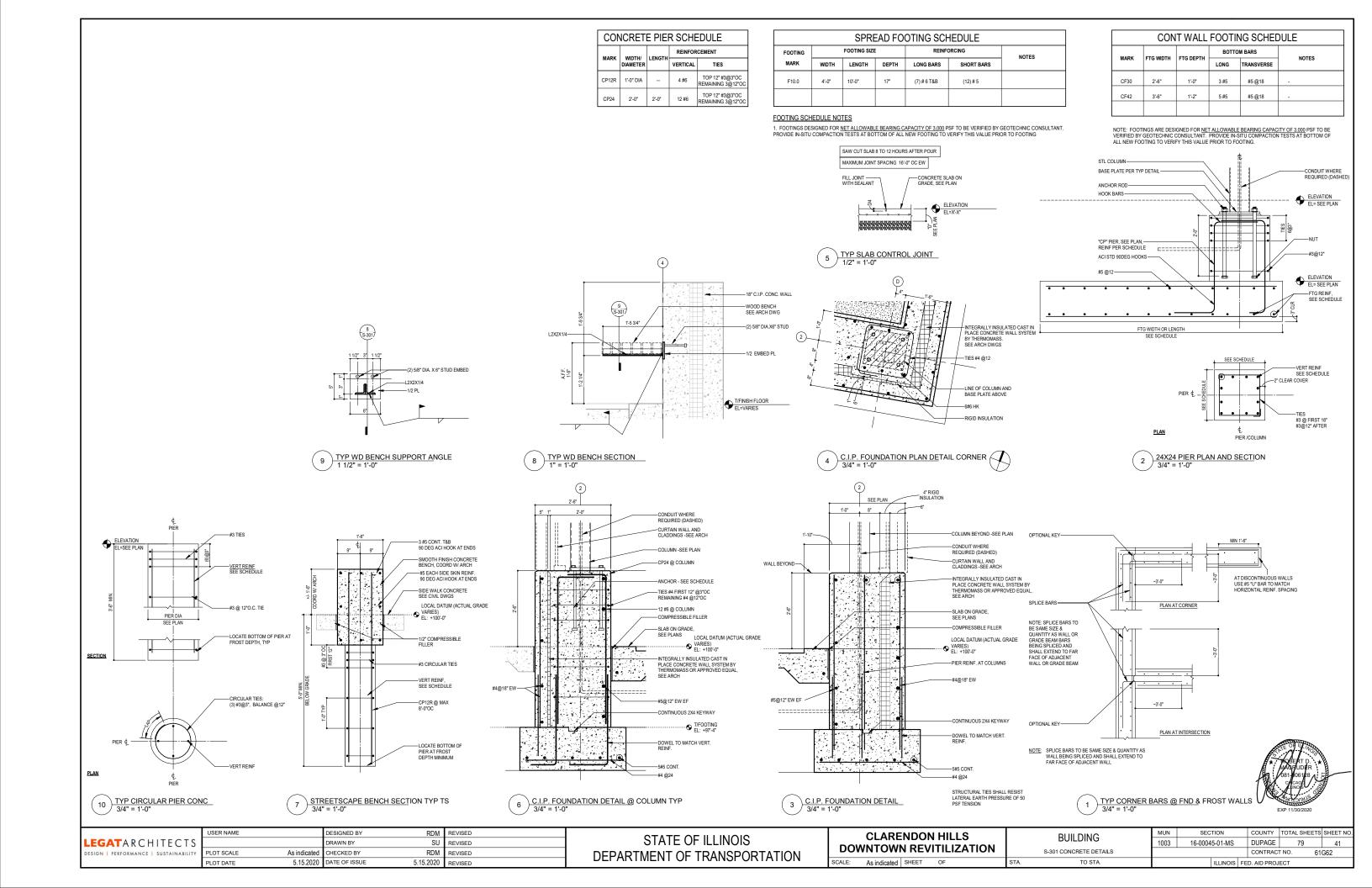


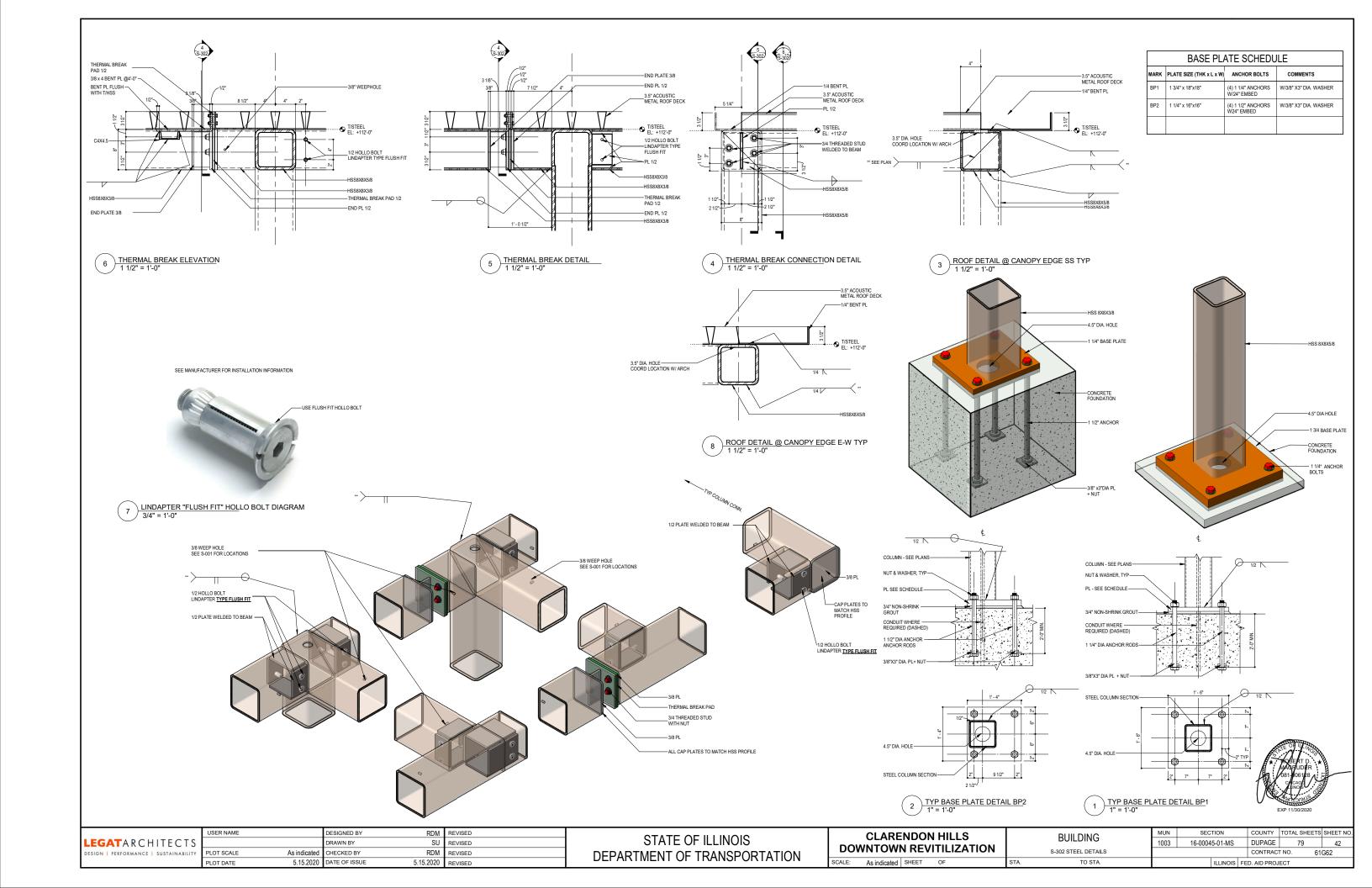
COUNTY TOTAL SHEETS SHEET NO JSER NAME DESIGNED BY RDM REVISED SECTION **CLARENDON HILLS** BUILDING STATE OF ILLINOIS **LEGAT**ARCHITECTS RAWN BY SU REVISED 1003 DUPAGE 79 16-00045-01-MS DOWNTOWN REVITILIZATION PLOT SCALE 12" = 1'-0" CHECKED BY RDM S-000 GENERAL NOTES CONTRACT NO REVISED DEPARTMENT OF TRANSPORTATION ESIGN | PERFORMANCE | SUSTAINABILIT 12" = 1'-0" SHEET OF 5.15.2020 DATE OF ISSUE 5.15.2020 ILLINOIS FED. AID PROJECT

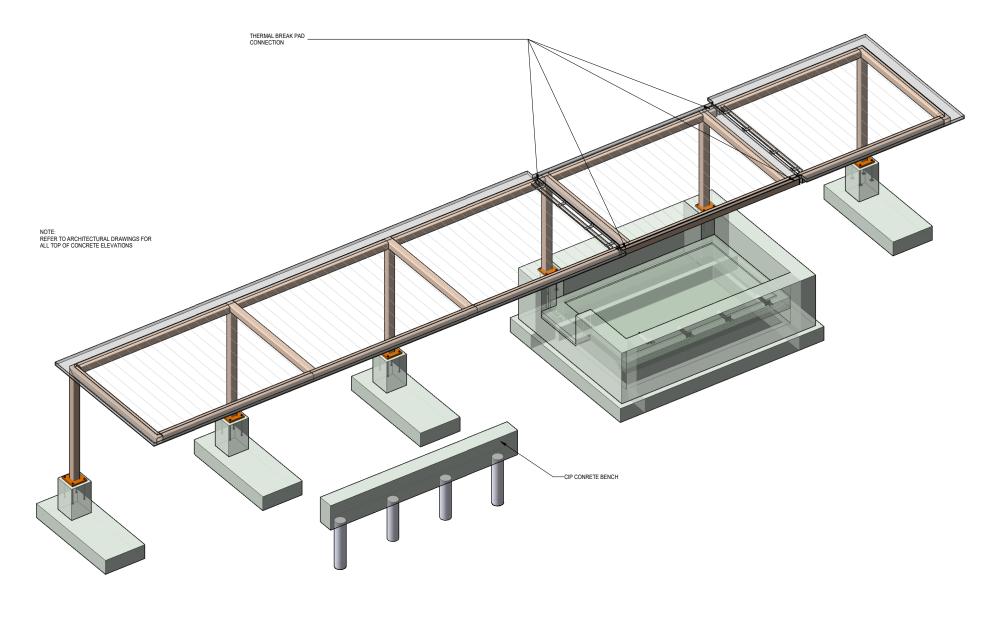




		USER NAME		DESIGNED BY	RDM	REVISED	07475 05 11 1 14 010	CLARENDON HILLS		BUILDING	MUN	SECTION	COUNTY	TOTAL SHEET	SHEET N
	EGAT ARCHITECTS			DRAWN BY	SU	REVISED	STATE OF ILLINOIS			BUILDING	1003	16-00045-01-MS	DUPAGE	79	40
DES	SIGN PERFORMANCE SUSTAINABILITY	PLOT SCALE A	indicated	CHECKED BY	RDM	REVISED	DEPARTMENT OF TRANSPORTATION	DOWNTOWN REVITILIZATION		S-101 SHELTER CANOPY			CONTRACT	NO. 6	61G62
		PLOT DATE	5.15.2020	DATE OF ISSUE	5.15.2020	REVISED	DELAKTIVIENT OF TRANSPORTATION	SCALE: As indicated SHEET OF	STA.	TO STA.		ILLINOIS	FED. AID PROJE	CT	



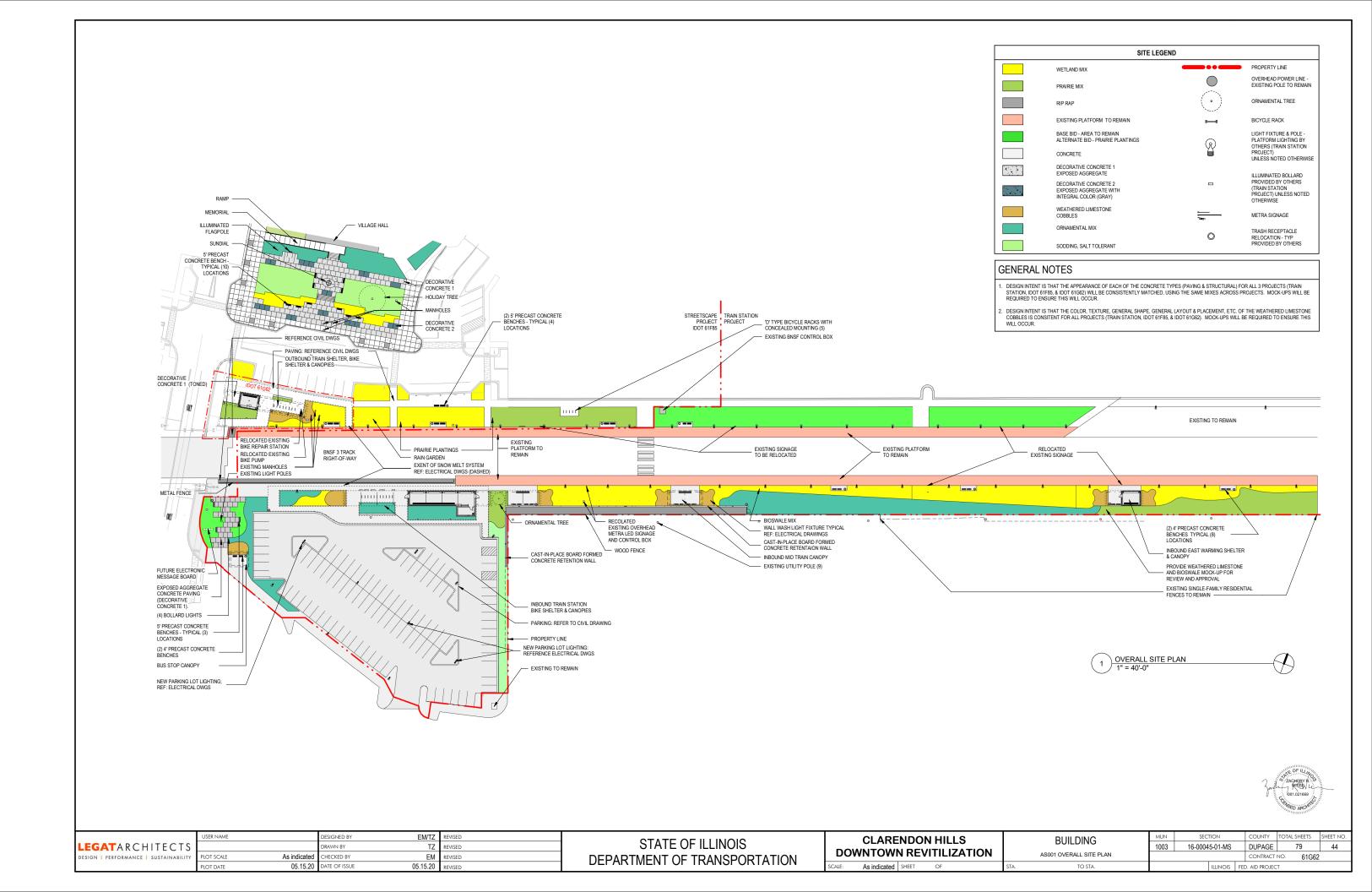


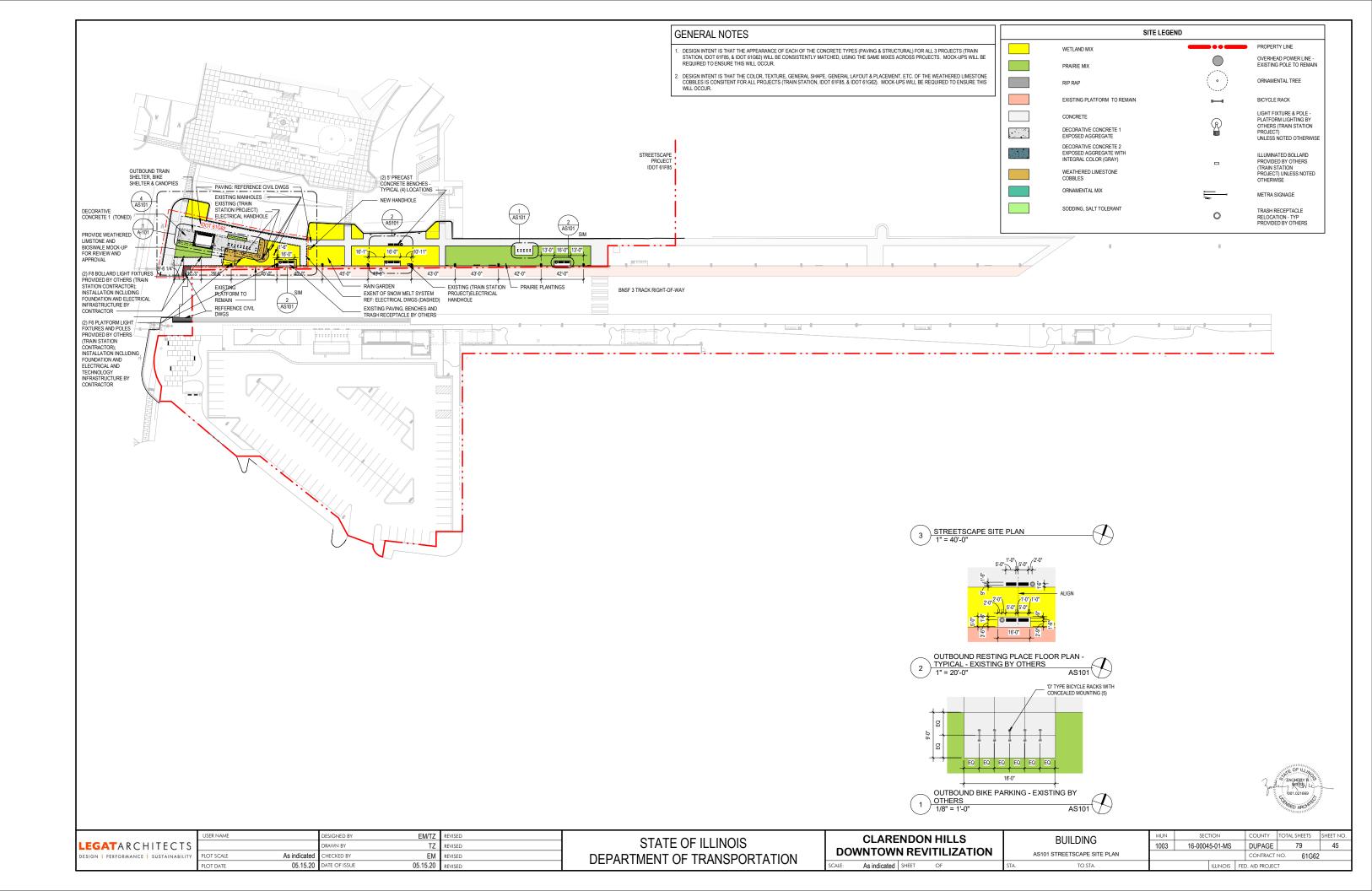


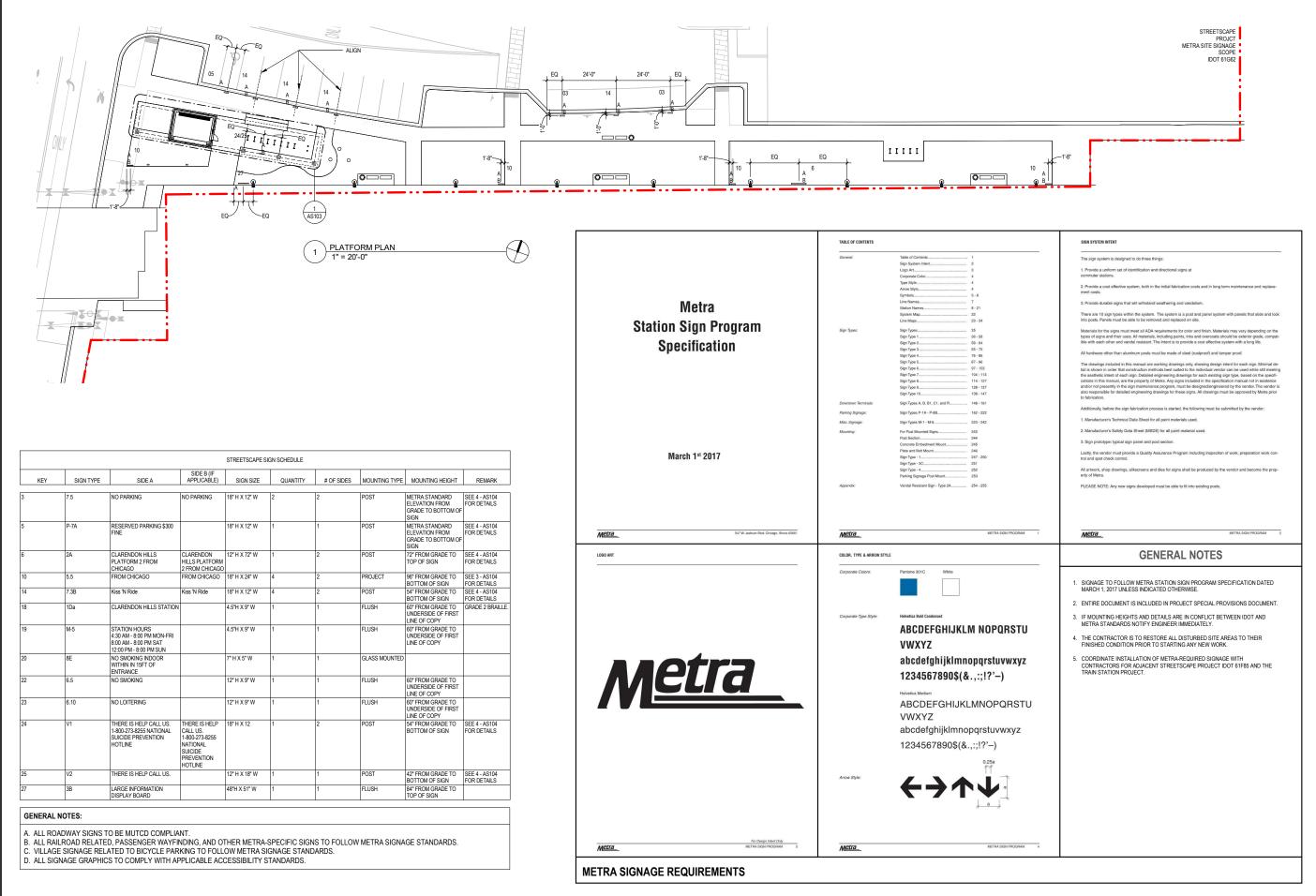




	USER NAME	DESIGNED BY RDM	REVISED	07475 05 11 1 11 010	CLARE	NDON HILLS	BUILDING	MUN	SECTION	COUNTY TO	TAL SHEETS SHEET NO.
LEGATARCHITECTS		DRAWN BY SU	REVISED	STATE OF ILLINOIS	· · · · -		BUILDING	1003 16-	00045-01-MS	DUPAGE	79 43
DESIGN PERFORMANCE SUSTAINABILITY	PLOT SCALE	CHECKED BY RDM	REVISED	DEPARTMENT OF TRANSPORTATION	DOWNTOW	N REVITILIZATION	S-901 3D			CONTRACT NO	O. 61G62
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LEGATARCHITECTS

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PLOT SCALE

As indicated

CHECKED BY

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PLOT DATE

DATE OF ISSUE

DATE OF ISSUE

05.15.20

REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

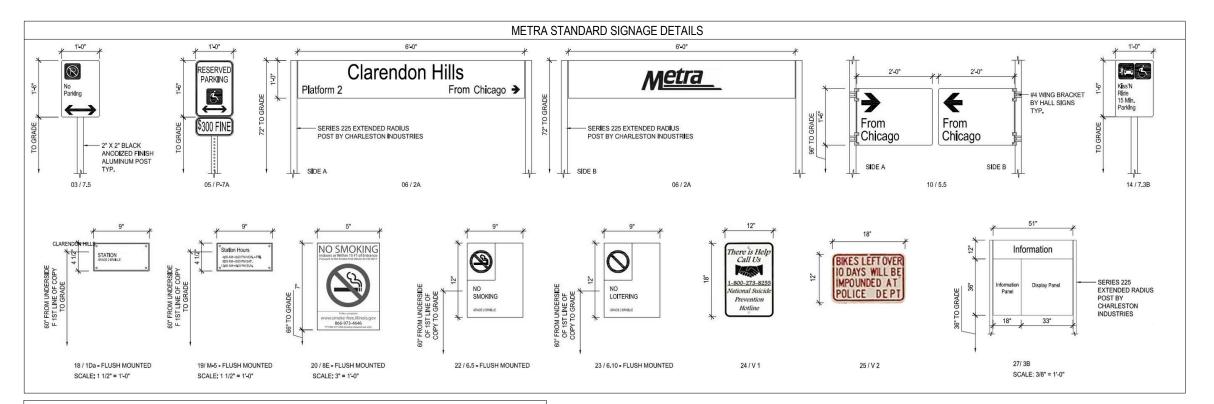
CLARENDON HILLS DOWNTOWN REVITILIZATION

BUILDING
AS102 METRA SIGNAGE AND WAYFINDING

 MUN
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEET NO.

 1003
 16-00045-01-MS
 DUPAGE
 79
 46

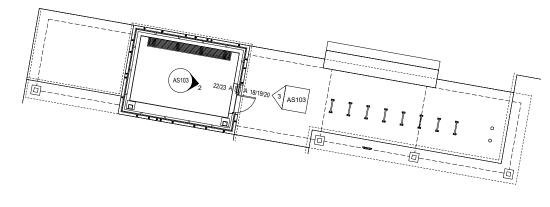
 CONTRACT NO.
 61G62



GENERAL NOTES:

- A. ALL ROADWAY SIGNS TO BE MUTCD COMPLIANT.
 B. ALL RAILROAD RELATED, PASSENGER WAYFINDING, AND OTHER METRA-SPECIFIC SIGNS TO FOLLOW METRA SIGNAGE STANDARDS.
- C. VILLAGE SIGNAGE RELATED TO BICYCLE PARKING TO FOLLOW METRA SIGNAGE STANDARDS. D. ALL SIGNAGE GRAPHICS TO COMPLY WITH APPLICABLE ACCESSIBILITY STANDARDS.

2 CLARENDON HILLS SELF-ADHERED VINYL SIGNAGE REVERSE READ (INTERIOR APPLIED) TRANSLUCENT WHITE 60" FROM UNDERSIDE
OF 1ST LINE OF COPY
TO GRADE. 3 WARMING SHELTER ELEVATION_EAST
1/4" = 1'-0" WARMING SHELTER INTERIOR ELEVATION_EAST



GENERAL NOTES:

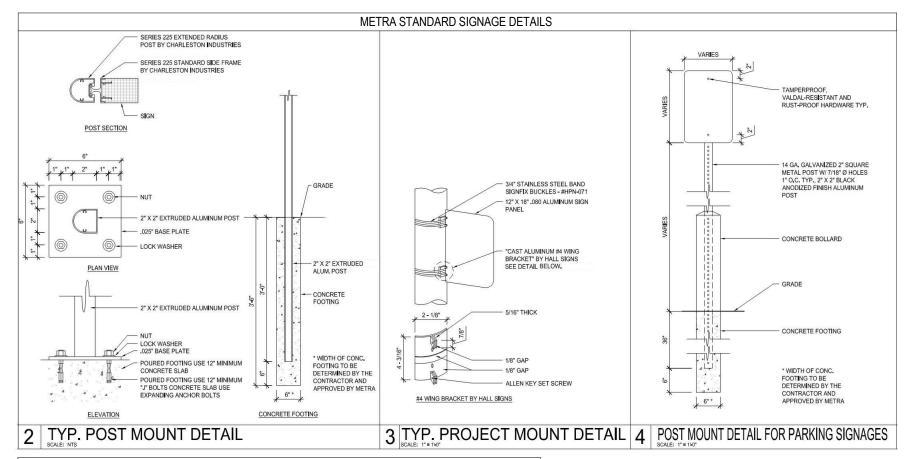
1. NOT ALL SIGNS ARE APPLICABLE TO THIS PROJECT.

2. REFER TO BUILDING ELEVATIONS FOR APPLICABLE BUILDING SIGNAGE

WARMING SHELTER	
1/8" = 1'-0"	AS102



I		USER NAME	DESIGNED E	BY EM/TZ	REVISED	OTATE OF 11 1 10 10 10	CLARENDON HILLS	BUILDING	MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	LEGAT ARCHITECTS		DRAWN BY	TZ	REVISED	STATE OF ILLINOIS		BUILDING	1003	16-00045-01-MS	DUPAGE	79	47
	DESIGN PERFORMANCE SUSTAINABILITY	PLOT SCALE As indicate	ed CHECKED B	BY EM	REVISED	DEPARTMENT OF TRANSPORTATION	DOWNTOWN REVITILIZATION	AS103 METRA SIGNAGE AND WAYFINDING			CONTRACT	NO. 61G62	2
- 1		PLOT DATE 05.15.	20 DATE OF ISS	SSUE 05.15.20	REVISED	DEI AITIMENT OF TRANSFORTATION	SCALE: As indicated SHEET OF	STA. TO STA.		ILLINOIS F	ED. AID PROJEC	T	

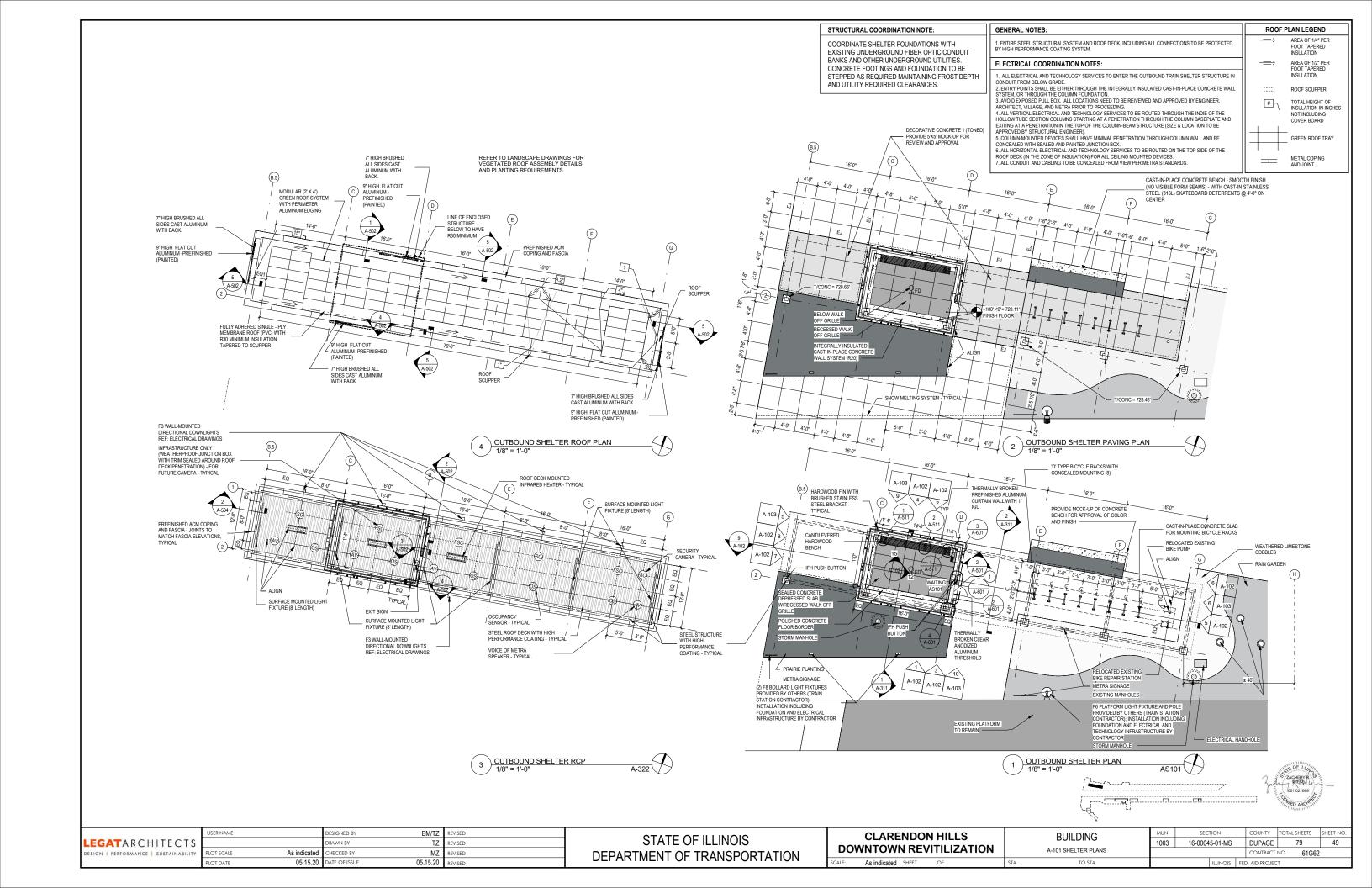


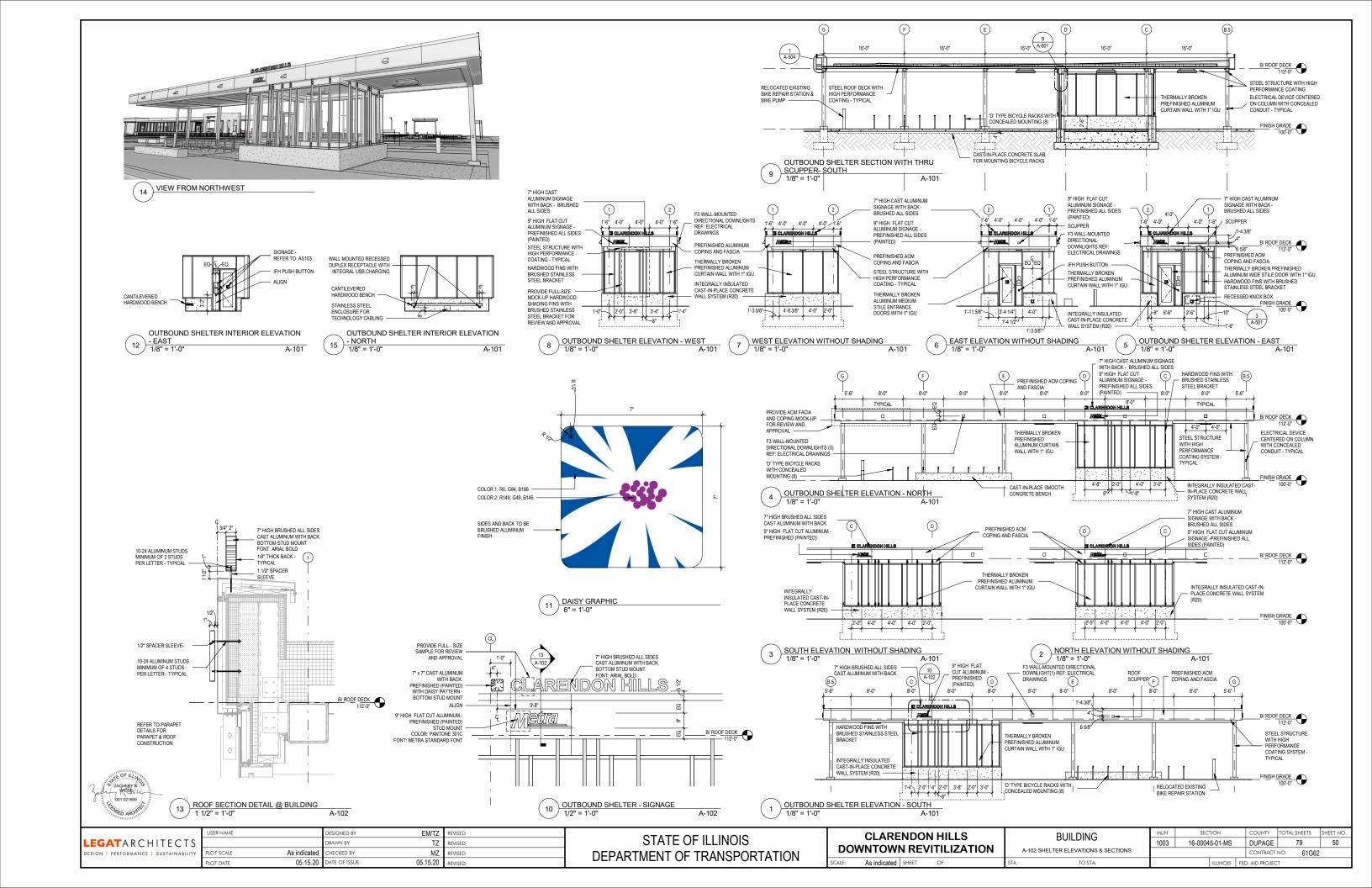
GENERAL NOTES:

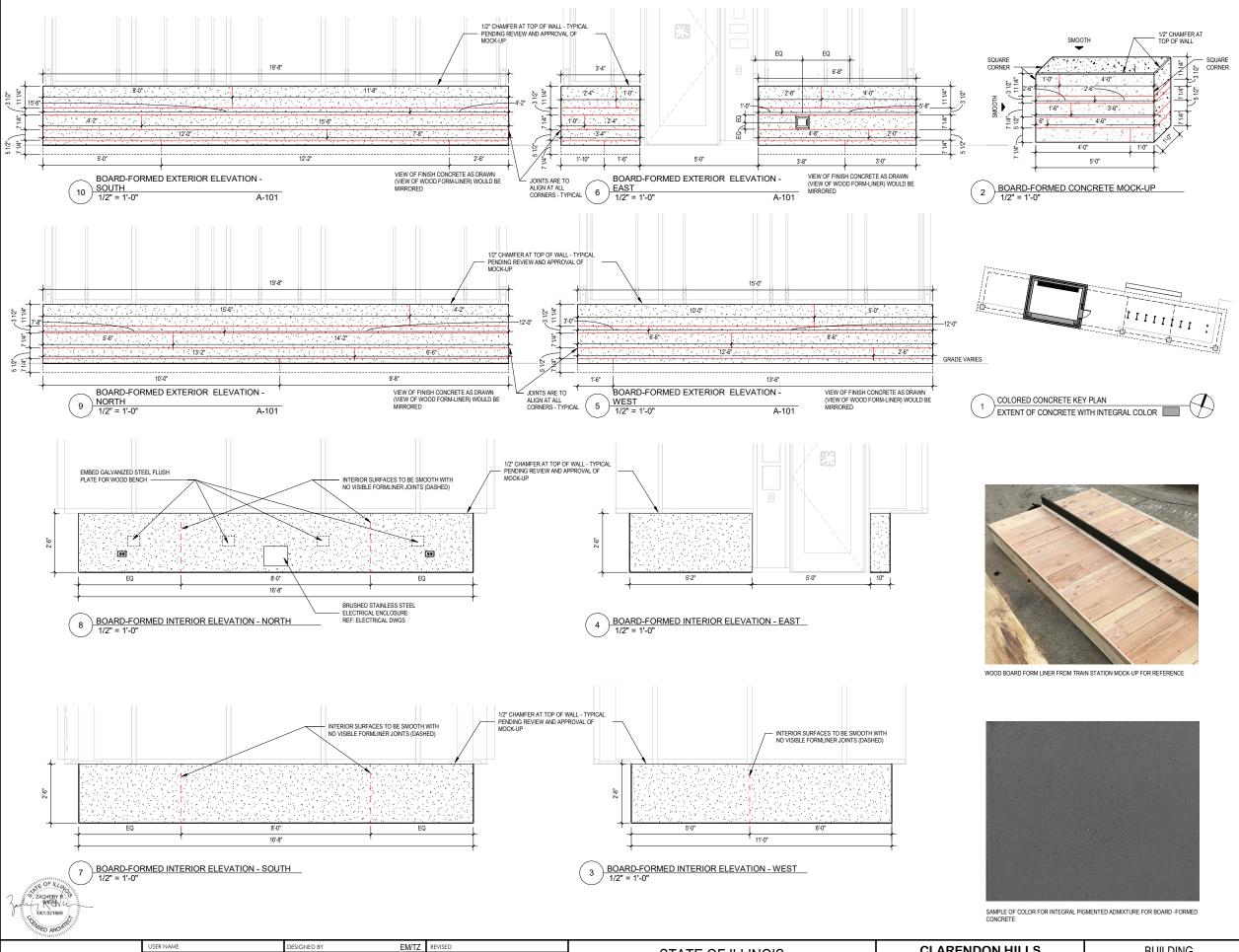
- A. ALL ROADWAY SIGNS TO BE MUTCD COMPLIANT.
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 D. ALL SIGNAGE GRAPHICS TO COMPLY WITH APPLICABLE ACCESSIBILITY STANDARDS.



	USER NAME		DESIGNED BY	METRA	REVISED		CLARENDON HILLS	BUILDING	MUN	SECTION	COUNT	TOTAL SHEETS	S SHEET NO.
LEGAT ARCHITECTS			DRAWN BY	METRA	REVISED	STATE OF ILLINOIS		BOILDING	1003	16-00045-01-M	S DUPAG	E 79	48
DESIGN PERFORMANCE SUSTAINABILITY	PLOT SCALE A	s indicated	CHECKED BY	EM	REVISED	DEPARTMENT OF TRANSPORTATION	DOWNTOWN REVITILIZATION	AS104 METRA SIGNAGE AND WAYFINDING			CONTRA	CT NO. 61G	G62
	PLOT DATE	05.15.20	DATE OF ISSUE	05.15.20	REVISED	T DELAKTIVIENT OF TRANSPORTATION	SCALE: As indicated SHEET OF	STA. TO STA.		ILLINO	S FED. AID PRO	ECT	







ARCHITECTURAL BOARD-FORMED **CONCRETE FINISH**

PROVIDE NATURAL WOOD BOARD FORM-LINER

- ARCHITECT TO LAY OUT BOARD POTINETHEN FROM MULTIPLE BOARD SIZES.

 BOARD FORMS TO BE SET PLUMB, STRAIGHT, LEVEL AND TRUE.

 BOARD JOINTS TO BE STAGGERED TO AVOID UNWANTED PATTERNS.

 BOARDS TO BE ARRANGED FROM, 114°S, 18°S, 18°S & 1112S PENDING

 APPROVAL OF MOCK-UPS.

 BOARDS TO BE DOUGLAS FIR PENDING APPROVAL OF MOCK-UPS. REUSE OF

 BOARDS TO BE DOUGLAS FIR PENDING APPROVAL OF MOCK-UPS. REUSE OF

 BOARDS TO BE DOUGLAS FIR PENDING APPROVAL OF MOCK-UPS. REUSE OF

 BOARDS TO BE DOUGLAS FIR PENDING APPROVAL OF MOCK-UPS. REUSE OF

 BOARDS TO BE DOUGLAS FIR PENDING APPROVAL OF MOCK-UPS. REUSE OF

 BOARDS IS TO BE LIMITED AS SURFACE TEXTURE IS REDUCED WITH EACH USE.

 CONCRETE POURS TO BE SHORTED TO MINIMIZE BUG HOLES AND

 HONEYCOMBING, WHILE LIMITS IF A MOLD TO FEXPOSED AGGREGATE

 VISIBLE AT THE SURFACE, AND EXPOSING THE DETAIL OF THE WOOD GRAIN.

 FORM TIEL HOLES TO BE SPACED REQUILARLY WITH RECESSED PATCH TO

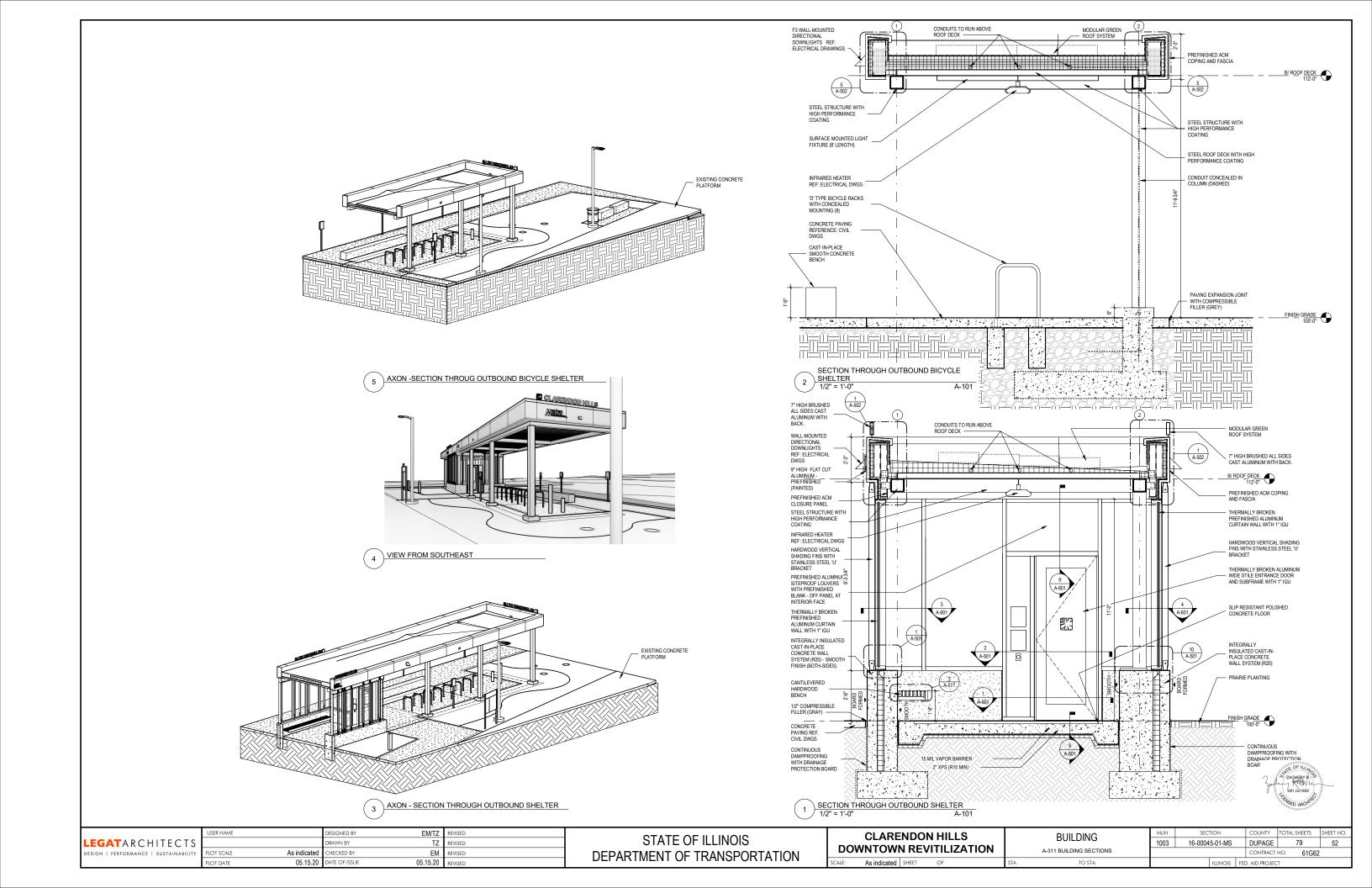
 MATCH CONCRETE COLOR, TEXTURE AND SHEEN.
- MATCH CONCRETE COLOR, TEXTURE AND SHEEN.
 JOINTS BETWEEN BOARDS TO BE TREATED TO LIMIT AMOUNT OF CONCRETE
 ESCAPING FORMWORK AND MINIMIZE CONCRETE FINS. JOINTS BETWEEN
 BOARDS TO BE CONSISTENT IN WIDTH.
 FORM RELEASE AGENT AND CONCRETE CURING AGENT THAT WILL NOT BOND
 WITH, STAIN, OR ADVERSELY AFFECT FINISH SURFACE OF CONCRETE; AND WILL
 NOT IMPAIR SUBSEQUENT SURFACE TREATHENTS TO CONCRETE (I.E., FUTURE
 ANTI-CRAFFITI COATING IF REQUIRED).
 PROVIDE FOUR SEQUENCE DRAWINGS FOR REVIEW AND APPROVAL.
 PROVIDE SERIES OF MOCK-UPS USING THE ACTUAL SPECIFIED CONCRETE MIX.
 TO ORTAIN WAMER AND ACCUSTOR THE ACTUAL SPECIFIED CONCRETE MIX.
 TO ORTAIN WAMER AND ACCUSTOR THE ACTUAL SPECIFIED CONCRETE MIX.
- TO OBTAIN OWNER AND ARCHITECT APPROVALS INCLUDING BUT NOT LIMITED TO THE FOLLOWING:
- IO THE FOLLOWING:
 COLOR
 WOOD SPECIES FOR BOARD FORMS
 TREATMENT OF JOINTS BETWEEN BOARDS
 COLD JOINTS
 TIES, TIE HOLES, AND PATCHING
 CONCRETE CURING AGENT
 FORM RELEASE AGENTS
 MOCK LIBE CAN JURDAY BLISTE FERENDING ME

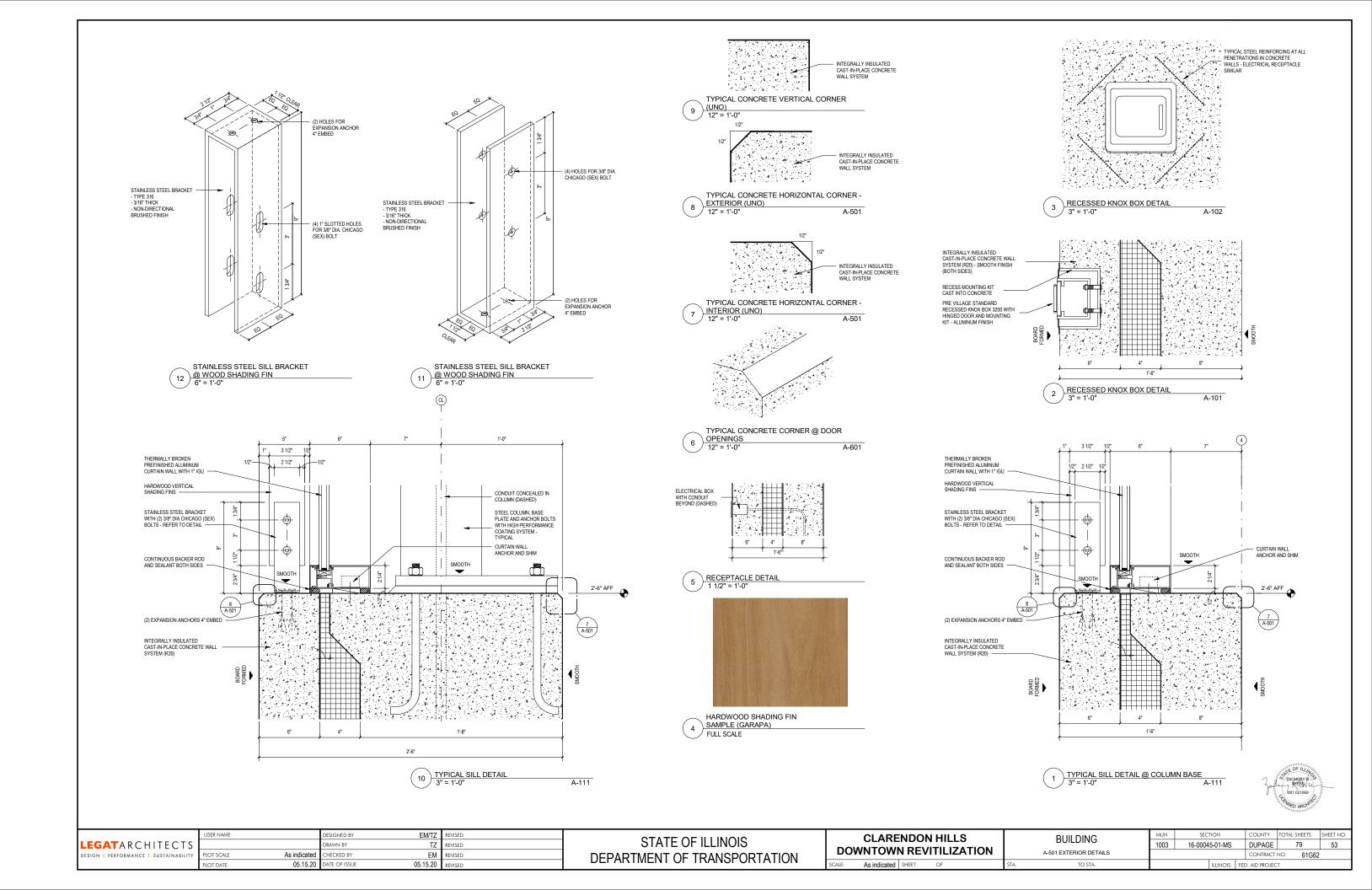
- MOCK-UPS CAN VARY IN SIZE DEPENDING WHAT IS BEING TESTED AND REVIEWED.
- INSTALLATION IS TO MATCH TRAIN STATION PROJECT AT INBOUND PLATFORM
- INSTALLATION IS TO MAILET INVALED TATION PROJECT AT INDOUND PLATFOR IN OCLOR, TEXTURE, FINISH & DETAILS. ADDITIONAL PRECEDENTS FOR BOARD-FORMED CONCRETE INCLUDE NORTHWESTERN SAILING CENTER. A JOINT SITE VISIT WITH OWNER, ARCHITECT, GENERAL CONTRACTOR, AND CONCRETE SUBCONTRACTOR IS REQUIRED.

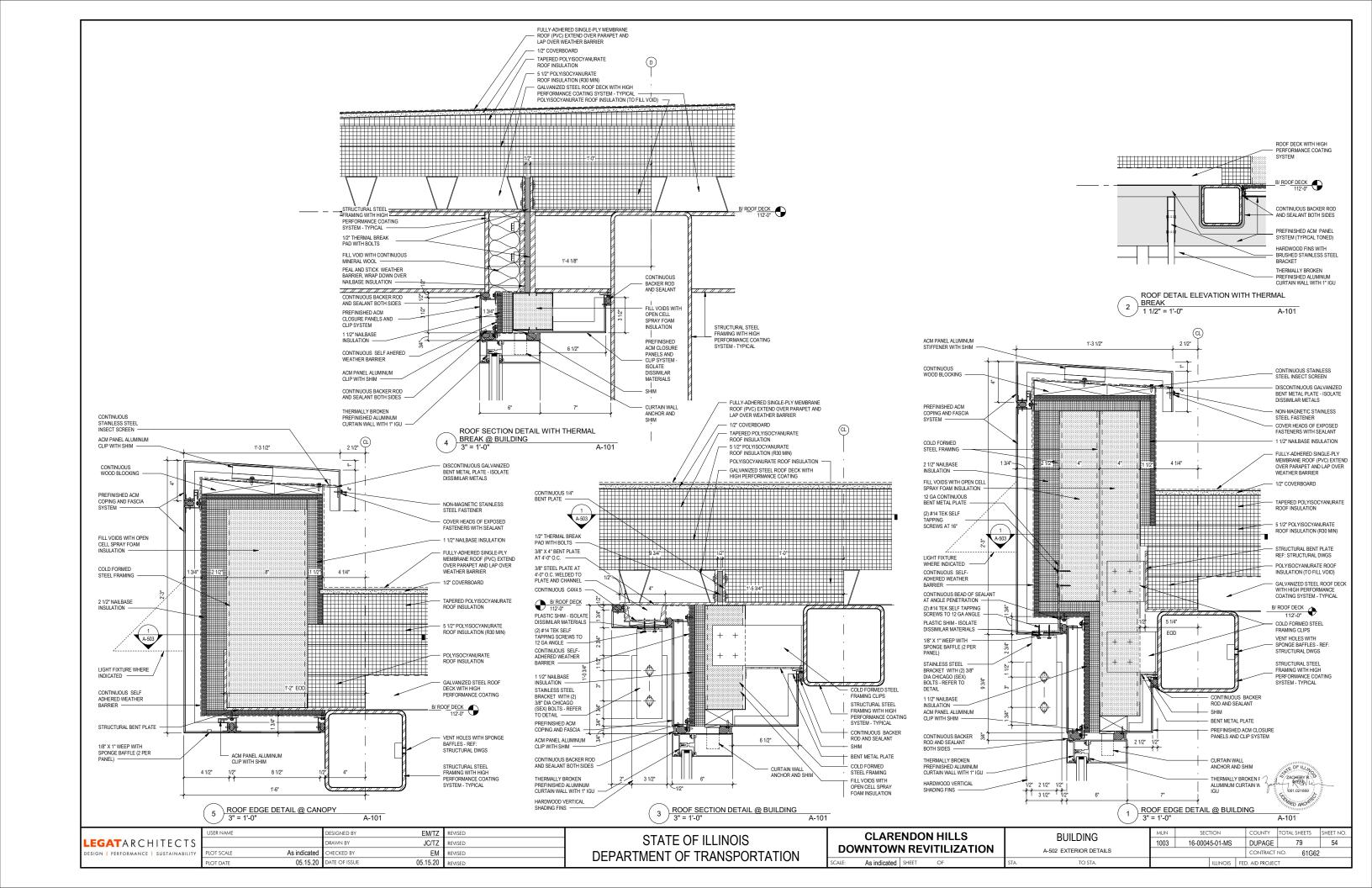


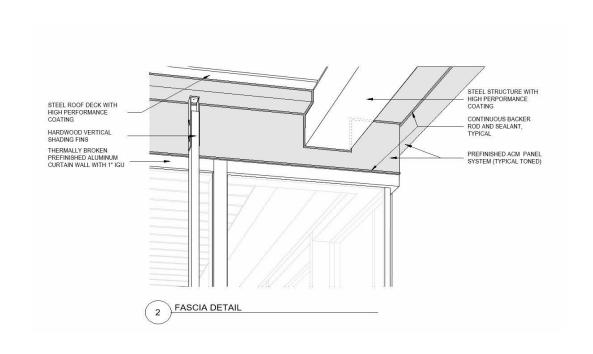
FULL-SIZE MOCK-UP AT TRAIN STATION:
MATCH EXISTING BOARD-FORMED CONCRETE COLOR, TEXTURE, & FINISH

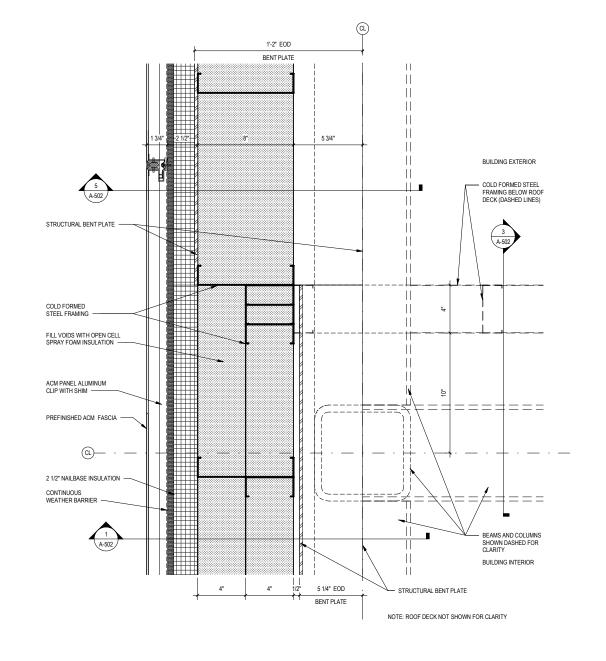
CLARENDON HILLS BUILDING STATE OF ILLINOIS **EGAT**ARCHITECTS 1003 16-00045-01-MS DUPAGE 79 **DOWNTOWN REVITILIZATION** A-103 BOARD-FORMED CONCRETE DETAILS As indicated HECKED BY EM REVISED 61G62 LOT SCALE DEPARTMENT OF TRANSPORTATION ESIGN | PERFORMANCE | SUSTAINABILIT 05.15.20 05.15.20







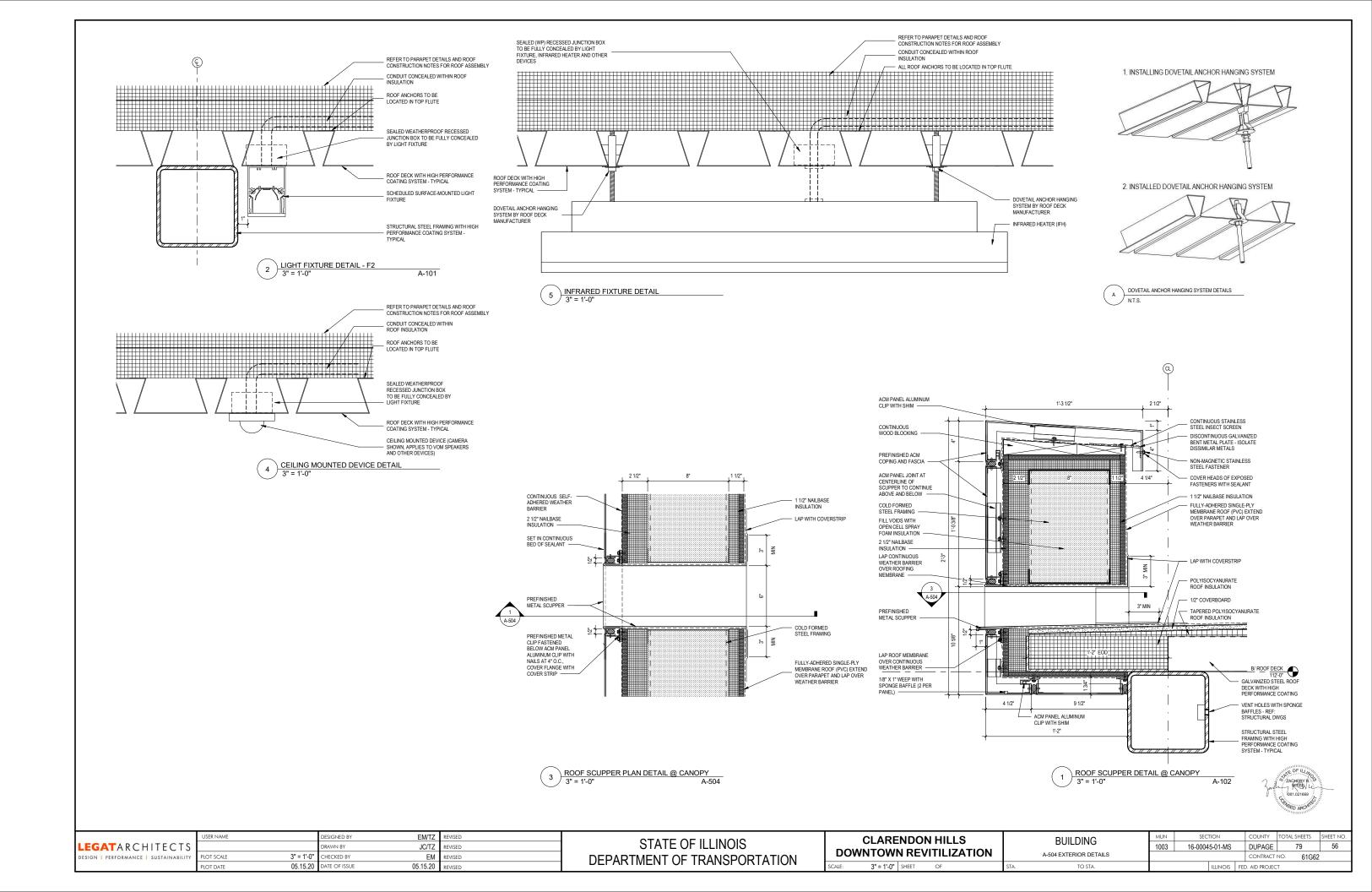


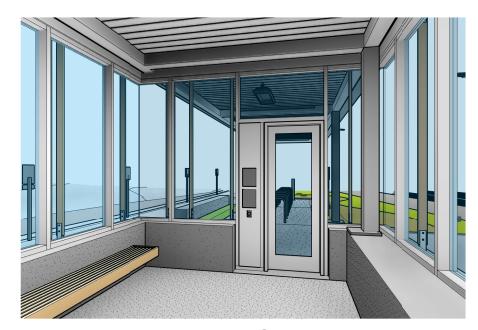






	USER NAME	DESIGNED BY EM/TZ	REVISED	07475 05 11 1 14 10 10	CLARENDON HILLS	BUILDING	MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LEGAT ARCHITECTS		DRAWN BY JC/TZ	REVISED	STATE OF ILLINOIS			1003	16-00045-01-MS	DUPAGE	79	55
DESIGN PERFORMANCE SUSTAINABILITY	PLOT SCALE 3" = 1'-0"	CHECKED BY EM	REVISED	DEPARTMENT OF TRANSPORTATION	DOWNTOWN REVITILIZATION	A-503 EXTERIOR DETAILS			CONTRACT	NO. 61G6	i2
	PLOT DATE 05.15.20	DATE OF ISSUE 05.15.20	REVISED	DELARTIMENT OF TRAINGLORIATION	SCALE: 3" = 1'-0" SHEET OF	STA. TO STA.		ILLINOIS	FED. AID PROJE	CT	

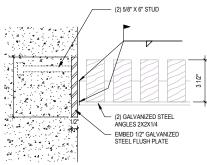


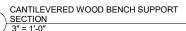


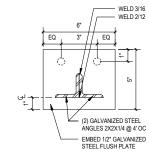




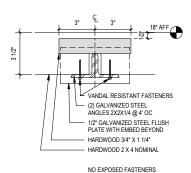
HARDWOOD SHADING FIN SAMPLE





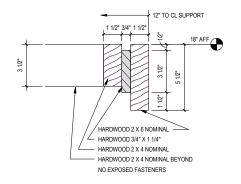


CANTILEVERED WOOD BENCH SUPPORT ELEVATION
3" = 1'-0"

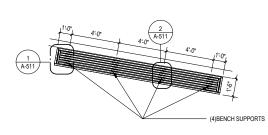


6 TYPICAL BENCH SUPPORT DETAIL
3" = 1'-0"

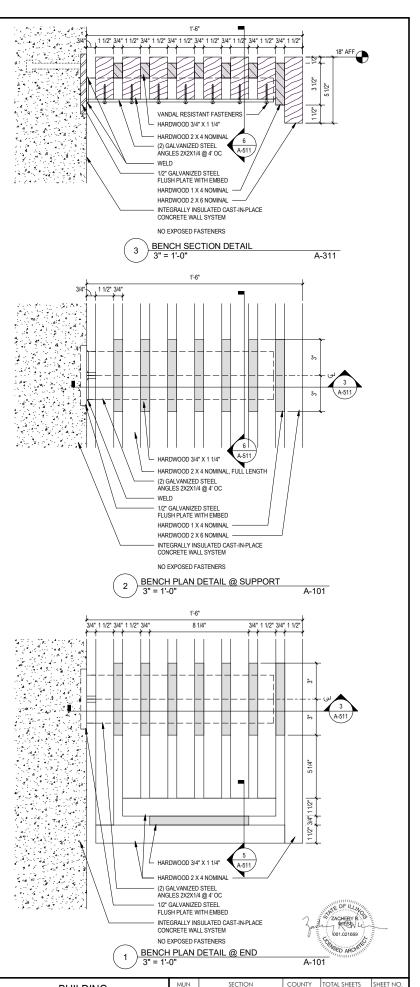
A-511



BENCH SECTION DETAIL @ END 3" = 1'-0"



4 BENCH SUPPOTS LOCATION
1/4" = 1'-0"



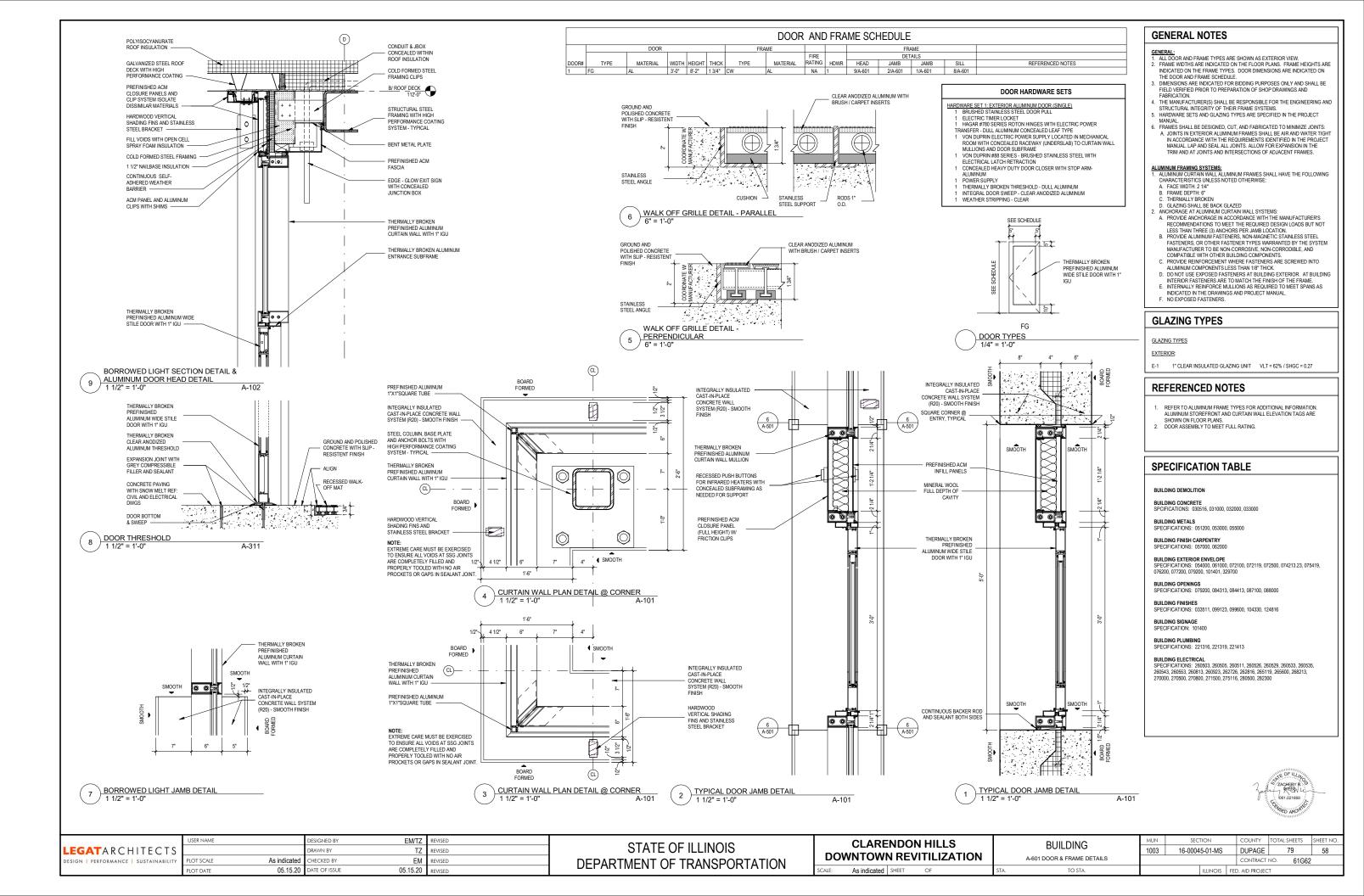
LEGAT ARCHITECTS	ŀ
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USER NAME		DESIGNED BY	EM/TZ	REVISED	
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PLOT SCALE	As indicated	CHECKED BY	EM	REVISED	l
PLOT DATE	05.15.20	DATE OF ISSUE	05.15.20	REVISED	
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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SCALE:	As indicated	SHEET	OF	

BUILDING	MUN	SEC	TION		COUNTY	TOTAL SH	IEETS	SI
BUILDING	1003	16-0004	5-01-MS		DUPAGE	79	9	Г
A-511 INTERIOR DETAILS					CONTRACT	NO.	61G62	
TO STA.			ILLINOIS	FEE	D. AID PROJEC	Т		



SYMBOL	LIST DESCRIPTION	SYMBOL	
	ANGLE GATE VALVE	- 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	NON-FREEZE WALL HYDRANT
-₩	ALARM CHECK VALVE	- A -	OS&Y VALVE
->-	BALANCING COCK	TS	OS&Y WITH TAMPER SWITCH
⊸ 5⊢−	BALL VALVE / ISOLATION VALVE		
- -	CHECK VALVE	\rightarrow	P-TRAP
₹¥	DETECTOR CHECK VALVE WITH BY-PASS METER	L	PRESSURE GAUGE
— —	ELBOW DOWN		PIPE CAP DESCRIPTION
\multimap	ELBOW UP		PUMP (TYPICAL)
•	FLOOR CLEAN OUT	→ > -	SHUT-OFF VALVE
•	FLOW ARROW	 	STRAINER SIAMESE FIRE DEPT. CONNECTION
FS -	FLOW SWITCH		TAMPER SWITCH
->	GLOBE VALVE	-	TEE DN
 	HOSE BIB	-0-	TEE UP
— ■ BF	INLINE BACK FLOW PREVENTER	П	THERMOMETER
	MIXING VALVE	 	UNION
\dashv	WALL/PIPE CLEAN OUT	, .	
	WALL SLEEVE		

SYSTEMS ABBREVIATIONS	
ABBREVIATION	SYSTEM NAME
DCW	DOMESTIC COLD WATER
DHW	DOMESTIC HOT WATER
SAN	SANITARY
ST	STORM
V	VENT

PLUMBING ABBREVIATIONS

KEY NAME COMMENT ABOVE FINISH FLOOR AFF AIR HANDLING UNIT ARCH ARCHITECTURAL BFP BACKFLOW PREVENTER

BLD BUILDING BOP BOTTOM OF PIPE

CONDENSATE DRAIN CFH CUBIC FEET PER HOUR CAST IRON

CENTER LINE CEILING COFFEE MAKER

CLG CM CO CLEANOUT CSW COLD SOFT WATER CHECK VALVE

CV D DET DETAIL DRAINAGE FIXTURE UNITS

DIA. Ø DIAMETER DN DT

FOUNDATION DRAIN TILE DV DRAIN VALVE DWG DRAWING

DWS EC DOMESTIC WATER SERVICE ELECTRICAL CONTRACTOR FI EVATION

ELEC ELECTRICAL EP ELEVATOR PUMP EQUIP

EXISTING TO REMAIN ETR ELECTRIC WATER COOLER EWH FCO ELECTRC WATER HEATER FLOOR CLEANOUT

FD FLOOR DRAIN FF FL FV FINISH FLOOR FLEVATION FIRE PROTECTION CONTRACTOR

FT GF GLYCOL FILL STATION GPM GALLON PER MINUTE

HD ICW HUB DRAIN INDUSTRIAL COLD WATER KW LAV KILOWATT LAVATORY

MAX MAXIMLIM MB MOP BASIN MECHANICAL CONTRACTOR

MC MECH MECHANICAL MIN MINIMUM MISC MISCELLANEOUS

NC NORMALLY CLOSED NFWH NON FREEZE WALL HYDRANT NO NORMALLY OPEN

NTS NOT TO SCALE PLUMBING CONTRACTOR

PCP PUMP CONTROL PANEL PRESSURE GAUGE PRESSURE REDUCING VALVE PSI POUNDS PER SQUARE INCH

PSIG POUNDS PER SQUARE INCH GAUGE PVC POLYVINYL CHLORIDE PW REX REMOVE EXISTING RECIRCULATION PUMP

SAIN SANITARY WASTE SUMP PUMP

SPECIFICATION
STORM, PUMP DISCHARGE TO MEET
PRESSURIZED WASTE PIPING
REQUIREMENTS SPEC ST

T&P TEMPERATURE & PRESSURE RELIEF TO BE DETERMINED TDH TOTAL DYNAMIC HEAD TEMP or T TEMPERATURE

THX THERMAL EXPANSION TANK THERMOSTATIC MIXING VALVE TRAP PRIMER

UNLESS NOTED OTHERWISE UNO

VTR VENT THRU ROOF W/ WC WATER CLOSET WALL CLEANOUT

WCO WCO YARD CLEANOUT WHA WATER HAMMER ARRESTER WATER SOFTENER DEGREE

DEGREES FAHRENHEIT DIAMETER

GENERAL PLUMBING NOTES: APPLICABLE TO ALL PLUMBING DRAWINGS

- DEFINITIONS
 A. "FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO DELIVERY OF AN ITEM OF
 EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION. EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION.
- B. "INSTALL" MEANS TO SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER.
- D. "FUTURE", "BY OTHERS", "REFER (DISCIPLINE) DIVISION" AND SIMILAR EXPRESSIONS INDICATE WORK THAT MAY BE PERFORMED UNDER THE CONTRACT DOCUMENTS BUT, NOT NECESSARILY UNDER THE DIVISION OR DISCIPLINE ON WHICH THE NOTE APPEARS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK WITH SUPPLIERS, SUBCONTRACTORS, EMPLOYEES, ETC. SHOULD CLARIFICATION OF ANY PORTION OF THE WORK BE REQUIRED. CONTACT THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BID

THE WORK SHALL COMPLY WITH LATEST ILLINOIS BUILDING CODE. THIS WOULD INCLUDE BUT IS NOT LIMITED TO, THE CURRENT CITY BUILDING CODE. AMENDMENTS, NFPA, ANSI, OSHA, AND ALL OTHER LOCAL OR MUNICIPAL BIREAUS AND DEPARTMENTS WHICH HAVE AUTHORITY OVER THE PROJECT; ANYTHING IN THESE CONTRACT DOCUMENTS NOT WITHSTANDING. THIS SHALL NOT BE CONSTRUED AS WAIVING COMPLIANCE WITH ANY REQUIREMENTS OF THE PLANS AND SPECIFICATIONS WHICH MAY BE IN EXCESS OF ANY REQUIREMENTS OF THESE CODES.

 INTERPRETATION OF THE DOCUMENTS
 A THE PLUMBING CONTRACTOR SHALL CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING THE MEASUREMENTS AND CONDITIONS UNDER WHICH CONSTRUCTION IS TO BE IMPLEMENTED. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS THE OFFICE OF THE PROPERTY OF THE STATE OF THE PROPERTY OF THE PROPERTY OF THE STATE OF THE PROPERTY OF AND/OR SPECIFICATIONS, THE DISPUTED ISSUE SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE PLUMBING CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS WORK A COMPLETE AND READY-TO-USE INSTALLATION. IF NOT SO-STATED IN THE PLUMBING CONTRACTOR'S PROPOSAL ANY SUCH WORK WILL NOT BE CONSIDERED ADDITIONAL.

- 4. COORDINATION
 A. THE PLUMBING DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED. ROUTING OF PIPING, DUCTWORK, CONDUITS, RACEWAYS, ETC. AS SHOWN ON THE DRAWINGS DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK, TO THIS EXTENT, DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED
- B. THE PLUMBING CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL EXISTING B. THE PLUMBING CONTRACTOR SHALL COORDINATE THE SEACT LOCATION OF ALL EXISTING AND NEW REQUIRED WORK AND EQUIPMENT WITH THAT OF THE OTHER TRADES. WHERE THERE ARE POTENTIAL CONFLICTS, THE PLUMBING CONTRACTOR SHALL DISTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL FIELD CONDITIONS, ALL CHANGES TO EXISTING OR NEW PLUMBING EQUIPMENT, PIPES, FITTINGS, ETC. SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN THE COMPLETION DATE OF THE PROJECT.
- C. REFER TO ARCHITECTURAL/MECHANICAL DRAWINGS FOR PLANS, ELEVATIONS AND DETAILS INDICATING THE LOCATIONS OF CEILING ELEMENTS (E.G., LIGHTS, SPRINKLERS, DIFFUSERS ETC.) AND WALL ELEMENTS. CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION, THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.
- D. THE PLUMBING CONTRACTOR SHALL SUBMIT SKETCHES TO ARCHITECT FOR APPROVAL,
- E. COORDINATE & VERIFY WITH GENERAL CONTRACTOR AND RELATED DISCIPLINES PRIOR TO START OF ANY WORK, ALL WORK TO BE PERFORMED INSIDE OF THE 5-0° BUILDING PERIMETER LIMITS OF CONSTRUCTION AND COORDINATED WITH OTHER TRADES TO MATCH WORK
- F. ALL FLOOR MOUNTED EQUIPMENT NOT PROVIDED ON A SKID IS TO BE INSTALLED ON 4" THICK
- G. THE PLUMBING CONTRACTOR SHALL GIVE ALL LOCATIONS AND DIMENSIONS OF ALL REQUIRED ACCESS PANELS TO THE GENERAL CONTRACTOR. GENERAL CONTRACTOR WILL SUBMIT TO THE ARCHITECT/ENGINEER FOR APPROVAL ALL FINISH REQUIREMENTS PRIOR TO INSTALLATION. THE PLUMBING CONTRACTOR SHALL FURNISH THE ACCESS PANELS. THE GENERAL CONTRACTOR SHALL INSTALL THE ACCESS PANELS.
- H. ALL PIPING, VALVES AND DEVICES SHALL BE INSTALLED SO AS NOT TO OBSTRUCT ANY PORTION OF A WINDOW, DOORWAY, STAIRWAY OR PASSAGEWAY OR ANY PIECE OF MECHANICAL OR ELECTRICAL EQUIPMENT.

- A. THE PLUMBING CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS. VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE CONDITIONS UNDER WHICH CONSTRUCTION WILL BE IMPLEMENTED. THE PLUMBING CONTRACTOR SHALL NOTIFY ARCHITECTIENGINEER OF ANY DISCREPANCIES BETWEEN PLANS AND ACTUAL CONDITIONS. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. FAILURE TO DO SO SHALL NOT RELIEVE THE PLUMBING CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. ANY LATER CLAIMS FOR LABOR. FOUIPMENT, OR MATERIALS EQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZE
- B. WATER PRESSURE AND SUPPLY INFORMATION: FIELD VERIFY ALL PRESSURES AND CAPACITIES. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR FLOW TEST INFORMATION.
- C. CATCH BASINS AND MANHOLES ARE THE RESPONSIBILITY OF THE SITE CONTRACTOR.

A. THE PLUMBING CONTRACTOR SHALL SECURE. OBTAIN AND PAY FOR ALL PERMITS A. THE PLUMBING CONTRACTOR SHALL SECURE, OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, TAXES, LICENSES, AND FEES TO ALL GOVERNMENT AGENCIES REQUIRED FOR THE EXECUTION AND COMPLETION OF THE PLUMBING WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BETHE RESPONSIBILITY OF THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR. THE PLUMBING CONTRACTOR SHALL PREPARE AND SUBMIT ALL SHOP DRAWINGS AS REQUIRED TO THE GOVERNMENTAL AGENCIES AND UTILITY COMPANIES FOR THEIR APPROVAL.

A. THE PLUMBING CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE CLIENT'S EMPLOYEES, BUILDING EMPLOYEES AND GUESTS AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CABLE, FOUIPMENT, OR DEVICES. THROUGHOUT THE COURSE OF THIS WORK.

B. ALL PLUMBING FLEMENTS THAT ARE IN CONTACT WITH POTABLE / DRINKING WATER SHALL BE NSF 61 CERTIFIED

8. CONTRACTOR'S DRAWING REVIEW

- A. ALL CONTRACTORS/BIDDERS SHALL HAVE RECEIVED A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR REVIEW AND REFERENCE TO WORK INDICATED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FINISHED CEILING HEIGHTS. AND LOCATION OF WALL, ROOF, AND FLOOR OPENINGS. PIPE LOCATE SERVICES SHALL BE REQUESTED AND COMPLETED BEFORE DISTURBANCE OF ANY EXISTING GRADE OR ON
- B. THE PLUMBING CONTRACTOR SHALL CONFIRM THAT PIPE LOCATE SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONFLICTS EXIST BEFORE EXISTING GRADE IS EXCAVATED OR EXISTING FLOORING DEMOLISHED, REGARDLESS OF THE LOCATION ON THE PROPERTY. THIS SHALL BE REVIEWED WITH THE OWNER'S PROJECT REPRESENTATIVE.

9. STATEMENT OF WORK

- A. THE PLUMBING CONTRACTOR SHALL PROVIDE THE COMPLETE PLUMBING INSTALLATION OF
- B. PRIOR TO COMMENCEMENT OF WORK, THE PLUMBING CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL, ANY SEQUENCE OF WORK, MOPS (METHOD OF PROCEDURE) AND/OR COORDINATION SHOP DRAWINGS FOR THE INTENDED WORK.
- C. THE PLUMBING CONTRACTOR SHALL REMOVE AL EXISTING EQUIPMENT AND MATERIALS PERTAINING TO THEIR CONTRACT AS SPECIFIED OR AS REQUIRED WEATHER SHOWN ON THE DRAWINGS OR NOT, TO PREPARE FOR THE NEW WORK.
- D. THE PLUMBING CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, VIOLATION OF LAWS. ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION; FAILURE TO DO SO BEFORE CONDUCTING WORK WILL NOT CONSTITUTE LACK OF RESPONSIBILITY ON THE PART OF THE CONTRACTOR, AND ANY LATER CLAIMS FOR LABOR. EQUIPMENT. OR MATERIALS
- E. DISRUPTION OF ANY EXISTING SERVICES SHALL BE COORDINATED WITH THE OWNER, AND SHALL BE PERFORMED AT A TIME AND MANNER SO AS TO CAUSE THE OWNER A MINIMUM OF

10. WORK PERFORMANCE REQUIREMENTS

- A. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH LOCAL CODES. THESE CODES SHALL BE FOLLOWED AS A MINIMUM PROVIDING HIGHER GRADES OF MATERIAL AND WORKMANSHIP WHERE REQUIRED BY THESE DOCUMENTS. PROVIDE ALL TESTS REQUIRED BY
- B. ALL PIPING PASSING THRU FLOORS, WALLS, CEILINGS OR ROOF SHALL HAVE A DUCTILE IRON PIPE SLEEVE INSTALLED AROUND THE PIPE ANDIOR INSULATION. SLEEVES THROUGH FOUNDATION WALLS SHALL BE AT LEAST 2 PIPE SIZES LARGER THAN THE SERVICE PIPE.
- C. PROVIDE AN ESCUTCHEON PLATE AROUND PENETRATIONS EXPOSED TO VIEW.
 ESCUTCHEON PLATES SHALL BE LARGE ENOUGH TO COVER THE ENTIRE HOLE. ALL
 PENETRATIONS SHALL BE SEALED TO MAINTAIN THE WALLIFLOORIROOF FIRE & INSULATION
- D. ALL TEMPORARY WALL AND FLOOR OPENINGS SHALL BE PROTECTED AND MARKED AT ALL
- E. NO WELDING SHALL TAKE PLACE INSIDE OF OPERATING FACILITY WITHOUT THE WRITTEN AUTHORIZATION OF THE OWNER'S PROJECT REPRESENTATIVE. WELDING SHALL NOT TAKE PLACE WITHIN 5 FEET OF ANY TELECOM FOLIPMENT RACK WITHOUT ADEQUATE PROTECTIVE
- F. TRENCHING, EXCAVATION, AND BACKFILL OPERATIONS SHALL BE IN ACCORDANCE WITH

11 CUTTING AND PATCHING

A. ALL CUTTING, DRILLING AND PATCHING OF MASONRY STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THE PLUMBING CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT. EXCEPT AT THE DIRECTIONS OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE PATCH ALL DISTURBED WALLS, CEILINGS AND FLOORS TO MATCH ADJACENT SURFACES AS

12. EQUIPMENT
A. THE PLUMBING CONTRACTOR SHALL PROVIDE PROPER WORKING CLEARANCE IN FRONT AND AROUND EQUIPMENT PER THE MANUFACTURERS RECOMMENDATIONS.

13. SANITARY, STORM & VENT

- A. ALL SANITARY AND STORM PIPING SHALL SLOPE AT 1/4" PER FOOT FOR 2-1/2" AND SMALLER, AT 1/8" PER FOOT FOR 3" TO 6", AND 1/16" FOR 8" AND LARGER PIPING UNLESS INDICATED OTHERWISE
- B. ALL HORIZONTAL DRAINS SHALL BE PROVIDED WITH CLEANOUTS LOCATED NO MORE THAN 50 FEET APART FOR DRAINS 4" OR LESS, 100 FEET FOR DRAINS 6" & 8", AND 150 FEET FOR DRAINS 10" OR LARGER. CLEANOUTS SHALL BE INSTALLED AT EACH CHANGE OF DIRECTION OF THE DRAINAGE PIPE GREATER THAN 45 DEGREES.
- C. THE DIAMETER OF ALL VENTS SHALL BE AT LEAST ONE-HALF THE DIAMETER OF THE DRAIN LINE SERVED BUT NOT LESS THAN 1-1/2".
- D. RUN NEW WASTE PIPES AS CLOSE AS POSSIBLE TO UNDERSIDE OF FLOOR SLAB AND VENT PIPING AS CLOSE AS POSSIBLE TO SLAB ABOVE.
- E. IN AREAS SUCH AS MECHANICALELECTRICAL ROOMS, WHERE A TRAP SEAL IS SUBJECT TO LOSS BY EVAPORATION, PROVIDE A DEEP SEAL TRAP (CONSISTING OF A 4-INCH SEAL), A TRAP FILLED WITH MINERAL OIL, OR A TRAP PRIMER PER MANUFACTURERS REQUIREMENTS

14. MATERIALS

- A. UNDERGROUND STORM, DRAINAGE, AND VENT PIPE SHALL BE: CAST-IRON PIPE, HUB SPIGOT: ASTM A-74: ASTM A-888: CISPI 301
- B. ABOVE-GROUND STORM, DRAINAGE AND VENT PIPE SHALL BE: CAST-IRON PIPE, HUB & SPIGOT: ASTM A-74; CISPI 301; ASTM A888 COPPER OR COPPER-ALLOY PIPE: ASTM B-302 COPPER OR COPPER-ALLOY TUBING (TYPE K OR L): ASTM 75; ASTM B-88; ASTM B-251; ASTM B-306 GALVANIZED STEEL PIPE: ASTM A-53
- C. GASKETED BELL AND SPIGOT C.I. PIPING IS RESERVED FOR UNDERGROUND USE. ABOVE GROUND SHALL BE CAULKED JOINTS.

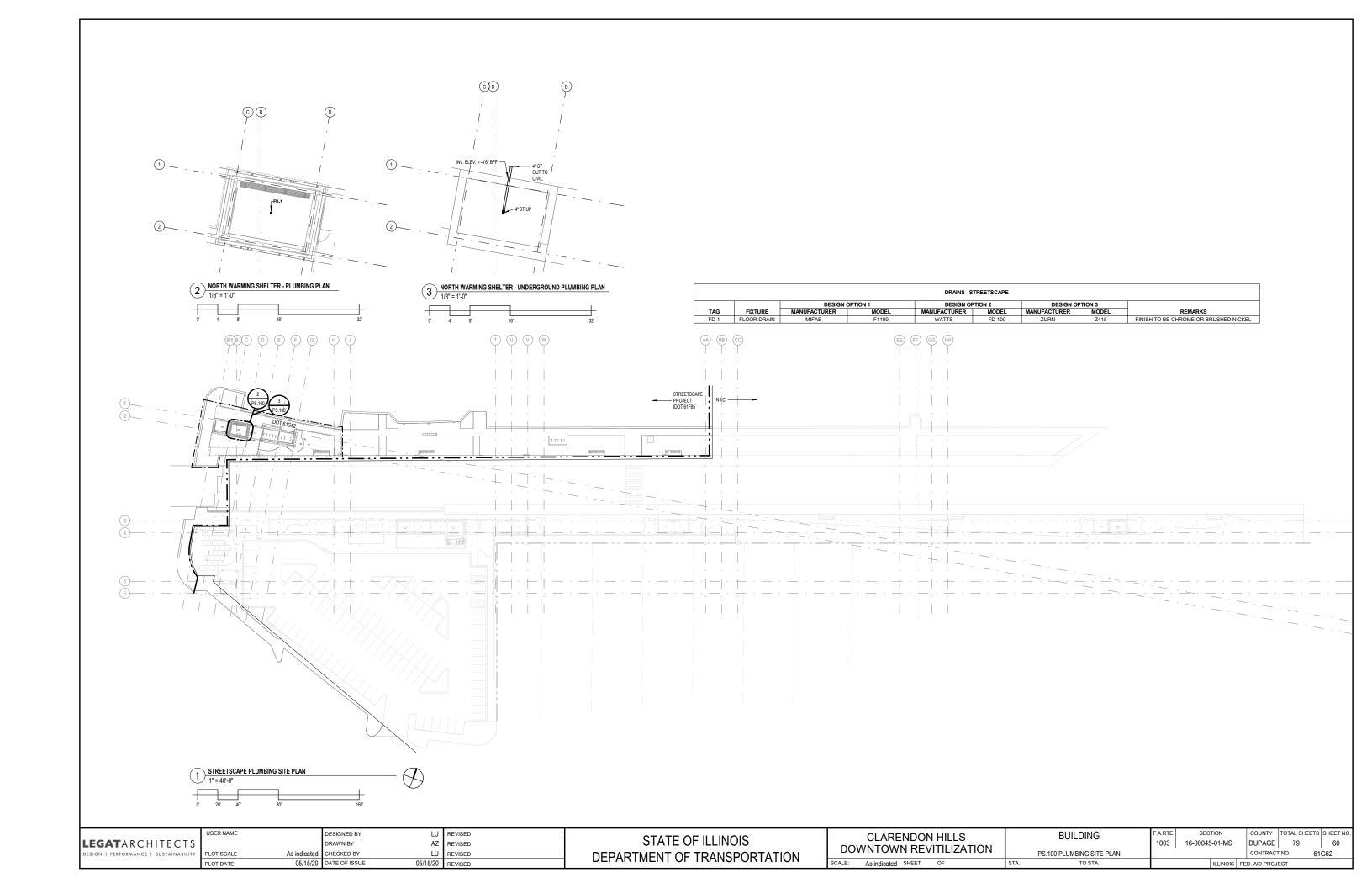
15 ADDITIONAL REQUIREMENTS

- A. FOR EXACT LOCATION OF PLUMBING FIXTURES, REFER TO ARCHITECTURAL PLANS AND
- B. PROVIDE ACCESS TO ALL VALIVES AND SYSTEM COMPONENTS REQUIRING ACCESS. ALL PIPING ACCESSORIES AND EQUIPMENT IN MECHANICAL ROOMS SUCH AS ISOLATION VALIVES, RECIRCULATION PUMPS, ETC. SHALL BE INSTALLED AT A REASONABLE HEIGHT IN ORDER TO
- C. FACTORY MUTUAL RESEARCH CORPORATION APPROVED EQUIPMENT SHALL BE PROVIDED WHERE APPLICABLE AND DETAILS OF THE INSTALLATIONS SHALL CONFORM TO FACTORY MUTUAL'

- A THE PLUMBING CONTRACTOR SHALL PROVIDE ALL "AS-BUILT" DRAWINGS SCALED 1/4" MINIMUM AND SUBMIT FOR APPROVAL TO THE ARCHITECT/ENGINEER.
- B. SUBMIT ASSEMBLED PRINTED INSTRUCTIONS FOR THE OPERATION AND MAINTENANCE OF EACH ITEM INSTALLED ALONG WITH EQUIPMENT CUTS AND CONTROL WIRING DIAGRAMS

GENERAL NOTE: NOT ALL SYMBOLS, NOTES AND ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT

	USER NAME	DESIGNED BY LU	REVISED	07475 05 11 1 14 10 10	CLARENDON HILLS	BUILDING	F.A.RTE. SECTION	COUNTY TOTAL SHEETS SHEET NO
LEGAT ARCHITECTS		DRAWN BY AZ	REVISED	STATE OF ILLINOIS	DOWNTOWN REVITILIZATION	PS.000 PLUMBING SYMBOLS, NOTES &	1003 16-00045-01-	MS DUPAGE 79 59
DESIGN PERFORMANCE SUSTAINABILITY	PLOT SCALE 12" = 1'-0"	CHECKED BY LU	REVISED	DEPARTMENT OF TRANSPORTATION	DOWNTOWN REVITILIZATION	ABBREVIATIONS		CONTRACT NO. 61G62
	PLOT DATE 05/15/20	DATE OF ISSUE 05/15/20	REVISED	DELAKTIVIENT OF TRANSPORTATION	SCALE: 12" = 1'-0" SHEET OF	STA. TO STA.	ILLI	NOIS FED. AID PROJECT



ELECTRICAL OPTIONS AND MOUNTING CODES DEVICE OPTIONS ABBRV DESCRIPTION TAMPER PROOF TYPE DEVICE AND COVER WEATHER PROOF TYPE DEVICE AND COVER WIRE GUARD DEVICE AND COVER VANDEL RESISTANT DEVICE AND COVER GFI GROUND FAULT INTERRUPTION AND PROTECTION SHUNT TRIP INTERRUPTION AND PROTECTION USB USB CHARGER DEVICE ARCHITECTURAL EQUIPMENT REFER TO SCHEDULE DWGS XXX FOR EQUIPMENT SCHEDULES FOR CIRCUIT INFORMATION

FIRE ALA	ARM DETECTION
S	INTELLIGENT MANUAL PULL STATION
SD	INTELLIGENT SMOKE DETECTOR
MM	INTELLIGENT MONITOR MODULE
(AV)	AUDIBLE AND VISUAL ALARM DEVICE
FACP	FIRE ALARM CONTROL PANEL

RECEPTA	<u>CLES</u>
=	WALL MOUNTED DUPLEX RECEPTACLE
₩-	WALL MOUNTED QUAD RECEPTACLE
0	RECESSED FLOOR BOX MOUNTED DUPLEX REC
® -	WALL MOUNTED NEMA RECEPTACLE
	ABOVE COUNTER MOUNTED DUPLEX RECEPTACLE 48" AFF

RISER ELE	ECTRICAL DIAGRAM/SYMBOLS
₹ <u></u>	POLY PHASE TRANSFORMER
36	POTENTIAL TRANSFORMER
	CURRENT TRANSFORMER
10	GROUND
⊢	CONTACTOR
-~-	CIRCUIT BREAKER
-~	SINGLE THROW SWITCH
	FUSE

CONDUITS	RACEWAYS WIREWAYS & J-BOXES
<u> </u>	JUNCTION BOX JUNCTION BOX - WALL MOUNTED
Н	HAND HOLE

LIGHT FIXTURE MOTOR, LISTED-EQUIPMENT, SWITCHES-OPERATORS SWITCH LEG CONTROL LETTER CODE(S) THREE WAY SWITCH FOUR WAY SWITCH KEY OPERATED SWITCH OCCUPANCY SENSOR SWITCH THERMAL SWITCH WALL SWITCH LTG SWITCHES SHOWN ON LTG PLAN VIEWS. FOR SWITCHES SHOWN ON PWR PLAN VIEWS SINGLE POLE TWO-POSITION 20A TOGGLE SWITCH U.N.O. ON THE DWGS WITH OS CEILING MOUNTED DUAL TECHNOLOGY 360° OCCUPANCY SENSOR, UNLESS NOTED WALL SWITCH MOUNTED PASSIVE INFRARED 180° OCCUPANCY SENSOR

PUSH BUTTON TIMER FOR ELECTRICAL INFRARED HEATER

EXIT SIG	<u>NS</u>		
X1 2 #2A	SCHEDULE FOI "2" INDICATES BRA "#3" INDICATES VISI EXIT-STAIR-FIRE ESCAP	T FIXTURE TYPE, REFER R DESCRIPTION, CAT #, A NICH CIRCUIT NUMBER UAL SIGNAGE TYPE SEE E DIRECTIONAL SIGN NO	
#9 #11A #12	SYMBOLS CEILING MOUNTED - SINGLE FACE SINGLE FACE	CEILING MOUNTED - DOUBLE FACE	WALL MOUNTED SINGLE FACE
#17A #18 #20A #21 #23A #24	#2A 'STAIRS' #3 'EXIT' #5A 'STAIRS' #6 'EXIT' #8A 'STAIRS' #9 'EXIT' #11A 'STAIRS' #12 'FXIT'	#17A 'STAIRS' #18 'EXIT' #20A 'STAIRS' #21 'EXIT' #23A 'STAIRS' #24 'EXIT'	#28

LIGHTING LUM		<u></u>
LIGHTING FIXTURE		INDICATES SINTURE THE DESERVE TO LIGHTING SINTURE
-23A	"F2"	INDICATES FIXTURE TYPE REFER TO LIGHTING FIXTURE SCHEDULE FOR DESCRIPTION AND MOUNTING.
	"3"	INDICATES BRANCH CIRCUIT NUMBER
	"A"	INDICATES SWITCH CONTROL LETTER CODE

ALL WORK AND EQUIPMENT SHALL BE NEW.
ALL CONDUIT SHALL BE 3/4" MINIMUM. ALL CONDUCTORS SHALL NE #12 THHN, MINIMUM.

PROVIDE #10 THHN CONDUCTORS FOR CIRCUITS INSTALLED 150FT AND ABOVE



ABBREVIATIONS GENERAL ELECTRICAL NOTES ABOVE COUNTER ABOVE FINISHED FLOOR

AUTOMATIC TRANSFER SWITCH

DOUBLE POLE DOUBLE THROW

FLECTRIC WATER COOLER

FIRE ALARM ANNUNCIATOR

CIRCUIT BREAKER

CONDUIT ONLY

CONTROL PANEL

DISCONNECT

EMERGENCY EMERGENCY POWER OFF

FIRE ALARM

FAN COIL UNIT FAN POWERED BOX

JUNCTION BOX

NOT TO SCALE

TELEPHONE

TAMPER PROOF UNIT HEATER

WATERTIGHT

MAIN CIRCUIT BREAKER MAIN LUGS ONLY MEDIUM VOLTAGE

NORMALLY CLOSED (CONTACTS) NOT IN CONTRACT NORMALLY OPEN (CONTACTS)

POTENTIAL TRANSFORMER REFLECTED CEILING PLAN SECONDARY

SINGLE POLE DOUBLE THROW

KILOVOLT

KILOWATT

LIGHTING

CP DISC

DPDT

EPO

FAA

LTG

MCB

NTS

1. DEFINITIONS

"FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO DELIVERY OF AN ITEM OF FOLIPMENT TO THE PROJECT. "FURNISH" MEANS 10 "SUPPLY" AND USUALLY REFERS 10 DELIVERY OF AN ITEM OF EQUIPMENT 10 THE PROJ SITE, READY FOR INSTALLATION. EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION. "INSTALL" MEANS TO SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER. PROVIDE" MEANS TO THURNS AND "INSTALL". "FUTURE", "BY OTHERS", "REFER (DISCIPLINE) DIVISION" AND SIMILAR EXPRESSIONS INDICATE. WORK THAT MAY BE PERFORMED UNDER THE CONTRACT DOCUMENTS BUT, NOT NECESSARILY UNDER THE DIVISION OR DISCIPLINE ON WHICH THE NOTE APPEARS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK WITH SUPPLIERS, SUBCONTRACTORS, EMPLOYEES, ETC. SHOULD CLARIFICATION OF ANY PORTION OF THE WORK BE REQUIRED, CONTACT THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BID.

2. CODES

THE WORK SHALL COMPLY WITH LATEST BUILDING CODE. THIS WOULD NCLUDE, BUT IS NOT LIMITED TO, THE CURRENT BUILDING CODE. AMMENDMENTS, NFPA, ANSI, OSHA, AND ALL OTHER LOCAL OR MUNICIPAL BUREAUS AND DEPARTMENTS WHICH HAVE AUTHORITY OVER THE PROJECT, ANYTHING IN THESE CONTRACT DOCUMENTS OF THE VIOLENT ANY TEXTURE ANY REVOIREMTS OF THE PLANS AND SPECIFICATIONS WHICH MAY BE CONTRACT BOOKED.

3. INTERPRETATION OF THE DOCUMENTS

THE CONTRACTOR SHALL CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS. CHECKING THE THE CONTRACTOR SHALL CAREFULLY COMPARE THE DRAWNIOS AND SPECIFICATIONS, CHECKING THE MEASUREMENTS AND COMDITIONS UNDER WHICH CONSTRUCTION IS TO BE IMPLEMENTED. FOR CHARRICATION BETWEEN VARIOUS DRAWNIGS AND/OR SPECIFICATIONS, THE DISPUTED ISSUE SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS WORK A COMPLETE AND READY-TO-USE INSTALLATION. IF NOT SO-STATED IN THE CONTRACTOR'S PROPOSAL, ANY SUCH WORK WILL NOT BE CONSIDERED ADDITIONAL.

4. COORDINATION

THE ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED. TO THIS EXTENT, DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL REQUIRED WORK AND EQUIPMENT WITH THAT OF THE OTHER TRADES. WHERE THERE ARE POTENTIAL CONFLICTS, THE CONTRACTOR SHALL OSTAN AND VERSIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, ETC. AT THE SITE AND SHALL SATISFACTORILLY ADAPT HIS WORK TO ACTUAL FIELD COUNDEDLYS. RECEIPED AND EXCELS THE AND SHALL SATISFACTORILLY ADAPT HIS WORK TO ACTUAL FIELD COUNDEDLYS. RECEIPED AND EXCELS THE AND SHALL SATISFACTORILLY ADAPT HIS WORK TO ACTUAL FIELD COUNDEDLYS. RECEIPED AND EXCELS THE AND SHALL SATISFACTORILLY ADAPT HIS WORK TO ACTUAL FIELD. CONDITIONS. REFER TO ARCHITECTURALIMECHANICAL DRAWINGS FOR PLANS, ELEVATIONS AND DETAILS INDICATING THE LOCATIONS OF CEILING ELEMENTS (E.G., LIGHTS, SPRINKLERS, DIFFUSERS, ETC.) AND WALL ELEMENTS. CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS.

5. SITE EXAMINATION

THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEYOF THE CONDITIONS UNDER WHICH CONSTRUCTION WILL BE MIPLEMENTED. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUCTOR OF THE OBLIGATIONS OF THAT SUCH AN EXAMINATION HAS BEEN MADE. FAILURE TO DO SO SHALL NOT RELEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACTOR VIA THE CAUSE FOR LASOR. COUMENANT, OR MAKE THE CONTRACTOR OF THE OBLIGATIONS OF THE SENDENCH THE CONTRACTOR OF THE CONTRACTOR OF THE SENDENCH THE CONTRACTOR OF THE

6. PERMITS

THE CONTRACTOR SHALL SECURE, OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, TAXES, LICENCES, AND FEES TO ALL GOVERNMENT AGENCIES REQUIRED FOR THE EXECUTION AND COMPLETION OF THE ELECTRICAL WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BET HE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PREPARE AND SUBMIT ALL SHOP DRAWINGS AS REQUIRED TO THE GOVERNMENTAL AGENCIES AND UTILITY COMPANIES FOR THEIR APPROVAL.

THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE CLENT'S EMPLOYEES, BUILDING EMPLOYEES AND GUESTS AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CABLE, EQUIPMENT, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.

8. CONTRACTOR'S DRAWING REVIEW

ALL CONTRACTORS/BIDDERS SHALL HAVE RECEIVED A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR REVIEW AND REFERENCE TO WORK INDICATED. CONDUIT LOCATE SERVICES SHALL BE REQUESTED AND COMPLETED BEFORE DISTURBANCE OF ANY EXISTING GRADE OR ON-GRADE CONSTRUCTION, SLAD BEHOLITION, OR OTHER ACTIVITES THAT MAY IMPACT BURIED UTILITIES OR COMMUNICATION CONDUITS. THE CONTRACTOR SHALL CONFIRM THAT CANDUIT LOCATE SERVICES A HAVE EEEN COMPLETED AND THAT OP TOTENTIAL CONFLICTS EXIST BEFORE EXISTING GRADE IS EXCAVATED OR EXISTING FLOORING DEMOLISHED, REGARDLESS OF THE LOCATION ON THE PROPERTY. THIS SHALL BE REVIEWED WITH THE OWNER'S PROJECT REPRESENTATIVE

9. STATEMENT OF WORK

THE CONTRACTOR SHALL PROVIDE THE COMPLETE ELECTRICAL INSTALLATION OF WORK AS NDICATED IN THE CONSTRUCTION DOCUMENTS. PRIOR TO COMMENCEMENT, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL, ANY SEQUENCE OF WORK, MOPS (METHOD OF PROCEDURE) ANDIOR COORDINATION SHOP DRAWNOS FOR THE INTENDED WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECTEMORIER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, VIOLATION OF LAWS, ORDINANCES, MULLED AD SECULATION OF THE ARCHITECTEMORIES. RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION.

10. WORK PERFORMANCE REQUIREMENTS

ANY PENETRATIONS OR OPENINGS IN FIRE-RATED PARTITIONS (WALLS OR FLOORS) SHALL BE CLOSED AT THE END ANY PENETRATIONS OR OPENINGS IN RIRE-RATED PARTITIONS (WALLS OR FLOORS) SHALL BE CLOSED AT THE END OF EACH WORK DAY, OR WHENEVER IT IS ANTIOPATED THAT NO FURTHER WORK WILL OCCUR IN THAT OPENING DURING THE DAY. THIS INCLUDES ALL TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH FIREPROOFING TEMPORARY OPENINGS. CLOSURE SHALL BE IN COMPLIANCE WITH FIREPROOFING END OF EACH WORK DAY. ALL TEMPORARY WALL AND FLOOR OPENINGS SHALL BE PROTECTED AND MARKED AT ALL TIMES. PAINTING SHALL BE SCHEDULED SUCH THAT DRYING TIME OCCURS DURING NON-WORKING HOURS FOR OPERATIONS PERSONNEL COMPORT. NO WELDING SHALL TAKE PLACE INSIDE OF OPERATING FACILITY WITHOUT THE WRITTEN AUTHORIZATION OF THE OWNERS PROJECT REPRESENTATIVE. ALL THREE-PHASE PANIELS SERVING SINGLE-PHASE CLOADS SHALL BE BALANCED WITHIN 10 PERCENT, USING AMMETER REGIONGS. MEASUREMENTS SHALL BE TAKEN AT THE END OF CONSTRUCTION AND AGAIN AFTER 30 DAYS IN SERVICE.

ALL CUTTING, DRILLING AND PATCHING OF MASONRY STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE ALL COLITING, INITIAIN AND PALORIMO OF IMPOSITING TSLEED IN INITIAIN WHICH BELLING WISHING THE DILIDING WISH DO DONE BY THIS CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT INDIER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTIONS OF THE ARCHITECT/ENGINEER OR THEIR

12. AS-BUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE ALL "AS-BUILT" DRAWINGS SACLED 1/4" MINIMUM AND SUBMIT FOR APPROVAL TO

13. TEMPORARY POWER AND LIGHTING

THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING FOR THIS WORK DURING CONSTRUCTION. TEMPORARY LIGHTING SHALLAT LEAST BE THE EQUAL OF (1) 100-WATT FIXTURE EVERY 100 SQUARE FEET, WITH A MINIMUM ONE FIXTURE FER ROOM. TEMPORARY LIGHTING SHALL BE LEGHT IN PLACE UNTL. PERMANENT LIGHTING IS COMPLETELY OPERATIONAL COORDINATE TEMPORARY POWER REQUIREMENTS WITH THE OTHER TRADES AND PROVIDE ADEQUATE PROVISIONS. THE CONTRACTOR SHALL PERFORM ALL COORDINATION WITH THE OWNER AND/OR LANDLORD AND UTILITY COMPANY.

14. SWITCH AND RECEPTACLE IDENTIFICATION

PROVIDE MACHINE-PRINTED, PRESSURE SENSITIVE, ABRASION RESISTANT LABEL TAPE ON FACE OF ALL DEVICE PLATES TO IDENTIFY THE PANELBOARD AND CIRCUIT NUMBER FROM WHICH EACH DEVICE IS SERVED.

ALL PANEL BOARDS IN WHICH WORK OCCURS PER THESE DOCUMENTS. SHALL BE PROVIDED WITH UPDATED-ALL PARELEDANCIS IN WITCH TOWN OCCUPS FOR TIESE DOUBLEN'S, STAIL BE PROVIDED WITCH DEVILED.

COMPUTER CEMERATED DIRECTORIES, GIVEN ONLY FOR CLARTY AND QUANTITY, CIRCUIT NUMBERS SHOWN IN THE
PLANS MAY NOT NECESSABILY REPRESENT ACTUAL CIRCUIT NUMBERS IN PANELBOARD. FROM FLUSH-MOUNTED
PANELBOARDS, STUB-OUT ONE 344 CONDUIT INTO THE CEILING CAUTY FOR EACH SET OF 3 SPARES ANDIOR SPACES
OR FRACTION THEREOF, REFER TO TRAIN STATION SCOPE PROJECT FOR ALL CIRCUITS WHICH ARE SPECIFICALLY

PORTUGED FOR THE PANEL BASE OF THE PROJECT OF THE PROJECT FOR ALL CIRCUITS WHICH ARE SPECIFICALLY

FOR THE PANEL STATE OF THE PANEL BASE OF THE PANEL STATE OF

UNLESS NOTED OTHERWISE, ALL WIRE AND CABLE SHALL BE 600-VOLT COPPER CONDUCTORS WITH TYPE "THANTHINF" INSULATION. MINIMUM WIRE SIZE SHALL BE #12 AWG FOR LIGHTING AND POWER CIRCUITS AND #14 AWG FOR CONTROL GOROLTUS, PROVIDE GROUNDING FOR CIRCUITS FERDING CORDUS LINESS SPECIFICALLY NOTED OTHERWISE IN THE PLANS, ALL CABLING SHALL BE (2) #12 AND (1) #12 G IN 3/4"C. (NO SHARED NEUTRALS).

17. CONDUIT/RACEWAY SYSTEMS

THE CONDUIT ROUTINGS INDICATED ARE ONLY DIAGRAMMATIC IN NATURE. FIELD CONDITIONS SHALL DICTATE THE CONTRACTOR'S EXACT CONDUIT ROUTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER THE NATIONAL ELECTRICAL CODE AND FOR COOPDINATION WITH OTHER DISCIPLINES. ALL EXPOSED RACEWAYS SHALL BE INSTALLED FOR PERFORDED CLARA TO WALLS OR STRUCTURAL MEMBERS, SUCH AS TO FOLLOW STRUCTURAL SURFACE CONTOURS AND NOT OBSTRUCT PASSAGEWAYS. MULTIPLE RACEWAYS SHALL BE RIUN TOGETHER, IN GROUPING ALL EXPOSED CONDUIT SHALL BE ROUTED PERPENDICULAR, PARALLEL AND TIGHT TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT SHALL BE COORDINATED WITH THE RACHITECTENIONIEER PRIOR TO INSTALLATION. EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL NO ADDITIONAL COST TO OWNER WILL BE ALLOWED DUE TO LACK OF COORDINATION. ALL CONDUIT SHALL BE LEFTEDICAL METALED TRIBANCEST SHALL BE ELECTRICAL METALLIC TUBING (EMT) AND MINIMUM SIZE SHALL BE 3/4" UNLESS NOTED OTHERWISE. CONNECTORS AND COUPLINGS SHALL BE INSULATED-THROAT COMPRESSION TYPE ONLY. RIGID GALVANIZED-STEEL CONNECTORS AND COUPLINGS SHALL BE INSULATED-THROAT COMPRESSION TYPE ONLY. RIGID GALVANIZED-STEEL (RGS) CONDUIT SHALL BE USED WHENE COTHER IN SIXFALLEN IN UNITDOOR AREAS OR WHERE OTHERWISE EXPOSED TO PHYSICAL HARM. EMERGENCY SYSTEMS SHALL BE RUIN IN SEPARATE RACEWAY/CONDUIT SYSTEM(S) A SEPARATE RICHARD EXPORTED ON THE DRAWNING. METAL BE PULLED WITH THE CRICUIT CONDUCTORS, WHETHER OR NOT INDICATED ON THE DRAWNINGS. METAL RACEWAY OR CABLE ARMOR/SHEATH SHALL NOT BE USED AS THE PRIMARY EQUIPMENT GROUNDING CONDUCTOR RACEWAY SYSTEMS SHALL BE MECHANICALLY AND ELECTRICALLY CONTINUOUS AND SHALL BE BEDIED AT ALL POINTS TO THE INSULATE DEQUIPMENT GROUNDING CONDUCTOR IN ACCORDANCE WITH THE APPLICABLE PROVISIONS IN ARTICLE 250 OF NATIONAL ELECTRICAL CODE. NOTE THAT METRA REQUIRES ALL CONDUIT RACEWAYS TO BE CONCELLED FROM VIEW, NO EXCEPTIONS. F APPROVED BY METRA, ENGINEER/ARCHITECT AND OWNER PRIOR TO COMMENCEMENT OF WORK.

18. EQUIPMENT

ALL MATERIALS AND EQUIPMENT PROVIDED IN THIS WORK SHALL BE NEW AND SHALL HAVE THE APPROPRIATE UL LISTING ANDIOR FM APPROVAL. UNLESS NOTED OTHERWISE, DISCONNECTISAFETY SWITCHES SHALL BE NON-FUSED HEAVY-DUTY 600-VOLT TYPE. INDOOR ENCLOSURES SHALL BE NEMA 1 AND OUTDOOR ENCLOSURES SHALL BE NEMA 3 R.

19. MISCELLANEOUS SUPPORTING MEMBERS

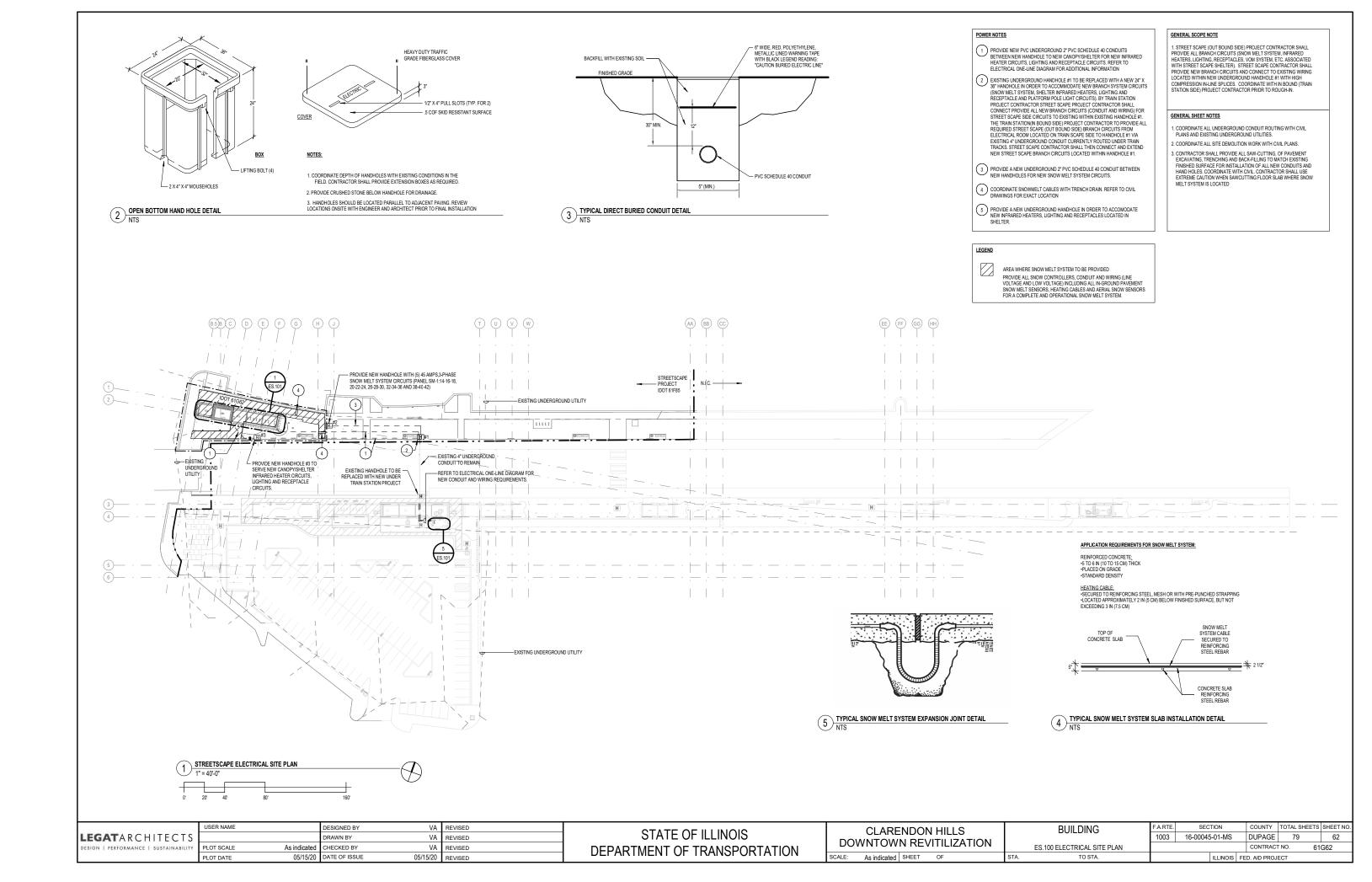
ALL ANGLES, CHANNELS, AND OTHER MISCELLANEOUS STEEL, BOLTS, THREADED RODS, ETC., REQUIRED TO SUPPORT LIGHT FIXTURES, LADDER TRAY OR OTHER ELECTRICAL EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. ALL THREADED RODS SHALL BE A MINIMUM OF 3/8" IN DIAMETER. ALL LIGHTING FIXTURES AT SUSPENDED CEILINGS SHALL BE PROPERLY SUPPORTED

20. ELECTRICAL AND TECHNOLOGY ALTERATION AND DEMOLITION:

- A. A COMPLETE AND ACCURATE DESCRIPTION OF ALL ELECTRICAL WORK WITHIN THE AFFECTED AREAS CANNOT BE ACCOMPLISHED THROUGH THE MEDIA OF DRAWINGS AND SPECIFICATIONS. IN EVERY CASE WHERE SUCH EXISTING ELECTRICAL WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, PERFORM WHATEVER WORK AND PROVIDE WHATEVER WORKEN AND PROVIDE WHATEVER MATERIALS ARE REQUIRED IN ORDER TO REMOVE, RECOUTE, RELOCATE OR IN OTHER WAYS ALTER THAT EXISTING INTERIOR AND/OR SITE ELECTRICAL AND TECHNOLOGY WORK. SUCH PERFORMANCE AS GENERALLY OUTLINED HEREIN AND AS IS FOUND NECESSARY UNDER FIELD CONDITIONS SHALL BE CONSIDERED IS INCLUDED UNDER THE CONTRACT.
- B. EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, INCLUDING INTERIOR AND/OR SITE LIGHTING FIXTURES, SWITCHES, RECEPTACLES, SIGNAL LIGHTS, SPEAKERS, INTERCOM EQUIPMENT, EMERGENCY CALL PHONES, CONTROLS, CONDUIT OUTLETS, FITTINGS, WIRE, CABLE AND OTHER DEVICES WHICH AREA REMOVED AS A RESULT OF THE ALTERATIONS SHALL BE
- C. ALL ITEMS OF EXISTING FOLIPMENT, MATERIALS, FIXTURES, ETC. SHALL REMAIN THE PROPERTY OF THE BUILDING OWNER LL REUSABLE ITEMS SALVAGED DURING DEMOLITION SHALL BE RETAINED AND TURNED OVER TO THE BUILDING OWNER
- D. LEGALLY DISPOSE ALL ITEMS REJECTED OR UNWANTED BY THE BUILDING OWNER. EXISTING ELECTRICAL MATERIALS AND EQUIPMENT, WITH THE EXCEPTION OF WIRE AND CABLE, AS GENERALLY OUTLINED IN THE PREVIOUS PARAGRAPH, SHALL BE REUSED AS COMPLETELY AS IS FOUND PRACTICAL. EXAMINE THE CONDITION OF SUCH MATERIALS AND EQUIPMENT AND MAKE A PRIOR DETERMINATION OF WHETHER IT IS SUITABLE FOR REUSE, PRESENT HIDDINGS PERIODICALLY TO THE ARCHITECT WHO IN TURN WILL MAKE THE FINAL DECISION REGARDING REUSABILITY, ALL WIRE AND CABLE SHALL BE NEW.
- E. THIS CONTRACTOR SHALL REPAIR ALL DAMAGES TO EXISTING CONSTRUCTION DUE TO DEMOLITION, ALTERATIONS, OPERATION
- F. THIS CONTRACTOR SHALL PERFORM ALL INTERIOR AND/OR SITE CUTTING AND PATCHING FOR ELECTRICAL AND TECHNOLOGY WORK

GENERAL NOTE: NOT ALL SYMBOLS, NOTES AND ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT

ı		USER NAME	DESIGNED BY VA	REVISED	OTATE OF ILLINOIO	CLARENDON HILLS	BUILDING	F.A.RTE.	SECTION	COUNTY	TOTAL SHEETS	3 SHEET NO.
- 1	LEGAT ARCHITECTS		DRAWN BY VA	REVISED	STATE OF ILLINOIS	DOWNTOWN REVITILIZATION	ES.000 ELECTRICAL SYMBOLS, NOTES	1003	16-00045-01-MS	DUPAGE	79	61
- 1	DESIGN PERFORMANCE SUSTAINABILITY	PLOT SCALE 12" = 1'-0"	CHECKED BY VA	REVISED	DEPARTMENT OF TRANSPORTATION	DOWNTOWN REVITILIZATION	& ABBREVIATIONS			CONTRACT	NO. 6	61G62
- 1		PLOT DATE 05/15/20	DATE OF ISSUE 05/15/20	REVISED	DEI ARTIVIERT OF TRANSFORMATION	SCALE: 12" = 1'-0" SHEET OF	STA. TO STA.		ILLINOIS F	FED. AID PROJE	CT	,



POWER NOTES

PROVIDE GREY RECEPTACLES WITH BRUSHED STAINLESS STEEL COVERPLATE.

2 PROVIDE GREY RECEPTACLES WITH USB CHARGING AND BRUSHED STAINLESS STEEL COVERPLATE. RECEPTACLES SHALL BE CENTERED UNDER FRONT FACE OF BENCH UNLESS OTHERWISE NOTED. RECEPTACLES MUST BE GROWITH WP COVERS IF EXPOSED TO THE LELIMENTS PER CODE. REFER TO ARCHITECTURAL DRAWNINGS FOR EXACT LOCATION AND MOUNTING HEIGHT. CONTRACTOR SHALL PRESST L'EMBED RECEPTACLE BACKOW WITHIN CONCRETE PRIOR TO ROUGH-IN FOR A FULLY RECESSED RECEPTACLE.

3 PROVIDE JUNCTION BOX FOR HARDWIRED 120V, 20A, SINGLE PHASE POWER CONNECTION TO ACCESS CONTROL PANEL. PROVIDE 2 #12 & 1 #12 GRD., 3/4* CONDUIT FROM PANEL LRP-1, CIRUCIT #41.

USER NAME

PLOT SCALE

LEGATARCHITECTS

DESIGN | PERFORMANCE | SUSTAINABILITY

LIGHTING CONTROL NOTES

 SHELTER LIGHTING FIXTURES TYPE "F2" SHALL BE CONTROLLED VIA LOCAL CEILING MOUNTED OCCUPANCY SENSORS.

2. ALL PLATFORM LIGHTING, FOUNDATIONS, CONDUIT, CABLING & ATTACHED VOM DEVICES (& ASSOCIATED PACEWAYSICABLING) ARE EINER PROVIDED & INSTALLED AS PART OF TRAIN STATION PROJECT EXCEPT WHERE SPECIFICALLY NOTED. ALL SITE POLE LIGHTING TO BE CONTROLLED FROM PHOTOCELL VIA LIGHTING CONTACTOR RELAY PANEL

3. ALL CONDUITS SHALL BE CONCEALED. EXPOSED CONDUITS THAT ARE VISIBLE SHALL NOT BE ALLOWED.

VA REVISED

05/15/20

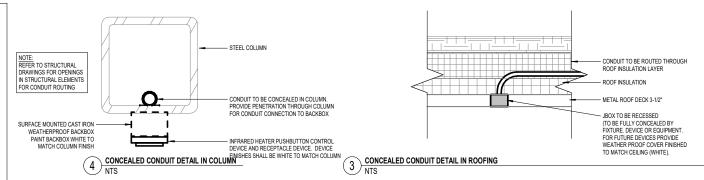
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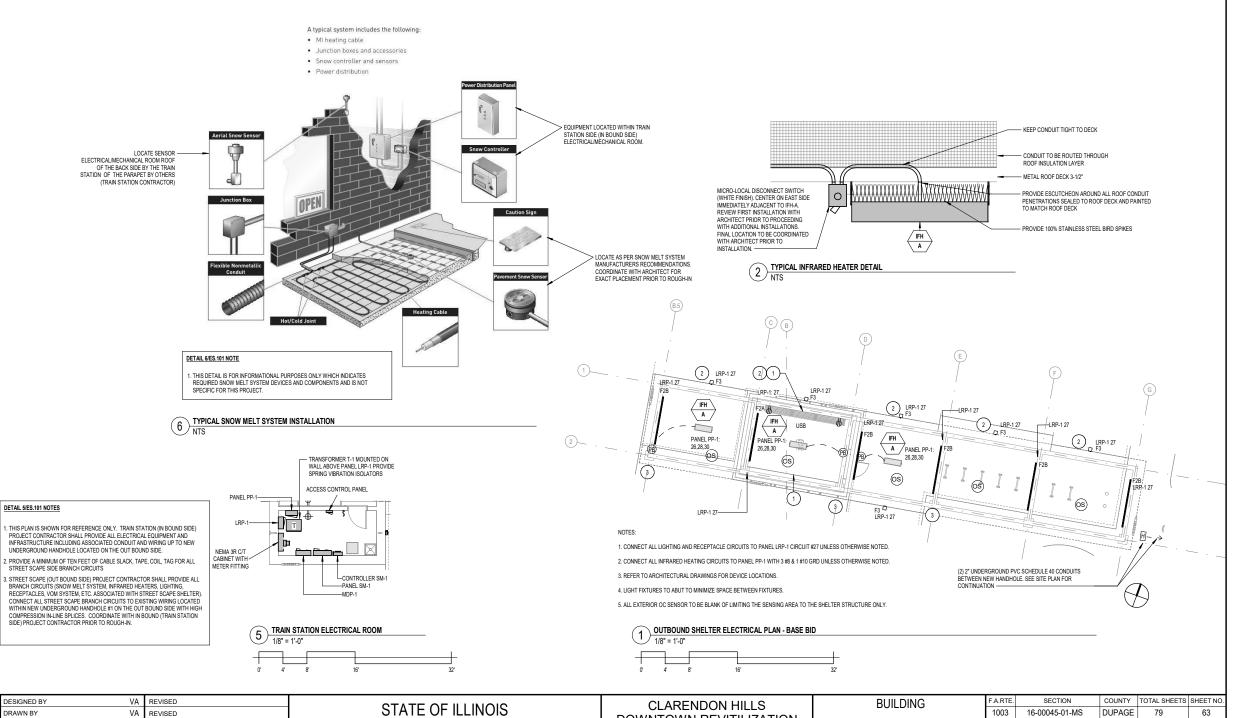
DATE OF ISSUE

As indicated

GENERAL NOTES:

- ROUTE LOW VOLTAGE CABLING BACK TO MECHANICAL ROOM UNLESS NOTED OTHERWISE.
- ALL CONDUITS SHALL BE ROUTED ABOVE STRUCTURE AND CONCEALED IN VERTICAL COLUMNS. COORDINATE ALL CONDUIT ROUTING WITH ARCHITECT PRIOR TO ROUGH-IN.
- 3. METRA REQUIRES ALL CONDUIT TO BE CONCEALED FROM VIEW.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR DEVICE LOCATIONS REVIEW DEVICE LAYOUT WITH ARCHITECT PRIOR TO ROUGH-IN.
- 5. ALL ELECTRICAL RECEPTACLES LOCATED IN PUBLIC AREAS OF STATIONS AND WARNING SHELTERS SHALL HAVE HINGED COVERS PER METRA STANDARDS. PLEXIGLASS OR OTHER PLASTIC COVERS SHALL NOT BE ACCEPTED.
- ALL EXTERIOR ELECTRICAL GFCI RECEPTACLES SHALL HAVE LOCKABLE HINGED COVERS. PLEXIGLASS OR OTHER PLASTIC COVERS SHALL NOT BE ACCEPTED.
- 7. CONDUIT TO BE FASTENED INTO TOP FLUTE OF ROOF DECK ONLY SO SCREW IS CONCEALED FROM VIEW





DEPARTMENT OF TRANSPORTATION

DOWNTOWN REVITILIZATION

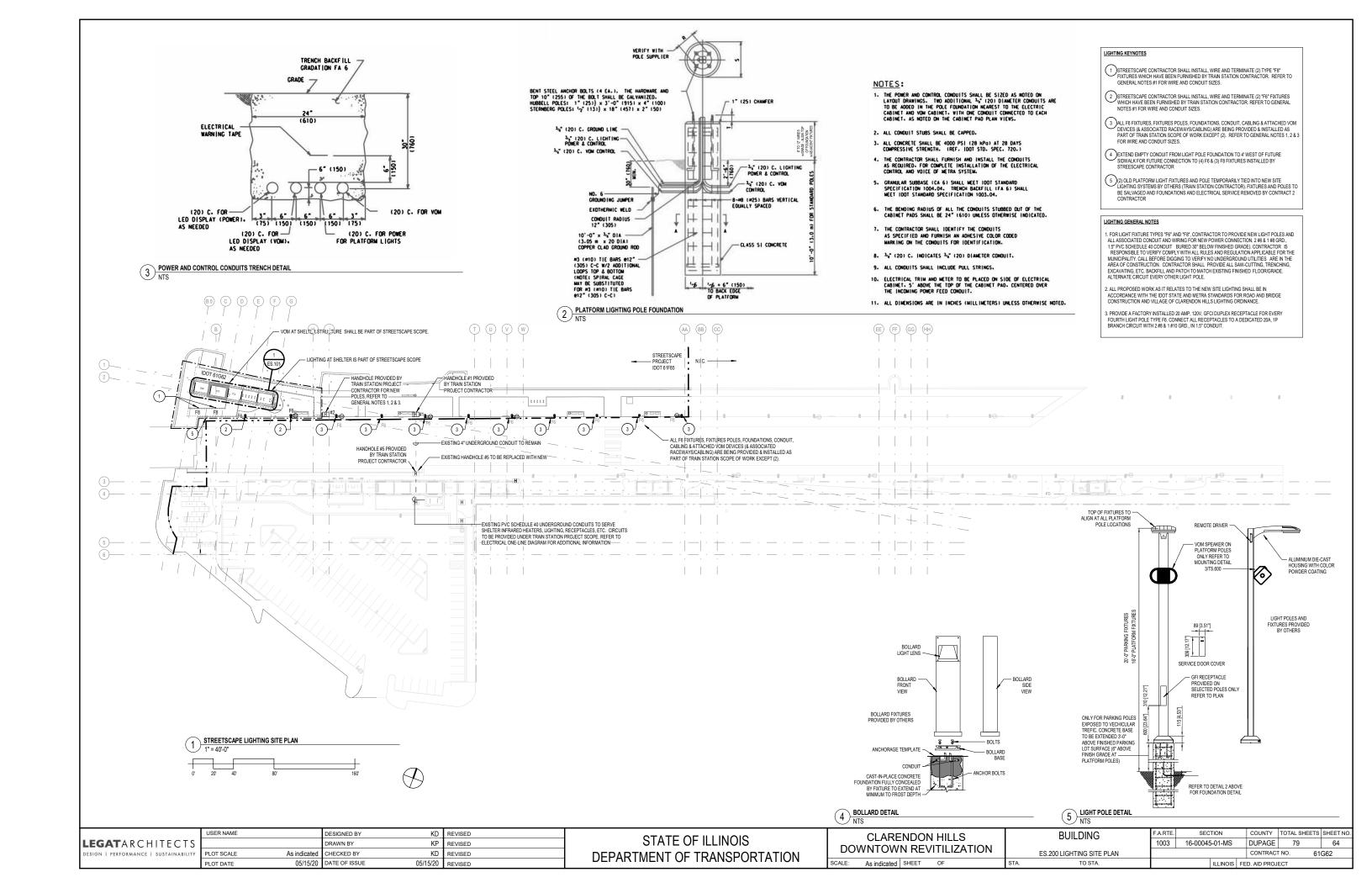
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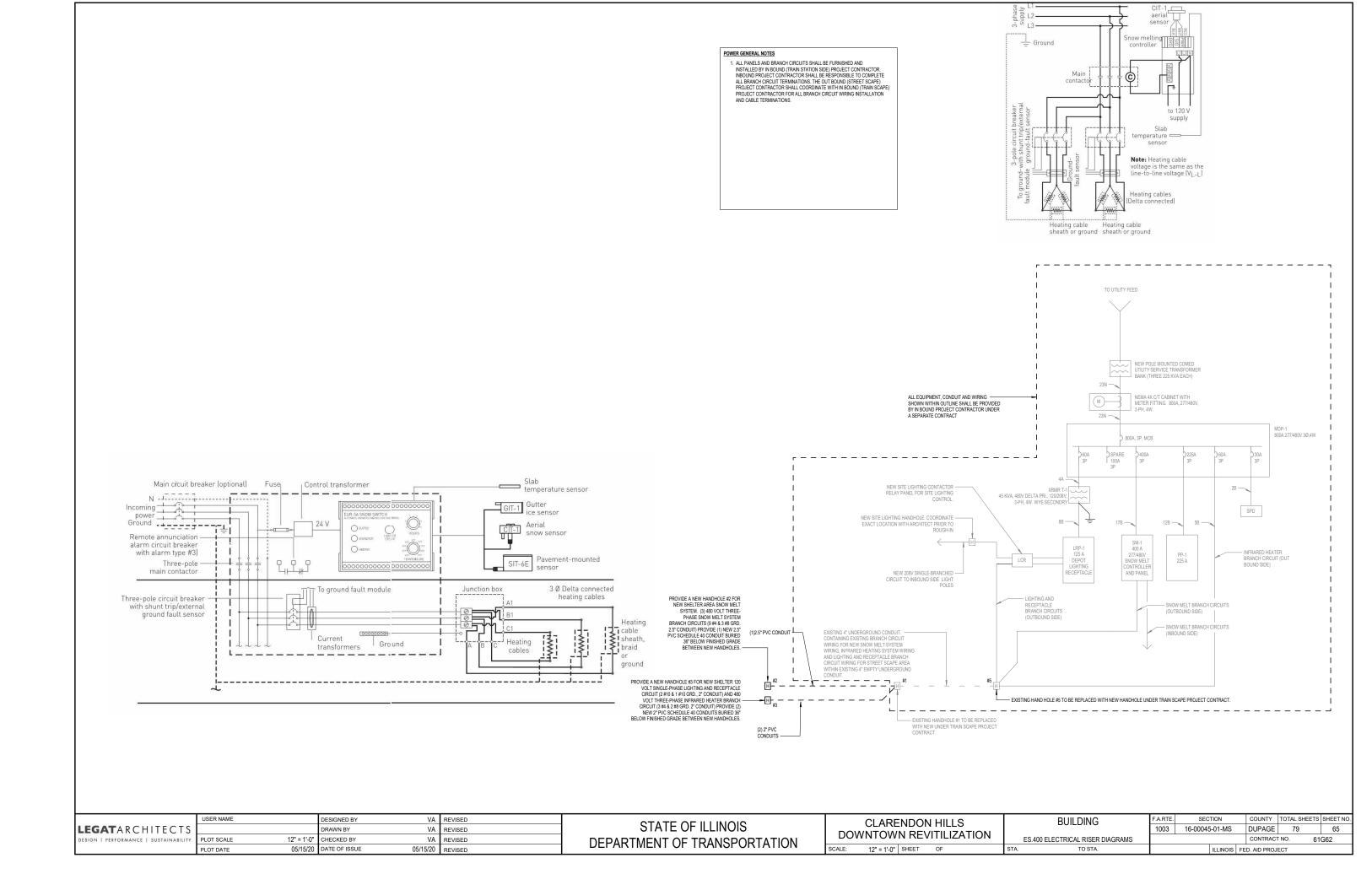
ES.101 FLOOR PLANS - ELECTRICAL

CONTRACT NO.

ILLINOIS FED. AID PROJECT

61G62





1 2 3 3 4 4 4 5 5 5 5 5 5 5																				
TITING LOCATION - TAG - QUANTITY	STEPS	1	2	3	4A 4B	5	6 & 7		8 & 9			10				11				12
Fig. Incorporation Fig. Incorporation Fig. Fig		EQUIPMENT	EQUIDMENT UNIT NAME	EQUIPMENT POWER CHARACTERISTICS FE	EED FEED	OCPD: SW-CB FRAME:FR	FDR	MOTOR-LISTED EQP - CO	ONTROLLER-STARTER TYPES	& LOCATIONS	LOCAL D	ISCONNECT SWITC	Н		MOTOR-LISTE	D EQUIP CONN	& OEM REQ	QUIREMENTS		
No. NAME TAG No. NAME TAG NO. NAME TAG AREA AREA# V Ø N G PIN W HP MCA FLA KW SYS PANEL SWFR FUTR CBFR CBTR P TAG PB FB IB ROOM SIZE TYPE ENC CPT DS-SW OCPD P NOTE PB FB IB SIZE ENC P NOTE PB FB IB REC LOC NEMA GFI REC NO. CPC HWC FWC NOTE 1 - SPACE IFH A INFRARED HEATER IFH-A SPACE 480 3 1 1 1 4 5 - 15.2 - 12.6 NML PP-1 NA NA 30 15 3 2B EC NA	ITEM	LOCATION - TAG - QUANTITY	EQUIFMENT ONLY NAME	& LOAD SPECIFICATIONS P	WR FROM	FUSE-CB TRIP:TR	BRNCH	MTR CONTROLLE	R - SWITCH RATING - OCPD TI	RIP SIZE	FOR LOCAL	FOR LOCAL LOCK-OUT & TAG-OUT			LUG REC OR	FLEX WHIP FOR	R MOTOR OF	R SINGLE POI	IT CONN	REMARKS
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	1																IT			
STEP 4 CONFIRM IN THE FIELD PNLBD-SWBD RATINGS WITH MECH'S DEM PRIOR TO STEP 8 CONFIRM IN THE FIELD CONTACTOR-STARTER-VFC-PRIMS-DS SW EQUIP GROUND (EGC) FROM DISC SW SWITCH TO MOTOR CPT CONTROL POWER TRANSFORMER IB INSTALLED BY KC KITCHEN LOC LOCKING		SEE SCHDLE DWGS. FOR PANELBOARI	FEEDER-BRANCH CIRCUIT NUMBERS.	STEP 7 SEE FEEDER-BRANCH CIRCUIT SCHEDULE FOR	R TAG-WIRE SIZE.	STEP 11 PRO	OVIDE CONN. TO MOTOR-LIS	STED EQUIP PROVIDE A Cu				TR .	FB FURNISHED I							
	STEP 4	CONFIRM IN THE FIELD PNLBD-SWBD R	ATINGS WITH MECH'S OEM PRIOR TO	STEP 8 CONFIRM IN THE FIELD CONTACTOR-STARTER	R-VFC-PRMS-DS SW					CPT CONTROL POWER TRANSFORMER										
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RMUC REMOTE MOUNTED UNIT CONTROLLER FOR FEEDER CIRCUIT PC PLUMBING OCPD OVERCURRENT PROTECT DEVICE OEM ORIGINAL EQP MANUFACTURER										RMUC REMOTE MOUNT	FED UNIT CONTROLLER		FDR FEEDER CIR	UIT	Р	C PLUMBING				
NOTES:																				
				2 PROVIDE RACKING FOR VARIABLE FEQUENCY CONTROLL	LER "VFC"	3 DIS	SC SW SHALL BE IN SIGHT OF	F MOTOR-EQP & SHALL NOT EXCEED	D MAX DIST OF	4 CONFIRM MOTOR ROTATION-OPERATION 5.				CONNECT SWI	ITCH SHALL BE					
PROVIDE THERMAL OVERLOADS PER 0EM-FIELD CALIBRATE OVERLOADS PER 0EM-FIELD VERIFICATION RESULTS SFT FROM MOTOR-EQUIP MAX HEIGHT OF DISC SW SW HANDLE SHALL NOT EXCEED 6'-3" WITH 0EM REP PRIOR TO ENERGIZING MOTOR BE RATED FOR 600V, 3-PHASED TOGGLE			ADS PER OEM-FIELD	CALIBRATE OVERLOADS PER OEM-FIELD VERIFICATION F	RESULTS	5FT	T FROM MOTOR-EQUIP MAX H	HEIGHT OF DISC SW SW HANDLE SH	IALL NOT EXCEED 6'-3"	WITH OEM F	REP PRIOR TO ENERGIZING	MOTOR	BE RATED FOR 600V, 3-PHASED TOGGLE							
PROVIDE TWO SETS FORM "C" AUX CONTACTS WITH PROVIDE FOUR SETS FORM "C" CONTACTS WITH VFC PROVIDE SIX POLE DISC SW FOR TWO SPEED, ONE-TWO WINDING MOTORS EQUIP PROVIDE GROUNDING-BONDING PER TYPE NEMA 3R RATED (BRYANT #33303D)			C" AUX CONTACTS WITH	PROVIDE FOUR SETS FORM "C" CONTACTS WITH VFC		PRO	OVIDE SIX POLE DISC SW FO	OR TWO SPEED, ONE-TWO WINDING	MOTORS				TYPE NEM	TYPE NEMA 3R RATED (BRYANT #30303D)						
PROVIDE 1200ac CONTROL COILS FOR (FVNR, FVR, SSP1W, & PROVIDE OEM START-UP & COMMISSIONING PRIOR TO PUNCHLIST VERIFY WITH OEM IF MAX FUSE SIZE IS MARKED ON NAME PLATE IF SO THEN EC SHALL SPECS EQP FLEX SHALL NOT EXCEED 72" MAX			COILS FOR (FVNR, FVR, 2SP1W, &	PROVIDE OEM START-UP & COMMISSIONING PRIOR TO PI	UNCHLIST	VEF	RIFY WITH OEM IF MAX FUSE	E SIZE IS MARKED ON NAME PLATE I	F SO THEN EC SHALL	SPECS EQF	P FLEX SHALL NOT EXCEED	72" MAX								
PROVIDE 24Vac CONTROL COIL FOR POWER RELAYS-MANUAL STRTE "PRINS" PROVIDE WRITTEN VFC FIELD PROGRAMMED SETTINGS PROVIDE FUSE DS SWITCH WITH TO FUSE TRIP SIZE TO 150% OF THE FLA OF MOTOR - EQP LENGTH CONFIRM CPC NEMA CONN WITH OEM		PROVIDE 24Vac CONTROL C	OIL FOR POWER RELAYS-MANUAL STRTR "PRMS"	PROVIDE WRITTEN VFC FIELD PROGRAMMED SETTINGS		PRO	OVIDE FUSE DS SWITCH WITI	TH TD FUSE TRIP SIZE TO 150% OF T	HE FLA OF MOTOR - EQP	LENGTH CO	ONFIRM CPC NEMA CONN W	ITH OEM								

	INFRARED HEATER (ELECTRIC)																	
TAG MOUNTING ON/OFF SWITCH							UNIT DATA	ELECTRICAL DATA										
			SURFACE		SEMI-		UNIT			WEIGHT								
ABBF	t. #	LOCATION	MOUNTED	RECESSED	RECESSED	REMOTE	MOUNTED	BTUH	DIMESIONS (L x W x H)	(LBS)	AMPS	KW	VOLTS	PH	HZ	MANUFACTURER	MODEL	REMARKS
IFH	Α	WAITING AS101	Yes	No	No	Yes		24909	46"15"10.5"	32	15.21 7.3 480 3		60	KING	RH-46S2-G36R	1,2,3,4,5,6,7		

- CONTROLLED BY LOW VOLTAGE PUSH BUTTON TIMER.
 REFER TO PLAN FOR LOCATIONS 2 TIMER RELAY. ADJUST TIME AS DIRECTED BY OWNER
- 3 MICRO DISCONNET SWITCH 4 PUSH BUTTON MFR/MODEL: REESE/2.25" MUSHROOM PLUNGER WEATHERPROOF & w/SHIELD

- 7 100% STAINLESS STEEL BIRD SPIKES
- 5 WIRE GUARD PROVIDED BY MANUFACTURER 6 STAINLESS STEEL FINISH

Ι.															
								LUM	INAIRE SCHEDULE						
	FIXTURE TAG	MANUFACTURER	CATALOG#	LAMP TYPE	сст	TOTAL LM OUTPUT DELIVERED	CRI	TOTAL WATTS	VOLTAGE	CONTROL	MOUNTING	FINISH	LOCATION	DESCRIPTION	NOTES
	F2A	ALIGHT	D3 8° C 30 U HE F W D Q MOD + 125% LUMENS	LED	3000K	952LM/FT	80	12.5W/FT	UNV	0-10V DIM	SURFACE	WHITE	SURFACE MOUNTED	CONTINUES UNDER ROOF BETWEEN STRUCTURES LINEAR VANDAL RESISTANCES DIRECT	1,2,3
	F2B	ALIGHT	D3 8' LS 30 U HE F W D Q	LED	3000K	408LM/FT	80	4.5W/FT	UNV	0-10V DIM				CONTINUES LINDER ROOF BETWEEN STRUCTURES LINEAR VANDAL RESISTANCES DIRECT	
	F2C	ALIGHT	D3 8' LH 30 U HE F W D Q	LED	3000K	762LM/FT	80	9.5W/FT	UNV	0-10V DIM	SURFACE	WHITE SURFACE MOUNTED		ILLUMINATION FIXTURE.	1,2,3,20
	F3	BEGA	22 433 K3	LED	3000K	2319	80	32W	UNV	0-10V DIM	SURFACE	CUSTOM TO MATCH METAL PANELS	BUILDING MOUNT	MOUNTED FOR DIRECT LIGHT	1,3
	F6	LITHONIA LIGHTING	DSX0 LED P2 30K VLS VC MVOLT RPA DNAXD / RSA 15'-6" 5E DM19AS DNA. PROVIDED BY TRAIN STATION CONTRACTOR	LED	3000K	7,974	80	83W	UNV	0-10V DIM	6" BASE AS PER DETAILS	NATURAL ALUMINUM	PLATFORM	NEW 15'-6" ROUND PLATFORM POLE FIXTURES 16'-0" OVERALL	3
	F8	BEGA	99554 K3 SLV PROVIDED BY TRAIN STATION CONTRACTOR	LED	3000K	444	80	6.3W	UNV	0-10V DIM	LANDSCAPE	SILVER	ALONG WALKWAY AT MAIN TRAIN STATION STRUCTURE	BOLLARD FIXTURE TO PROVIDE ILLUMINATION ALONG THE WALKWAY AT MAIN BUILDING STRUCTURE	3

PS CALCAPTER EXACT FIXTURE LENGTHS AND MOUNTING TYPE WITH ARCHITECTURAL DRAWINGS. 2. EMERGENCY OPTION WITH THE INTEGRAL BATTERY MUST BE PROVIDED FOR FIXTURES INSTALLED WITHIN ENCLOSED SHELTERS. 3. CONTRACTOR TO VERFY LIGHTING CONTROL COMPATABLITY WITH FEXITIRES TYPE AND FATURES REQUIREMENTS.

GENERAL SCHEDULE NOTES:

- ELECTRICAL CONTRACTOR SHALL PROVIDE SUBMITTAL ON FILL LIGHTING FIXTURE PURCHASE FOR ARCHTECTS APPROVAL PRIOR TO ORDER.
 SUBMIT FOR SET OF ACALTAGO CUTS TO ARCHTECTERIONEER FOR REVIEW AND APPROVAL PRIOR TO ORDERING LIGHTING FIXTURES.
 FIXTURES SHALL HAVE APPROPRIATE UL LABEL, DAMP, OR WET AS REQUIRED BY LOCAL CODES.

- 3 WALLS DIRECTLY ILLUMINATED SHALL BE INSTALLED AND FINISHED IN A MANNER TO ELIMINATE SHADOWS OR BLEMISHES (ILE HAND DRY WALL VERTICALLY).

 4 THE ARCHITECT AND ENGINEER SHALL APPROVE FIXTURE SUBSTITUTIONS PRIOR TO BID. CONTRACTOR SHALL SUPPLY A SAMPLE AND/OR PHOTOMETRIC DATA IF REQUESTED. IF SUBSTITUTIONS IS REJECTED, CONTRACTOR SHALL HORNOUS SPECIFICATION.
- 5 FIXTURES SHALL INCLUDE ACCESSORIES FOR INSTALLATION ACCORDING TO LOCAL AND NATIONAL CODES.
- 6 PRIOR TO ORDERING LIGHTING EQUIPMENT, THE CONTRACTOR SHALL VERIFY LOCATIONS AND RECESS DEPTHS. 7 LAMPS SHALL BE PROVIDED AND INSTALLED ACCORDING TO THE ABOVE FIXTURE SCHEDULE.
- 8 VERIFY EXACT LOCATION AND MOUNTING HEIGHTS OF ALL LIGHTING FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN. 9 ALL FIXTURE FINISHES TO BE SUBMITTED TO ARCHITECT FOR FINAL APPROVAL.

- 11 MANUFACTURER'S CATALOG NUMBERS ARE INTENTIONALLY INCOMPLETE (MARKED WITH 'XC'). VERIFY AND COORDINATE REQUIRED TRIM KITS, MOUNTING BRACKETS, LAMPS, FINISHES, ETC. WITH CONTRACT DOCUMENTS AND SPECIFICATIONS, AND REFER TO ARCHITECTURAL DETAILS.
- 12 THE FINAL FIXTURE HOUSING AND REFLECTOR FINISH SHALL BE SELECTED BY ARCHITECT.
- 14 ALL FIXTURES SHALL BE PROVIDED WITH VANDAL RESISTANT HARDWARE.
- 15 ADJUSTABLE AND DIRECTIONAL LUMINAIRES SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS AND AIMED TO OBTAIN MAXIMUM UNIFORM COVERAGE. CONTRACTOR TO AIM LIGHTING FIXTURES PER SPECIFICATIONS AND TO PROVIDE THE FINAL LIGHTING CALCULATIONS AND LIGHT MEASUREMENTS.
- 16 FOR FIXTURES WIREMOTE DRIVERS, VERIFY MANUFACTURER'S RECOMMENDATIONS FOR MOUNTING DISTANCE AND TO PROVIDE ADEQUATE NUMBER OF DRIVERS. PROVIDE INTERCONNECTING WIRING FROM DRIVER TO FIXTURES PER MANUFACTURER'S REQUIREMENTS. MOUNT THE DRIVERS IN A CONCLEALER, READILY ACCESSIBLE AREA WITHIN THE MANUFACTURER'S RECOMMENDED REMOTE DISTANCE, AND LOCATION TYPE.
- 17 PROVIDE ALL NECESSARY ACCESSORIES FOR FIXTURES AND SENSORS IN ORDER TO ENSURE A COMPLETE AND PROPER OPERATION. CONTRACTOR TO ENSURE COMPONENTS COMAPTIBILITY PRIOR TO ORDERING.
- 18 CONTRACTOR SHALL PROVIDE FULL PHOTOMETRIC DRAWINGS FOR OWNER'S, ARCHITECT'S AND ENGINEER'S REVIEW AND APPROVAL WITH LIGHTING FIXTURE PRODUCT DATA AND PERFORMANCE CUT SHEETS PRIOR TO PROCEEDING
- 19 F2B SHOULD BE DIMMED IN THE FIELD TO HALF OUTPUT. FOR OPEN CANOPY LOCATIONS

					THREE PHASE (Ø) AND SIN	GLE PHASE (Ø	Ø) POWER	FEEDERS - BRANCH CIRCUITS - SERVICE ENT	RANCE SCHE	DULE UP1	TO 3,000A				
	T.	ABLE A: FEEDER-BRANCH CIRCUITS 3Ø 3W			TABLE B: FEEDER-BRANCH CIRCUITS 3Ø			TABLE C: FEEDER-BRANCH CIRCUITS 1Ø 2V	V		TABLE D: FEEDER-BRANCH CIRCUITS 1Ø 3	N		TABLE N: SERVICE ENTRA	ANCE
	N	GC "NEUTRAL" AND WITH "GROUND" EGC			4W WITH GC "NEUTRAL" & "GROUND" EGC			NO GC "NEUTRAL" AND WITH GRD EGC			WITH GC "NEUTRAL" AND WITH GRD EGC			3Ø 4W WITH GC "NEUTF	AL"
CKT	PWR	STR Cu THWN-2 OR	COND	PWR	STR Cu THWN-2 OR	COND	PWR	STR Cu THWN-2 OR	COND	PWR	STR Cu THWN-2 OR	COND	PWR	STR Cu XHHW-2	COND
AMPS	TAG	XHHW-2 AWG - Kcmil	SIZE	TAG	XHHW-2 AWG - Kcmil	SIZE	TAG	XHHW-2 AWG - Kcmil	SIZE	TAG	XHHW-2 AWG - Kcmil	SIZE	TAG	AWG - Kcmil	SIZE
20	1A	3 #12 & 1 #12 EGC	3/4"	1B	4 #12 & 1 #12 EGC	3/4"	1C	2 #12 & 1 #12 EGC	3/4"	1D	3 #12 & 1 #12 EGC	3/4"	1N	NA	NA
30	2A	3 #10 & 1 #10 EGC	3/4"	2B	4 #10 & 1#10 EGC	3/4"	2C	2 #10 & 1 #10 EGC	3/4"	2D	3 #10 & 1#10 EGC	3/4"	2N	NA	NA
40	3A	3 #8 & 1 #8 EGC	3/4"	3B	4 #8 & 1 #8 EGC	3/4"	3C	2 #8 & 1 #8 EGC	3/4"	3D	3 #8 & 1 #8 EGC	3/4"	3N	NA	NA
55	4A	3 #6 & 1 #8 EGC	3/4"	4B	4 #6 & 1 #8 EGC	1"	4C	2 #6 & 1 #8 EGC	3/4"	4D	3 #6 & 1 #8 EGC	1"	4N	NA	NA
70	5A	3 #4 & 1 #8 EGC	1"	5B	4 #4 & 1 #8 EGC	1.5"	5C	2 #4 & 1 #8 EGC	1"	5D	3 #4 & 1 #8 EGC	1"	5N	NA	NA
85	6A	3 #3 & 1 #8 EGC	1"	6B	4 #3 & 1 #8 EGC	1.5"	6C	2 #3 & 1 #8 EGC	1"	6D	3 #3 & 1 #8 EGC	1.5"	6N	4 #3	1.5"
95	7A	3 #2 & 1 #6 EGC	1"	7B	4 #2 & 1 #8 EGC	1.5"	7C	2 #2 & 1 #6 EGC	1.5"	7D	3 #2 & 1 #6 EGC	1.5"	7N	4 #2	1.5"
130	8A	3 #1 & 1 #6 EGC	1.5"	8B	4 #1 & 1 #6 EGC	1.5"	8C	2 #1 & 1 #6 EGC	1.5"	8D	3 #1 & 1 #6 EGC	1.5"	8N	4#1	1.5"
150	9A	3 #1/O & 1 #6 EGC	1.5"	9B	4 #1/O & 1 #6 EGC	2"	9C	2 #1/O & 1 #6 EGC	1.5"	9D	3 #1/O & 1 #6 EGC	1.5"	9N	4 #1/O	2*
175	10A	3 #2/O & 1 #6 EGC	1.5"	10B	4 #2/O & 1 #6 EGC	2"	10C	2 #2/O & 1 #6 EGC	1.5"	10D	3 #2/O & 1 #6 EGC	2"	10N	4 #2/O	2*
200	11A	3 #3/O & 1 #6 EGC	1.5"	11B	4 #3/O & 1 #6 EGC	2"	11C	#2/O & 1 #6 EGC	1.5"	11D	3 #3/O & 1 #6 EGC	2"	11N	4 #3/O	2*
230	12A	3 #4/O & 1 #4 EGC	2"	12B	4 #4/O & 1 #4 EGC	2.5"	12C	2 #4/O & 1 #4 EGC	2"	12D	3 #4/O & 1 #4 EGC	2"	12N	4 #4/O	2.5"
255	13A	3 #250 & 1 #4 EGC	2.5"	13B	4 #250 & 1 #4 EGC	2.5"	13C	2 #250 & 1 #4 EGC	2"	13D	3 #250 & 1 #4 EGC	2.5"	13N	4 #250	2.5"
310	14A	3 #350 & 1 #4 EGC	3"	14B	4 #350 & 1 #4 EGC	3"	14C	2 #250 & 1 #4 EGC	2.5"	14D	3 #350 & 1 #4 EGC	2.5"	14N	4 #350	3"
335	15A	3 #400 & 1 #3 EGC	3"	15B	4 #400 & 1 #4 EGC	3"	15C	2 #400 & 1 #3 EGC	3"	15D	3 #400 & 1 #4 EGC	3"	15N	4 #400	3"
380	16A	3 #500 & 1 #3 EGC	3.5"	16B	4 #500 & 1 #3 EGC	4"	16C	2 #500 & 1 #3 EGC	3"	16D	3 #500 & 1 #3 EGC	3.5"	16N	4 #500	3.5"
420	17A	3 #600 & 1 #3 EGC	4"	17B	4 #600 & 1 #3 EGC	4"	17C	2 #600 & 1 #3 EGC	4"	17D	3 #600 & 1 #3 EGC	4"	17N	4 #600	4"
460	18A	2 Sets 3 #4/O & 1 #2 EGC	2" EA	18B	2 Sets 4 #4/O & 1 #2 EGC	2.5" EA	18C	2 Sets 2 #4/O & 1 #2 EGC	2" EA	18D	2 Sets 3 #4/O & 1 #2 EGC	2" EA	18N	2 Sets 4 #4/0	2.5" EA
510	19A	2 Sets 3 #250 & 1 #2 EGC	2.5" EA	19B	2 Sets 4 #250 & 1 #2 EGC	2.5" EA	19C	2 Sets 2 #250 & 1 #2 EGC	2" EA	19D	2 Sets 3 #250 & 1 #2 EGC	2.5" EA	19N	2 Sets 4 #250	2.5" EA
620	20A	2 Sets 3 #350 & 1 #1 EGC	3" EA	20B	2 Sets 4 #350 & 1 #1 EGC	3" EA	20C	2 Sets 2 #350 & 1 #1 EGC	2.5" EA	20D	2 Sets 3 #350 & 1 #1 EGC	2.5" EA	20N	2 Sets 4 #350	3" EA
670	21A	2 Sets 3 #400 & 1 #1/O EGC	3" EA	21B	2 Sets 4 #400 & 1 #1/O EGC	3" EA	21C	2 Sets 2 #400 & 1 #1/O EGC	3" EA	21D	2 Sets 3 #400 & 1 #1/O EGC	3" EA	21N	2 Sets 4 #400	3" EA
690	22A	3 Sets 3 #4/O & 1 #1/O EGC	3" EA	22B	3 Sets 4 #4/O & 1 #1/O EGC	2.5" EA	22C	3 Sets 2 #4/O & 1 #1/O EGC	2" EA	22D	3 Sets 3 #4/O & 1 #1/O EGC	2" EA	22N	3 Sets 4 #4/O	2.5" EA
840	23A	2 Sets 3 #600 & 1 #1/O EGC	3.5" EA	23B	2 Sets 4 #600 & 1 #1/O EGC	4" EA	23C	2 Sets 2 #600 & 1 #1/O EGC	3.5" EA	23D	2 Sets 3 #600 & 1 #1/O EGC	3.5" EA	23N	2 Sets 4 #600	4" EA

	USER NAME	DESIGNED BY VA	REVISED	07475 05 11 1 11 010	CLARENDON HILLS	BUILDING	F.A.RTE. SECTION	COUNTY	TOTAL SHEETS	3 SHEET NO.
LEGAT ARCHITECTS		DRAWN BY VA	REVISED	STATE OF ILLINOIS		ES.500 ELECTRICAL SCHEDULES -	1003 16-00045-01-MS	DUPAGE	79	66
DESIGN PERFORMANCE SUSTAINABILITY	PLOT SCALE 12" = 1'-	" CHECKED BY VA	REVISED	DEPARTMENT OF TRANSPORTATION	DOWNTOWN REVITILIZATION	POWERED EQUIPMENT		CONTRACT	NO. 61	61G62
	PLOT DATE 05/15/2	DATE OF ISSUE 05/15/20	REVISED	DEFAILTMENT OF TRANSPORTATION	SCALE: 12" = 1'-0" SHEET OF	STA. TO STA.	ILLINOIS	FED. AID PROJE	ECT	

LIGHTING CONTROL INTENT
LIGHTING CONTROL SYSTEM LOCATED IN THE METRA STATION ELECTRICAL ROOM IS INTENDED TO CONTROL INBOUND AND
OUTBOUND METRA TRAIN STATION INCLUDING PARKING LOT. LIGHTING CONTROL SYSTEM NEEDS TO BE ABLE TO CONTROL
WHITE AS WELL AS ROE PIXTURES. IF APPROVED SECURE INTERNOT CONNECTION MAY BE REQUIRED FOR SYSTEM SETUP,
ADJUSTMENTS AND MONITORING. STATION ROOF MOUNTED PHOTOCELL TO BE USE TO EVALUATE OUTDOOR LIGHT LEVEL

PLATFORM AND PARKING
PARKING LOT AND PLATFORM FIXTURES WILL BE TURNED ON/OFF BASED ON THE ASTRONOMICAL TIME CLOCK OR OWNER
PROVIDED SCHEDULE FOR SECURITY SOME FIXTURES MAY NEED TO STAY ON TO PROVIDE AVRAGE. 5°C AS REQUIRRED BY
METRA ADDITIONALLY IF THE OUTDOOR PHOTOCELL LIGHT LEVEL READING FALLS BELOW PRESET THRESHOLD, PARKING
LOT AND PLATFORM LIGHT MILL TURN ON. THIS WILL ENSURE MINIMUM REQUIRED LIGHT LEVEL AT THE PLATFORM AND
PARKING LOT DURING SEVERE WEATHER EVENT.

SHELTERS
LIGHTING WILL BE CONTROLLED BY A COMBINATION OF PHOTOCELL, MOTION SENSOR, AS WELL AS TIMECLOCK READING.

ALL SETTINGS ARE ADJUSTABLE REMOTELY VIA SECURE INTERNET CONNECTION. LIGHTING CONTROL PROVIDER, PROVIDE ALL NECESSARY PROGRAMING FREE OF LICENSING, ACCESSING, MAINTENANCE FEES CONTROLS CREDENTIAL AND TRAINING TO BE PROVIDED BY CONTROL MANUFACTURER TO OWNER DESIGNATED PERSONNEL.

	Lighting control criteria	
Station area	Avrage Illuminance (fc.)	Lighting Control Notes
Bus Loading / Unloading	2	3
Kiss - N - Ride	2	3
Parking Area	1	3
Pedestrian Ways	1	3
Waiting Area	20	2
Janitor Closet	20	4
Electrical mechanical Rm	20	4
Platform	Under conopy min 5fc	3
Platform	Edge min 2 fc	3

Lighting control notes 1. To operate continuously

- To operate during all normal hours of operation. Night security lighting shall maintain a minimum of 2 foot candles in depot and warming house waiting areas.
 To operate dusk to dawn with time clock and photo sensor override. Fifteen minutes after the last train leaves a station, time clock shall turnoff all lights except security lights and those necessary to maintain a minimum of .5 foot candles swerage at platform, petestrian walks, and parking areas.

4. Local switch

Design: Inbound (40	W/ft^2 min)	Area (concrete): 3761.0 ft² (480	V 3 Phase
Power requirement	40 W/ft²	Heating Cable Catalog Number	SUB22
Technology	Raychem MI	Cable Selection	FI
Total Area	3761.0 ft ²	Number of Cables	15
Number of expansion joints	0	Heating Cable Length	525 ft
Cable Selection Preference	No	Total Heater Length	7875 ft
		Calculated Cable Spacing	5.5 in
		Design Watt Density	46 W/ft ²
		Individual Cable Current	22.9 A
		Individual Three-Phase Circuit Current	39.7 A
		Number of Circuits	5

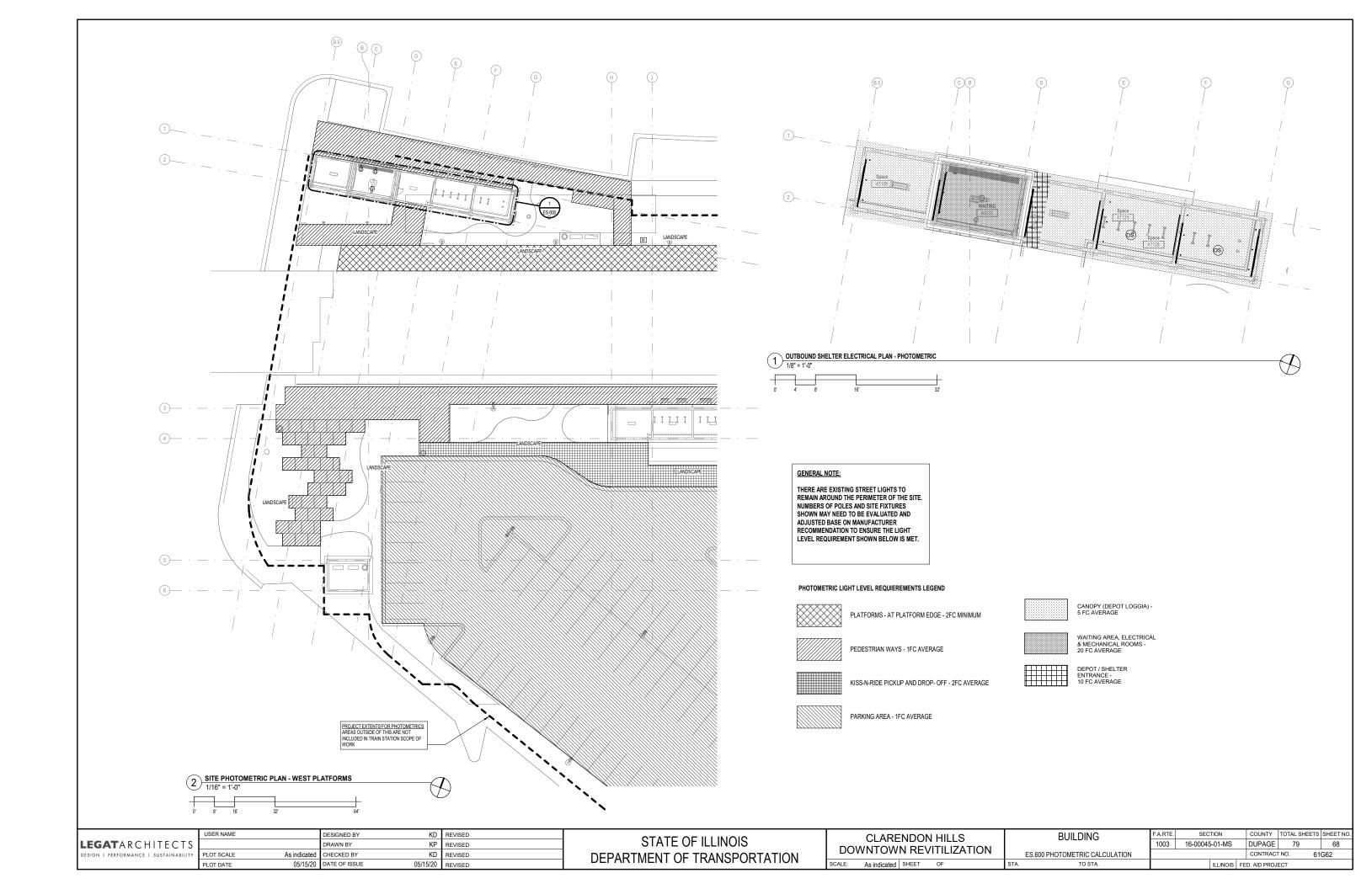
	LOCATION: MECHANICAL ROOM			VOLTS:	120/208			A.I.C. Rating:	22,000			NEUTRAL BUS: STANDARD, CO	OPPER
M	DUNTING TYPE: SURFACE			PHASES:				MAINS TYPE	MCB			GROUND BUS: STANDARD, CO	OPPER
	ENCLOSURE: NEMA 1			WIRES:				MAINS					
	FED FROM: MDP-1 VIA XFMR T-1		MC	B TYPE:	COPPER			MCB RATING:	125 A				
CCT NO.	Load Name	TRIP	POLES		A	E	3	С		POLES	TRIP	Load Name	CC
1	RECEPTACLE SITE POLES	20 A	1	1260 VA	1260 VA					1	20 A	RECEPTACLE SITE POLES	2
3	RECEPTACLE SOUTH WARMING	20 A	1			540 VA	50 VA	\		1	20 A	LIGHTING - INGROUND	4
5	RECEPTACLE MAIN BUILDING	20 A	1					1260 VA	180 VA	1	20 A	RECEPTACLE MAIN BUILDING	6
7	RECEPTACLE ELEC/MECH ROOM	20 A	1	180 VA	1180 VA					1	20 A	EF-1 ELEC/MECH ROOM	8
9	JUNCTION BOX MAIN BUILDING	20 A	1			500 VA	240 V	Α		1		L-1,2 MAIN BUILDING	10
11	F3 LIGHTING FIXTURES	20 A	1					384 VA	500 VA	1	20 A	ATM MACHINE	12
13	DWH-1	20 A	1	1500 VA									14
15	EXIT SIGN MAIN BUILDING	20 A	1			10 VA	215 V	Α		2	20 A	TRAIN STATION SIDE LIGHT POLE	16
17	ACCESS CONTROL PANELS	20 A	1					2400 VA	215 VA				18
19	TRAIN STATION SIDE LIGHT POLE	20 A	2	215 VA	2037 VA					1	20 A	MAIN BUILDING LIGHTS	20
21			-			215 VA	720 V	Α		2	20 A	STREET SCAPE SIDE LIGHT POLE	
23	LIGHTING BUS STOP SPACE 102	20 A	1					143 VA	720 VA		-		24
25	BOLLARD LIGHTING	20 A	1	400 VA	499 VA					1	20 A	SOUTH WARMING SHELTER 1	26
27	OUTBOUND SHELTER LIGHTING	20 A	1			1230 VA	855 V	Α		2	20 A	STREET SCAPE SIDE LIGHT POLE	28
29	FIRE ALARM SYSTEM CONTROL	20 A	1					500 VA	855 VA	-			30
31	SCHEDULE DISPLAY MONITOR	20 A	1	500 VA	500 VA					1	20 A	FUTURE MESSAGE BOARD	32
33	MOTORIZED LOUVER ACTUATOR	20 A	1			40 VA	40 VA	١		1	20 A	ACCESS CONTROL PANEL	34
35	SOUTH WARMING SHELTER 2	20 A	1					511 VA	4000 VA	2	50 A	VOICE OVER METRA CABINET	36
37	ILLUMINATED SIGNAGE	20 A	1	500 VA	4000 VA					-			38
39	LIGHTING - EXTERIOR	20 A	2			1360 VA	0 VA			2	20 A	PHOTOVOLTAIC SYSTEM DISC.SW.	40
41	-		-					1360 VA	0 VA	-			42
			TOTAL LOAD:	1403	1 VA	601	5 VA	13028	3 VA				
			TOTAL AMPS:	12	6 A	50	Α	118	Α				
OAD CLASSIFICATIONS:			CONN	ECTED LC	AD DE	EMAND FAC	CTOR	ESTIMATED				PANEL TOTALS	
	RICAL HEATING			0 VA		0.00%		0 VA				ECTED LOAD: 32596 VA	
GHTI			1	8558 VA		100.00%		8558 \	/A	-	TOTAL I	EST. DEMAND: 30200 VA	
ОТО	R/EQUIPT.			1180 VA		80.00%		944 V	Α			TOTAL CONN.: 90 A	
ECEF	TACLE			4320 VA		50.00%		2160 \	/A	-	ΓΩΤΔΙ Ι	EST. DEMAND: 84 A	

ITHIS PANELBOARD WILL BE FURNISHED, INSTALLED AND WIRED UNDER THE TRAIN STATION PROJECT. THE STREET SCAPE CONTRACTOR SHALL EXTEND ALL BRANCH CIRCUITS TO STREET SCAPE SITE POLE LIGHTING, SITE RECEPTACLES INTEGRAL WITHIN LIGHT POLES INCLUDING ALL SHELTER LIGHTING AND RECEPTACLES WITH THE EXEPTION OF THOSE NOTED ON PLAN.

	LOCATION: MECHANICAL ROOM			VOLTS:		Vye		A.I.C. Rating:					AL BUS: STANDARD, CC	
M	OUNTING TYPE: SURFACE			PHASES:				MAINS TYPE:				GROUN	ID BUS: STANDARD, CC	PPE
	ENCLOSURE: NEMA 1			WIRES:				MAINS						
	FED FROM: MDP-1		M	CB TYPE:	COPPER			MCB RATING:	225 A					
CCT NO.	. Load Name TRIF		POLES	,	A		В	С		POLES	TRIP	L	oad Name	CC
1	CUH-1 MAIN BUILDING	20 A	3	3333 VA	3333 V					3	20 A	CUH - 2 MAIN	BUILDING	2
3			-			3333 VA	3333 VA	\			-			4
5			-					3333 VA	3333 VA		-			6
7	CUH-3 MAIN BLDG	20 A	3	3333 VA	3333 V	A				3	15 A	CUH-5 ELEC/N	IECH BLDG	8
9						3333 VA	3333 VA	\			-			10
11								3333 VA	3333 VA		-			12
13	CUH-4 MAIN BLDG	20 A	3	3333 VA	4867 V	Α .				3	25 A	(2) IFH-A EAST	WARMING SHELTER	14
15						3333 VA	4867 VA	\			-			16
17								3333 VA	4867 VA		-			18
19	(2) IFH-A SOUTH CANOPY	25 A	3	4867 VA	2433 V	Α				3	20 A	IFH-A BUS ST	OP CANOPY	20
21	-					4867 VA	2433 VA	\			-			22
23								4867 VA	2433 VA		-			24
25	(2) IFH-A SOUTH CANOPY	25 A	3	4867 VA	7300 V	Α				3	30 A	IFH-A OUTBOL	IND SHELTER	26
27	-					4867 VA	7300 VA	\			-			28
29								4867 VA	7300 VA		-			30
31	(2) IFH-A MAIN BUILDING	25 A	3	4867 VA	2433 V	Α				3	20 A	IFH-A MAIN BU	IILDING	32
33						4867 VA	2433 VA	\			-			34
35								4867 VA	2433 VA		-			36
37	SPARE	20 A	1	0 VA	0 VA					1		SPARE		38
39	SPARE	20 A	1			0 VA	0 VA			1	30 A	EXIST. STREE	T SCAPE LIGHT POLES	40
41	NEW CONTRACTOR RELAY LIGHT							0 VA	0 VA	1	30 A	EXIST. STREE	T SCAPE LIGHT POLES	42
			TOTAL LOAD:	4830	00 VA	4830	10 VA	48300	VA					
			TOTAL AMPS:	17	4 A	17-	4 A	174	Α					
OAD	CLASSIFICATIONS:		CONN	ECTED LC)AD	DEMAND FAC	CTOR	ESTIMATED	DEMAND			PANEL 1		
	RICAL HEATING		1	08400 VA		100.00%)	108400				IECTED LOAD:		
IGHT				0 VA		0.00%		0 VA		1		EST. DEMAND:		
ОТО	R/EQUIPT.			0 VA		0.00%		0 VA				TOTAL CONN.:	174 A	
RECE	PTACLE			0 VA		0.00%		0 VA		1	OTAL I	EST. DEMAND:	174 A	
NOTES	g-													

		ELECTRICAL ROOM				480/277 W	'ye		A.I.C. Rating				NEUTRAL BUS: STANDARD, CO	
MC	DUNTING TYPE:				PHASES:				MAINS TYPE				GROUND BUS: STANDARD, CO	PPE
	ENCLOSURE:				WIRES:				MAINS.					
	FED FROM:	MDP-1		M	CB TYPE:	COPPER			MCB RATING	: 400 A				
CCT NO.	D. Load Name		TRIP	POLES	,	Α.		В	C	:	POLES	TRIP	Load Name	CO
1	IN BOUND SIDE	SNOW MELT SYSTEM	50 A	3	11080 VA	11080 VA	١				3	50 A	IN BOUND SIDE SNOW MELT SYSTEM	1 2
3							11080 VA	11080 V	A			-	-	4
5									11080 VA	11080 VA		-	-	6
7	IN BOUND SIDE	SNOW MELT SYSTEM	50 A	3	11080 VA	11080 VA	١				3	50 A	IN BOUND SIDE SNOW MELT SYSTEM	1 8
9				-			11080 VA	11080 V	A		-	-	-	10
11									11080 VA	11080 VA		-	-	12
13	IN BOUND SIDE	SNOW MELT SYSTEM	50 A	3	11080 VA	1030 VA					3	45 A	OUT BOUND SIDE SNOW MELT	14
15							11080 VA	1030 V	4			-		16
17									11080 VA	1030 VA		-		18
19	SPARE		50 A	3	0 VA	1030 VA					3	45 A	OUT BOUND SIDE SNOW MELT	20
21							0 VA	1030 VA	4			-		22
23									0 VA	1030 VA				24
	SPARE		50 A	3	0 VA	0 VA					1	20 A	SPARE	26
27	-						0 VA	0 VA			1		SPARE	28
29									0 VA	0 VA	1		SPARE	30
	SPACE				0 VA	0 VA					1		SPARE	32
33	SPACE			-			0 VA	0 VA			1	20 A	SPARE	34
35	SPACE			-					0 VA	0 VA	1	20 A	SPARE	3
37	SPACE				0 VA	0 VA					1	20 A	SPARE	38
	SPACE						0 VA	0 VA			1		SPARE	40
	SPACE								0 VA	0 VA	1		SPARE	42
	-			TOTAL LOAD:	5746	0 VA	5746	60 VA	5746	0 VA				
				TOTAL AMPS:	20	7 A	20	7 A	207	7 A				
	CLASSIFICATION	IS:			IECTED LC	AD D	EMAND FA		ESTIMATED				PANEL TOTALS	
	RICAL HEATING			1	72380 VA		100.00%	5	172380				IECTED LOAD: 172380 VA	
GHTI					0 VA		0.00%		0 V		1		EST. DEMAND: 172380 VA	
OTOF	VEQUIPT.				0 VA		0.00%		0 V	A			TOTAL CONN.: 207 A	
ECEP	TACLE				0 VA		0.00%		0 V	A	1	TOTAL	EST. DEMAND: 207 A	
OTES														_

	USER NAME	DESIGNED BY VA	REVISED	OTATE OF ILL INIOIO	CLARENDON HILLS	BUILDING	F.A.RTE.	SECTION	COUNTY TOTA	FAL SHEETS S	EET NO.
LEGATARCHITECTS		DRAWN BY VA	REVISED	STATE OF ILLINOIS	DOWNTOWN REVITILIZATION	50.2510	1003	16-00045-01-MS	DUPAGE	79	67
DESIGN PERFORMANCE SUSTAINABILITY	PLOT SCALE 12" = 1'-0"	CHECKED BY VA	REVISED	DEPARTMENT OF TRANSPORTATION	DOWNTOWN REVITILIZATION	ES.510 ELECTRICAL SCHEDULES			CONTRACT NO.	61G	,2
	PLOT DATE 05/15/20	DATE OF ISSUE 05/15/20	REVISED	DEI AITTIMENT OF TRANSFORTATION	SCALE: 12" = 1'-0" SHEET OF	STA. TO STA.		ILLINOIS F	ED. AID PROJECT		



TECHNOLOGY GENERAL NOTES

"FURNISH" MEANS TO "SUPPLY" AND USUALLY REFERS TO DELIVERY OF AN ITEM OF EQUIPMENT TO THE PROJECT SITE, READY FOR INSTALLATION. INSTALL* MEANS TO SET IN PLACE, CONNECT AND PLACE IN FULL OPERATIONAL ORDER. PROVIDE" MEANS TO "FURNISH" AND "INSTALL". "FUTURE", "BY OTHERS", "REFER (DISCIPLINE) DIVISION" AND SIMILAR EXPRESSIONS INDICATE WORK THAT MAY BE PERFORMED UNDER THE CONTRACT DOCUMENTS BUT, NOT NECESSARLY UNDER THE DIVISION OR DISICIPLIED ON WHICH THE NOT APPEARS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK WITH SUPPLIERS, SUBCONTRACTORS, EMPLOYEES, ETC. SHOULD CLARRICATION OF ANY PORTION OF THE WORK BE REQUIRED, CONTACT THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BID.

2. CODES

THE WORK SHALL COMPLY WITH LATEST LOCAL BUILDING CODE. THIS WOULD INCLUDE, BUT IS NOT LIMITED TO. THE THE WORK STALL COMPLY WITH LATEST LOCAL BUILDING CODE. HIS WOULD INCLUDE, BUT IS NOT LIMINED IN CURRENT CITY BUILDING CODE, ANSITIANNESS BICSI, AMENDMENTS, NPPA, ANSI, OSHA, AND ALL OTHER LOCAL OR MUNICIPAL BUREAUS AND DEPARTMENTS WHICH HAVE AUTHORITY OVER THE PROJECT; ANYTHING IN THESE CONT DOCUMENTS NOT WITHSTANDING. THIS SHALL NOT BE CONSTRUED AS WANNO COMPLIANCE WITH ANY REQUIREM. OF THE PLANS AND SPECIFICATIONS WHICH MAY BE IN EXCESS OF ANY REQUIREMENTS OF THESE CODES.

THE CONTRACTOR SHALL CAREFULLY COMPARE THE DRAWINGS AND SPECIFICATIONS. CHECKING THE MEASUREMENTS AND CONDITIONS UNDER WHICH CONSTRUCTION IS TO BE IMPLEMENTED. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS AND/OR SPECIFICATIONS, THE DISPUTED ISSUE SHALL BE REFERRED TO THE ENGINEER BEFORE ANY WORK IS EXECUTED. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS WORK A COMPLETE AND READY-TO-USE INSTALLATION. IF NOT SO-STATED IN THE CONTRACTOR'S PROPOSAL, ANY SUCH WORK WILL NOT BE CONSIDERED ADDITIONAL

4. COORDINATION

THE TECHNOLOGY DRAWINGS ARE DIAGRAMMATIC IN NATURE AND SHALL NOT BE SCALED. TO THIS EXTENT, DATA GIVEN ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED. THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL REQUIRED WORK AND EQUIPMENT WITH THAT OF THE OTHER TRADES. WHERE THERE ARE POTENTIAL CONFLICTS, THE CONTRACTOR SHALL OSTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, ETC. AT THE SITE AND SHALL SATISFACTORILY ADAPT HIS WORK TO ACTUAL FIELD CONDITIONS. WALL AND CELLION MOUNTED TEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT CICATION OF THE ITEM WITH THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL FLOOR AND CELLION TYPES IN ALL AREAS.

5. SITE EXAMINATION

THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE CONDITIONS UNDER WHICH CONSTRUCTION WILL BE MIPLEMENTED. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUCTO AS EVENECE THAT SUCH AN EXAMINATION HAS BEEN MADE. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLICATIONS OF THE CONTRACT. ANY LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED FOR DIFFICILL TES. ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.

6. SAFETY

THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE CLIENT'S EMPLOYEES, BUILDING EMPLOYEES AND GUESTS AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CABLE, EQUIPMENT, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.

7. CONTRACTOR'S DRAWING REVIEW

ALL CONTRACTORSIBIDERS SHALL HAVE RECEIVED A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR REVIEW AND REFERENCE TO WORK INDICATED. CONDUIT LOCATE SERVICES SHALL BE REQUESTED AND COMPLETED BEFORE DISTURBANCE OF ANY EXISTING GRADE OR ON-GRADE CONSTRUCTION, SLAB DEMOLITION, OR OTHER ACTIVITIES THAT MAY IMPACT BURIED UTILITIES OR COMMUNICATION CONDUITS. THE CONTRACTOR SHALL CONFIRM THAT CONDUIT LOCATE SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT CONTRACTOR SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT CONTRACTOR SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT OF SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT OF SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT OF SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT OF SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT OF SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT OF SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT OF SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT OF SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT OF SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT OF SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT OF SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT OF SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT OF SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT OF SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT OF SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONDUIT OF SERVICES HAVE BEEN COMPLETED AND THE SERVICES HAVE BEEN COMPLETED AND TH EXCAVATED OR EXISTING FLOORING DEMOLISHED, REGARDLESS OF THE LOCATION ON THE PROPERTY. THIS SHALL BE REVIEWED WITH THE OWNER'S PROJECT REPRESENTATIVE.

8. STATEMENT OF WORK

THE CONTRACTOR SHALL PROVIDE THE COMPLETE TECHNOLOGY INSTALLATION OF WORK AS INDICATED IN THE CONSTRUCTION DOCUMENTS, PRIOR TO COMMENCEMENT, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL, ANY SEQUENCE OF WORK, MOP'S (METHOD OF PROCEDURE) ANDIOR COORDINATION SHOP DRAWINGS FOR THE INTENDED WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECTIENGINEER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE NADEQUATE, UNSUITABLE, VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF

9 WORK PERFORMANCE REQUIREMENTS

ANY PENETRATIONS OR OPENINGS IN FIRE-RATED PARTITIONS (WALLS OR FLOORS) SHALL BE CLOSED AT THE END OF EACH WORK DAY, OR WHENEVER IT IS ANTICIPATED THAT NO FURTHER WORK WILL OCCUR IN THAT OPENING DURING THE DAY. THIS INCLUDES ALL TEMPORARY OPENINGS, CLOSURE SHALL BE IN COMPLIANCE WITH 3M FIREPROOFING THE DAY, HISI NICLUDES ALL TEMPORARY OF HINSS, CLOSURE SHALL BE IN COMPLIANCE WITH SM PREPRODUCT SPECIFICATIONS, ALL TEMPORARY WALL AND FLOOR OPENIOS SHALL BE PROTECTED AND MARKED AT ALL TIMES, PANTING SHALL BE SCHEDULED SUCH THAT DRYING TIME OCCURS DURING NON-WORKING HOURS FOR OPERATIONS PERSONNEL COMPORT NO WELDING SHALL TAKE PLACE INSIDE OF OPERATING FACILITY WITHOUT THE WRITTEN AUTHORIZATION OF THE OWNERS PROJECT REPRESENTATIVE. WELDING SHALL NOT TAKE PLACE WITHIN SPECT OF ANY TELECOMMUNICATIONS EQUIPMENT ROCK WITHOUT ADEQUATE PROTECTIVE MEASURES, AS DEEMED APPROPRIATE BY THE OWNERS PROJECT REPRESENTATIVE.

10 CUTTING AND PATCHING

ALL CUTTING, DRILLING AND PATCHING OF MASONRY STEEL OR IRON WORK BELONGING TO THE BUILDING MUST BE DONE BY THIS CONTRACTOR IN ORDER THAT HIS WORK MAY BE PROPERLY INSTALLED, BUT UNDER NO CONDITIONS MAY STRUCTURAL WORK BE CUT, EXCEPT AT THE DIRECTIONS OF THE ARCHITECT/ENGINEER OR THEIR REPRESENTATIVE.

11. AS-BUILT DRAWINGS

THE CONTRACTOR SHALL PROVIDE ALL "AS-BUILT" DRAWINGS SCALED 1/4" MINIMUM AND SUBMIT FOR APPROVAL TO THE ARCHITECT/ENGINEER

12. CONDUIT/RACEWAY SYSTEMS

THE CONDUIT ROUTINGS INDICATED ARE ONLY DIAGRAMMATIC IN NATURE. FIELD CONDITIONS SHALL DICTATE THE CONTRACTOR'S EXACT CONDUIT ROUTING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SIZING AND LOCATING PULL BOXES PER THE NEC AND APPLICABLE MUNICIPAL CODES AND FOR COORDINATION WITH OTHER DISCIPLIES. ALL RACEWAYS SHALL CONCEALED FROM NEW MODE INSTALLED PRAFALLE ON PERPENDICULAR TO WALLS OR STRUCTURAL MEMBERS, SUCH AS TO FOLLOW ISTRUCTURAL SURFACE CONTOURS AND NOT OBSTRUCT PASSAGEWAYS. MULTIFLE RACEWAYS SHALL BE NOT ROSTETHER, IN GROUPING. ALL CONDUIT SHALL BE COORDINATED AND APPROVED BY METRA, ARCHITECTIENGINEER AND OWNER PRIOR TO INSTALLATION. EXTRA TIME SHOULD BE ALLOWED FOR THIS REVIEW AND APPROVAL NO ADDITIONAL COST TO OWNER WILL BE ALLOWED DUE TO LACK OF COORDINATION. ALL CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EINT) AND MINIMM SIZE SHALL BE I'L UNLESS NOTED OTHER OTHER OFFICE OF THE RESIDENCE OF THE SHALL WE RESIDE OF THE SHALL SHALL BE LECTRICAL METALLIC TUBING (EINT) AND MINIMM SIZE SHALL BE I'L UNLESS NOTED OTHER OTHER OFFICE OF THE RESIDENCE OF THE SHALL SHALL SHALL BE LECTRICAL THE ALL SHALL (RGS) CONDUIT SHALL BE USED WHEN CONDUIT IS INSTALLED IN OUTDOOR AREAS. METAL RACEWAY OR CABLE ARMOR/SHEATH SHALL NOT BE USED AS THE PRIMARY EQUIPMENT GROUNDING CONDUCTOR.

ALL MATERIALS AND EQUIPMENT PROVIDED IN THIS WORK SHALL BE NEW AND SHALL HAVE THE APPROPRIATE ULL ISTING ANDIOR FM APPROVAL.

14. TECHNOLOGY ALTERATION AND DEMOLITION:

- A COMPLETE AND ACCURATE DESCRIPTION OF ALL TECHNOLOGY WORK WITHIN THE AFFECTED AREAS CANNOT RE A COMPLETE AND ACCURATE DESCRIPTION OF ALL TECHNOLOGY WORK WITHIN THE AFFECTED AREAS CANNOT BE ACCOMPLISHED THROUGH THE MEDIA OF DRAWINGS AND SPECIFICATIONS. IN EVERY CASE WHERE SUCH EXISTING TECHNOLOGY WORK PREVENTS PROPER CONSTRUCTION OF NEW WORK AS INDICATED, PERFORM WHATEVER WORK AND PROVIDE WHATEVER METERIALS ARE REQUIRED IN ORDER TO REMOVE, REPOLITE, RELICATE OR IN OTHER WAYS ALTER THAT EXISTING INTERIOR AND/OR SITE TECHNOLOGY WORK SUCH PERFORMANCE AS GENERALLY OUTLINED HEREIN AND AS IS FOUND NECESSARY UNDER FIELD CONDITIONS SHALL BE CONSIDERED AS INCLUDED UNDER THE CONTRACT.
- B. EXISTING TECHNOLOGY MATERIALS AND EQUIPMENT, INCLUDING TELECOMMUNICATIONS DEVICES, SECURITY DEVICES, CONDUIT OUTLETS, FITTINGS, WIRE, CABLE AND OTHER DEVICES WHICH ARE DEMOLISHED AS A RESULT OF THE ALTERATIONS SHALL BE DELIVERED TO OWNER CONTACT THE VILLAGE OF CLARENDON HILLS IT DEPARTMENT PRIOR TO REMOVAL. DAN UNGERLEIDER, 503-265-5412
- C. ALL ITEMS OF EXISTING EQUIPMENT, MATERIALS, ETC. SHALL REMAIN THE PROPERTY OF THE BUILDING OWNER. ALL REUSABLE ITEMS SALVAGED DURING DEMOLITION SHALL BE RETAINED AND TURNED OVER TO THE BUILDING OWNER
- D. LEGALLY DISPOSE ALL ITEMS REJECTED OR UNWANTED BY THE BUILDING OWNER. EXISTING TECHNOLOGY MATERIALS AND EQUIPMENT, WITH THE EXCEPTION OF WIRE AND CABLE, AS GENERALLY OUTLINED IN THE PREVIOUS PARAGRAPH, SHALL BE REUSED AS COMPLETELY AS IS FOUND PRACTICAL EXAMINE THE CONDITION OF OWNER THE CONDITION OF SHET AND ADMIXE A PROPOSED ETEMINATION OF WHETHER IT IS SUITABLE FOR REUSE. PRESENT FINDINGS PERIODICALLY TO THE ARCHITECT WHO IN TURN WILL MAKE THE FINAL DECISION REGARDING REUSABILITY. ALL WIRE AND CABLE SHALL BE NEW.
- E. CONTRACTOR SHALL PERFORM ALL INTERIOR AND/OR SITE CUTTING AND PATCHING FOR TECHNOLOGY WORK
- F. CONTRACTOR SHALL REPAIR ALL DAMAGES TO EXISTING CONSTRUCTION DUE TO ALTERATIONS, OPERATION OR INSTALLATION OF NEW FIBER TO VILLAGE HALL. CONTRACTOR SHALL COORDINATE ACCESS TO EXISTING COMMUNICATIONS MANHOLES / DUCT AND VILLAGE HALL BUILDING PENTRATIONS WITH THE VILLAGE OF CLARENDON HILLS.

14. MISCELLANEOUS SUPPORTING MEMBERS:

A. ALL ANGLES, CHANNELS AND OTHER MISCELLANEOUS STEEL, BOLTS, THREADED RODS, ETC., REQUIRED TO SUPPORT TECHNOLOGY EQUIPMENT OR DEVICES SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

PATHWAY NOTES:

- 1. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL DEVICE LOCATIONS AND MOUNTING HEIGHTS.
- PROVIDE A MINIMUM (1) 5 INCH SQUARE X 2-7/8 INCH DEEP DOUBLE GANG JUNCTION BOX WITH MUD/EXTENSION RING AT EACH WALL OR CEILING DEVICE OUTLET LOCATION. PROVIDE A MINIMUM (1) 1 INCH CONDUIT BETWEEN THE DEVICE OUTLET AND THE OUTDOOR RATED NEMA ENCLOSURE. REFER TO DRAWINGS FOR LOCATION OF ENCLOSURE.
- PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

CONDUIT FILL CHART @ 40% BASED ON 0.23" O.D. CAT5E CABLE, 0.27" O.D. CAT6 CABLE & 0.31" O.D. CAT6A CABLE

CONDUIT SIZE	CATEGORY 5E	CATEGORY 6	CATEGORY 6A
1"	7	6	4
1 1/4"	11	10	7
1 1/2"	16	14	10
2"	29	23	17
2 1/2"	46	40	31
3"	67	61	46
3 1/2"	91	80	61
4"	119	103	78

1. CHART IS PROVIDED FOR REFERENCE ONLY.

2. CONDUITS SHALL BE SIZED BASED ON CALCULATIONS UTILIZING ACTUAL O.D. OF CABLING ROUTED WITHIN THE CONDUIT.

SECURITY NOTES:

- REFER TO ARCHITECTURAL DRAWINGS FOR FINAL DEVICE LOCATIONS AND MOUNTING HEIGHTS. COORDINATE MOUNTING OF DEVICES ON EXTERIOR FACADES WITH THE ARCHITECT.
- 2. PROVIDE A MINIMUM (1) 5 INCH X 5 INCH X 2-7/8 INCH DEEP RECESSED WEATHER-PROOF JUNCTION BOX AND BLANK PROVIDE A MINIMUM (1) S NCH X 5 NICH X 2-78 INCH DEEP RECESSED WEATHER-PROOF JUNITON BOX AND BLANK WEATHER-PROOF OVER AT EACH CEILING MOUNTED SECURITY CAMERA LOCATION, PROVIDE METRALIC COVER PLATE AT FUTURE INFRASTRUCTURE ONLY CELING MOUNT CAMERA LOCATIONS TO CONCEAL RECESSED JUNCTION BOX. COORDINATE COLOR WITH ARCHITECT AND PROVIDE PRODUCT SUBMITHAL PRIOR TO INSTILLATION. PROVIDE A MINIMUM (1) 1.25 INCH CONDUIT BETWEEN EACH SECURITY CAMERA IN SERIES. PROVIDE MINIMUM (1) 1.25 INCH COMDUIT FROM CAMERA LOCATION TO HAMPHOLE OR OUTDOOR RATED NEMA ENCLOSURE. REFER TO DRAWINGS FOR LOCATION OF HAMPHOLES AND IT ENCLOSURE.
- PROVIDE (1) CONCEALED 3/4" CONDUIT FROM ENTRY TO DOORS WITH TIMED LOCKED. STUB CONDUIT TO DOOR FRAME CHANNEL. CONTROL CABLE (PROVIDED BY OTHERS) SHALL BE ROUTED AND CONCEALED INSIDE OF MULLION.
- 4. PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

PAGING NOTES:

- 1. REFER TO ARCHITECTURAL DRAWINGS FOR FINAL DEVICE LOCATIONS AND MOUNTING HEIGHTS. COORDINATE
- 2. METRA WILL FURNINSH AND INSTALL ALL SPEAKER CABLING IN PATHWAYS PROVIDED BY THE ELECTRICAL CONTRACTOR
- 3. METRA WILL FURNISH AND INSTALL ALL SPEAKERS
- 4. PROVIDE A MINIMUM OF (1) 1 INCH CONDUIT BETWEEN EACH LIGHT POLE. IN SERIES. PROVIDE MINIMUM (1) 1 INCH CONDUIT FROM LIGHT POLE TO HANDHOLD. REFER TO DRAWINGS FOR LOCATION OF HANDHOLES, LIGHT POLES AND MECHANICAL / IT ROOM.
- PROVIDE PULL STRING IN ALL EMPTY CONDUITS.

TECHNOLOGY LEGEND

	COMMUNICATIONS					
\triangleleft	DUAL PORT FACEPLATE - (2 CABLES)					
4	QUAD PORT FACEPLATE - (4 CABLES)					
4	SINGLE PORT FACEPLATE - (1 CABLE)					
J*	JUNCTION BOX WITH FLEXIBLE CONDUIT AND FINAL EQUIPMENT OR FURNITURE SYSTEM CONNECTION. SUBSCRIPT INDICATES THE FOLLOWING: "D" DATA					
HH	HAND HOLE					
	SECURITY DEVICES					
X	CAMERA (1 CATEGORY 6 CABLE) (SHALL BE WHITE IN COLOR)					
AUDIO VISUAL DEVICES (FURNISHED AND INSTALLED BY METRA)						
(\$)	13° ROUND FLUSH MOUNT LOUDSPEAKER WITH BACKBOX AND TILE-BRIDGE. ALL NEW SPEAKERS SHALL BE WHITE IN COLOR (BOGEN \$861725PG8U/W)					
(§) _L	LIGHT POLE SPEAKER - WEATHERPROOF LOUDSPEAKER - COLOR SHALL BE BLACK (BOGEN AZTBLK) [CONTRACTOR TO PROVIDE AN ALLOWANCE OI SPRAY PAINT DUITER SPEAKER COVER SILVER TO MATCH POLE PRIOR TO INSTALLATION BY METRA]					
	DEVICE ANNOTATION					
MU	MULLION MOUNTED DEVICE					
WP	WEATHERPROOF					
	THE FOLLOWING SYMBOLS INDICATE THE MOUNT TYPE WHEN COMBINED WITH DATA OUTLETS AND OTHER DEVICES UNLESS OTHERWISE NOTED:					
	WALL / POLE MOUNTED					

EQUIPMENT LIST

	COPPER CONNECTIVITY	
KEY	DESCRIPTION	COMMENTS
(2)	CABLES, UTP, 4-PAIR, CATEGORY 6 - OUTDOOR RATED	CONTRACTOR
(8)	JACK, MODULAR BLANK INSERT	CONTRACTOR
C10	JACK, MODULAR, CATEGORY 6, RJ45	CONTRACTOR
C13	FACEPLATE, MODULAR, 1 POSITION, WHITE	CONTRACTOR
C14	FACEPLATE, MODULAR, 2 POSITION, WHITE	CONTRACTOR
C15	FACEPLATE, MODULAR, 3 POSITION, WHITE	CONTRACTOR
C16)	FACEPLATE, MODULAR, 4 POSITION, WHITE	CONTRACTOR
C23	SURFACE MOUNT BOX, SMALL, 1 POSITION	CONTRACTOR
	2-PAIR 18 AWG SPEAKER WIRING - OUTDOOR RATED	FURNINSHED AND INSTALLED BY METRA

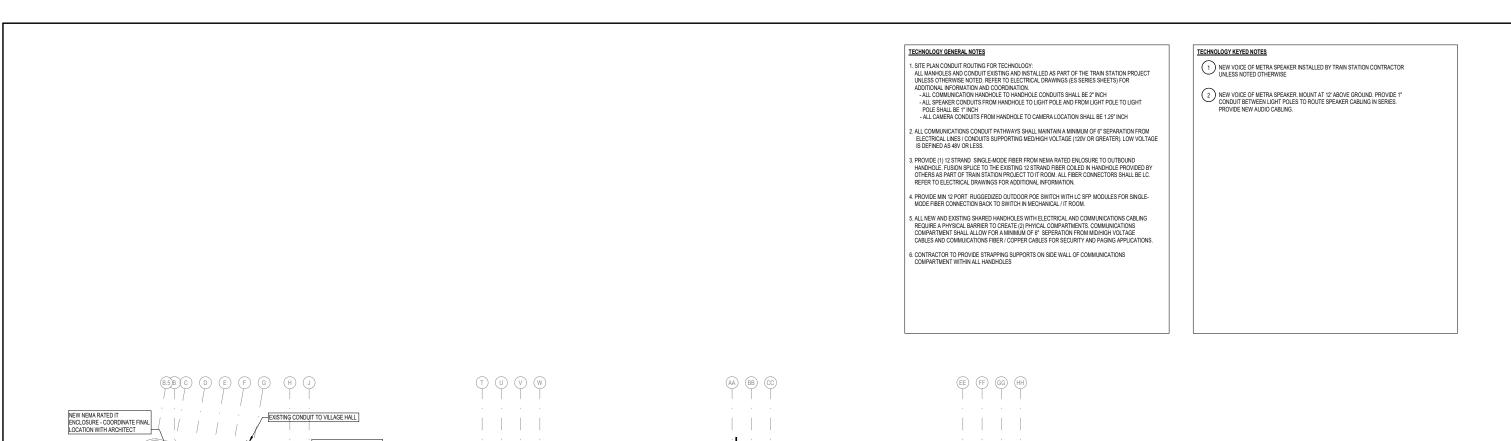
	RACKS, CABINETS AND ENCLOSURES	
KEY	DESCRIPTION	COMMENTS
Œ4	OUTDOOR NEMA RATED IT ENCLOSURE - 24"H x 24"W x 12"D (INCLUDE AIC UNIT, 18" FLOOR STANDING KIT AND ACCESSORIES TO SUPPORT FIBER, COPPER, RUGGEDIZED ETHERNET SWITCH AND MEDIA CONVERTERS) COORDINATE WITH ARCHITECTUAL, CIVIL AND ELECTRICAL.	CONTRACTOR

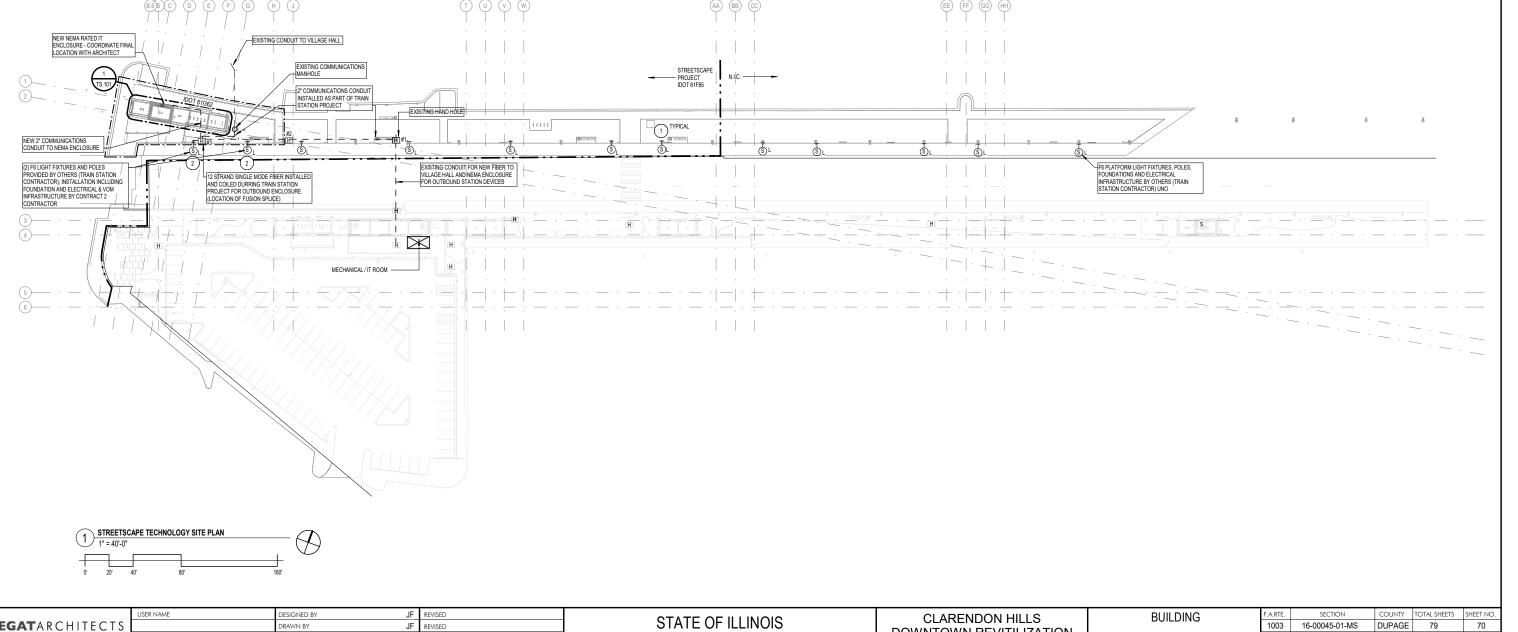
	COMMUNICATIONS RACEWAY AND CONDUIT	
KEY	DESCRIPTION	COMMENTS
(R1)	3/4" CONDUIT	CONTRACTOR
R2	1" CONDUIT	CONTRACTOR
R3	1-1/4" CONDUIT	CONTRACTOR
R4	1-1/2" CONDUIT	CONTRACTOR
R5	2" CONDUIT	CONTRACTOR
R6	2-1/2" CONDUIT	CONTRACTOR
(R7)	3" CONDUIT	CONTRACTOR
R8	3-1/2" CONDUIT	CONTRACTOR
R9	4" CONDUIT	CONTRACTOR
(R10)	CONDUIT PULL BOX	CONTRACTOR

VIDEO SURVEILLANCE PRODUCTS - BASES OF DESIGN (REFER TO SPECIFICATION SECTION 281300 FOR ADDITIONAL INFORMATION							
	KEY	DESCRIPTION	CAMERA INFORMATION	COMMENTS			
	360	CAMERA, EXTERIOR, 360 DEGREE, 6MP, WHITE	SPECO TECHNOLOGY P/N: 06MDP2	CAMERA DEDICATED TO VoCH POLICE			
	FIXED	CAMERA, FIXED, EXTERIOR, 6MP, 2.8MM LENS, WHITE	SPECO TECHNOLOGY P/N: 03VLD1	CAMERA DEDICATED TO VoCH POLICE			

GENERAL NOTE: NOT ALL SYMBOLS, NOTES AND ABBREVIATIONS ARE APPLICABLE TO THIS PROJECT

	USER NAME	DESIGNED BY JF	REVISED	07475 05 11 1 14 10 10	CLARENDON HILLS	BUILDING	F.A.RTE. SEC	TION	COUNTY TOTAL SH	HEETS SHEET	I NO.
LEGAT ARCHITECTS		DRAWN BY JF	REVISED	STATE OF ILLINOIS		TS.000 TECHNOLOGY SYMBOLS,	1003 16-00045	5-01-MS	DUPAGE 79	6	9
DESIGN PERFORMANCE SUSTAINABILITY	PLOT SCALE 12" = 1'-0"	CHECKED BY JF	REVISED	DEPARTMENT OF TRANSPORTATION	DOWNTOWN REVITILIZATION	NOTES & ABBREVIATIONS			CONTRACT NO.	61G62	
	PLOT DATE 05/15/20	DATE OF ISSUE 05/15/20	REVISED	DELARTIMENT OF TRANSPORTATION	SCALE: 12" = 1'-0" SHEET OF	STA. TO STA.		ILLINOIS FEE	D. AID PROJECT		





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DESIGN PERFORMANCE SUSTAINABILITY	PLOT SCALE 1" = 40'-0"	CHECKED BY JF	REVISED	DEPARTMENT OF TRANSPORTATION	DOWNTOWN REVITILIZATION	TS.100 TECHNOLOGY SITE PLAN		CONTRACT NO. 61G62
1	PLOT DATE 05/15/20	DATE OF ISSUE 05/15/20	REVISED	DELAKTIVILINI OF TRANSFORMATION	SCALE: 1" = 40'-0" SHEET OF	STA. TO STA.	ILLINOIS F	ED. AID PROJECT

TECHNOLOGY GENERAL NOTES

1. ROUTE ALL TECHNOLOGY CABLING TO OUTDOOR RATED NEMA ENCLOSURE.

2. ALL CONDUITS SHALL BE ROUTED ABOVE STRUCTURE AND CONCEALED IN VERTICAL
COLUMNS. COORDINATE ALL CONDUIT ROUTING WITH ARCHITECT PRIOR TO ROUGH-IN.

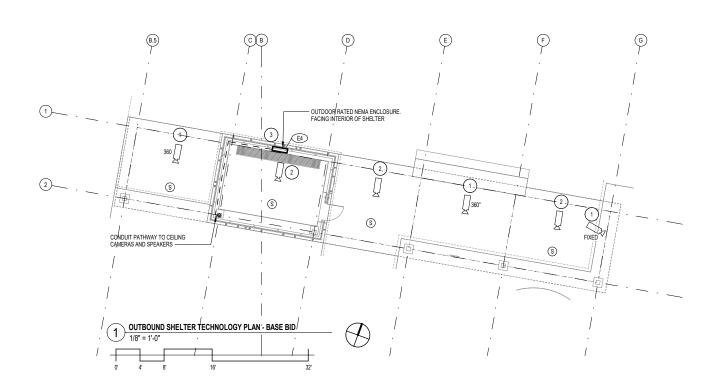
REFER TO ARCHITECTURAL DRAWINGS FOR CAMERA AND SPEAKER BACK BOX DIMENSIONAL LOCATIONS. FINAL LOCATION TO BE APPROVED BY ARCHITECT PRIOR TO INSTALLATION.

TECHNOLOGY KEYED NOTES

SURVEILLANCE CAMERA DEDICATED TO VoCH POLICE. REFER TO DETAILS FOR CAMERA MOUNTING REQUIREMENTS.

2 FUTURE SURVEILLANCE CAMERA DEDICATED TO VoCH POLICE. REFER TO DETAILS FOR CAMERA MOUNTING REQUIREMENTS. CONTRACTOR TO PROVIDE INFRASTRUCTURE ONLY WITH BLANK COVER FOR FUTURE CAMERA

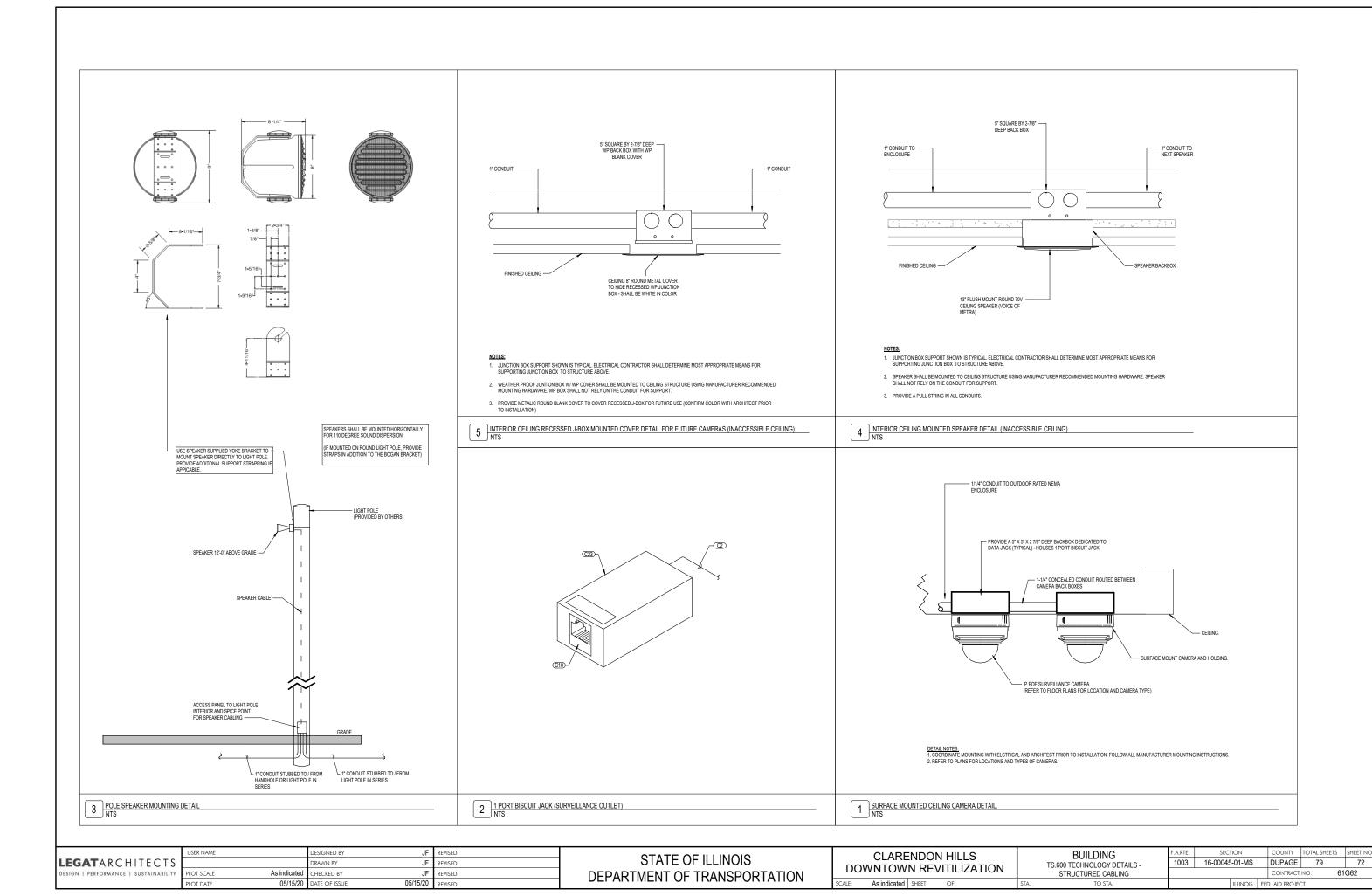
3) IN WALL 24" x 18" x 8" OUTDOOR RATED NEMA ENCLOSURE. HOUSE OUTDOOR RATED ETHERNET POE SWITCH FOR CAMERAS, ELECTRICAL CONTRACTOR TO PROVIDE A 120/W20. FORULT AND 2" CONDUIT TO EXISTING HANDHOLE FOR CONNECTION TO METRA STATION MECHANICAL ROOM.

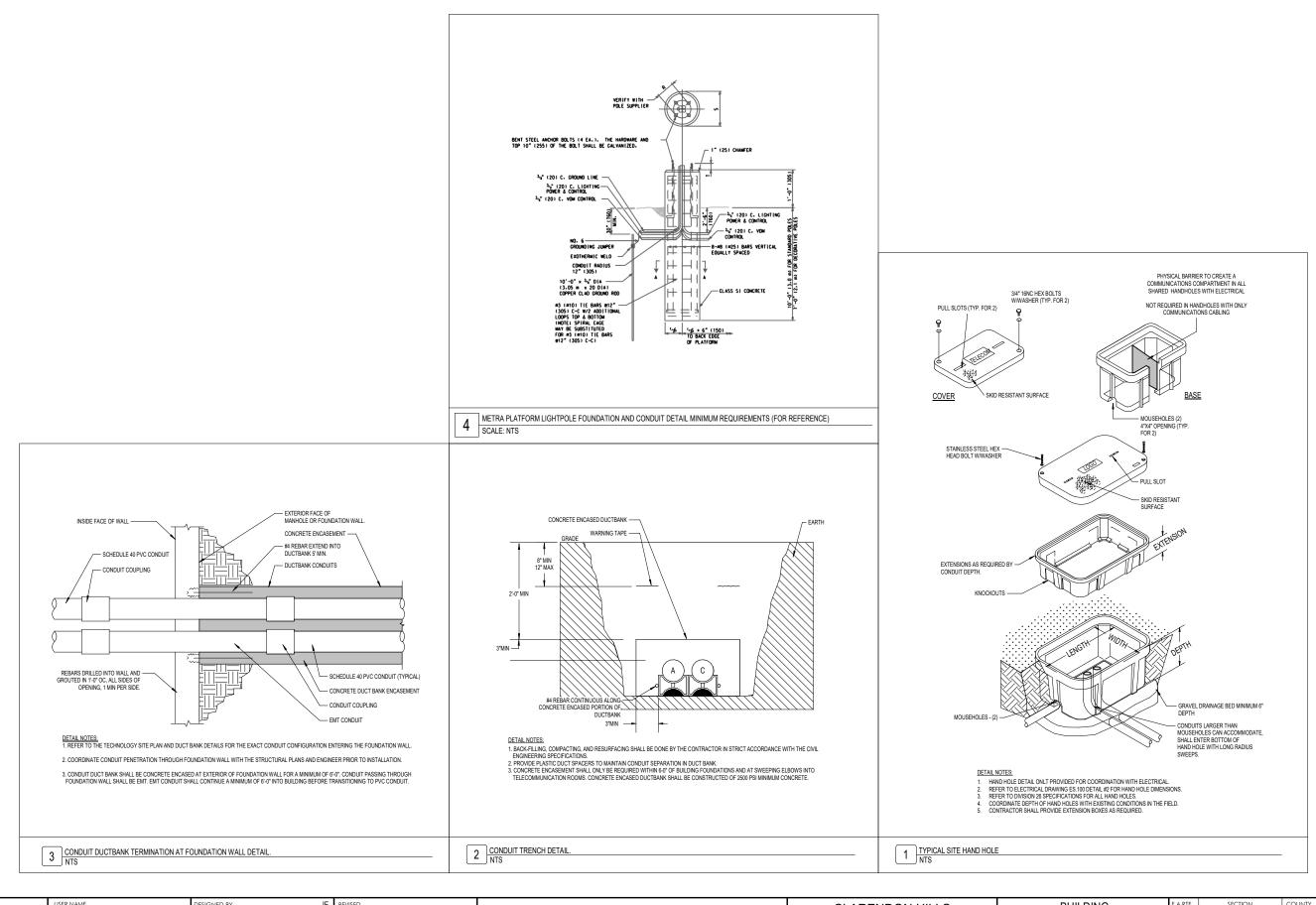


	USER NAME	DESIGNED BY JF	REVISED
LEGAT ARCHITECTS		DRAWN BY JF	REVISED
ESIGN PERFORMANCE SUSTAINABILITY	PLOT SCALE 1/8" = 1'-0"	CHECKED BY JF	REVISED
	PLOT DATE 05/15/20	DATE OF ISSUE 05/15/20	REVISED

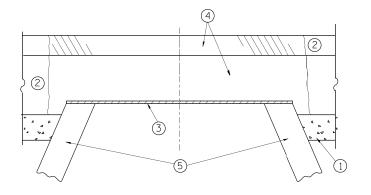
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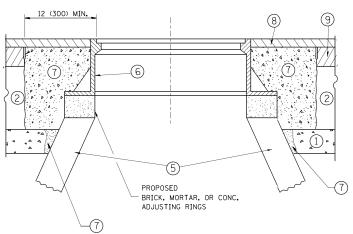
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1003	16-00048	5-01-MS		DUPAGE	79	71
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USER NAME DESIGNED BY JF REVISED COUNTY TOTAL SHEETS SHEET NO CLARENDON HILLS BUILDING STATE OF ILLINOIS **LEGAT**ARCHITECTS JF REVISED 1003 16-00045-01-MS DUPAGE 79 73 TS.601 TECHNOLOGY DETAILS -STRUCTURED CABLING DOWNTOWN REVITILIZATION CONTRACT NO. 61G62 DESIGN | PERFORMANCE | SUSTAINABILITY LOT SCALE As indicated CHECKED BY REVISED DEPARTMENT OF TRANSPORTATION As indicated SHEET OF 05/15/20 REVISED DATE OF ISSUE ILLINOIS FED. AID PROJECT





NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORESPONDING PAY ITEM.

SCALE: NONE

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.

 D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40)
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 11/2 (40 THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1*
 CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING
 BASE COURSE OR THE BINDER COURSE.
- *UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- 6) FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT

(5) EXISTING STRUCTURE

- (7) CLASS PP-1* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- (8) PROFOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- 9 PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURE

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON CCMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

COUNTY

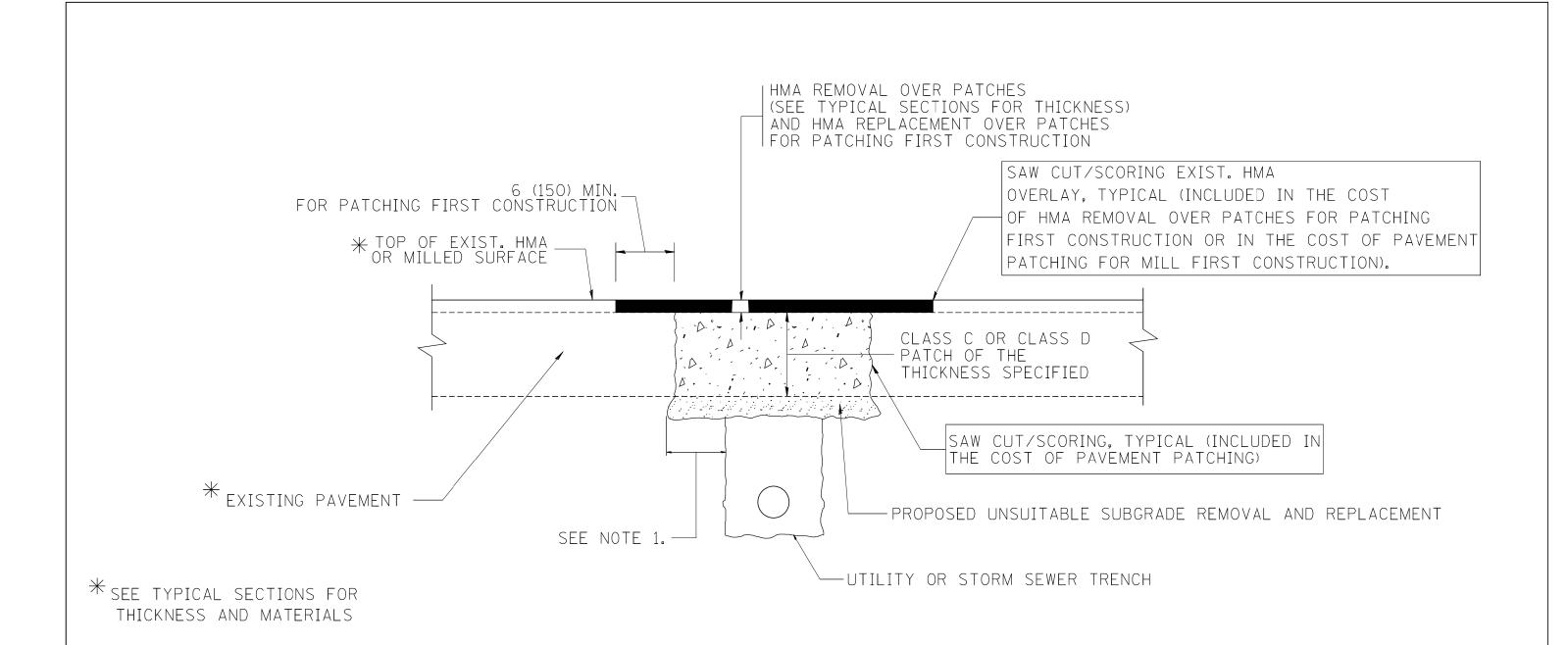
DUPAGE

CONTRACT NO.61G62

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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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)

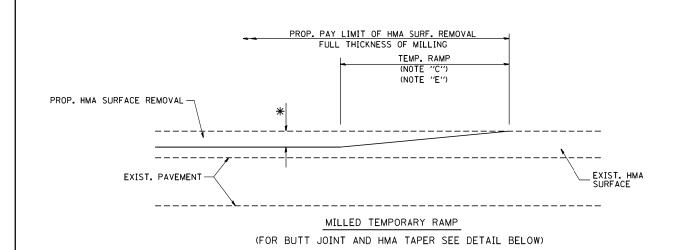
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

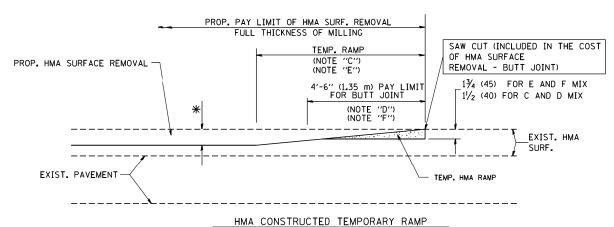
- 1. MILL HMA FIRST IF THERE IS AT LEAST $4\frac{1}{2}$ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED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

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

FILE NAME =	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	F.A. SECTION	COUNTY TOTAL SHEET SHEETS NO.
c:\projects\diststd22x34\bd22.dgn		DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		1003 16-00045-01-MS	DUPAGE 79 75
	PLOT SCALE = 50.000 '/ [N.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	BD400-04 (BD-22)	CONTRACT NO.61G62
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST, NO. 1 ILLINOIS FED	. AID PROJECT



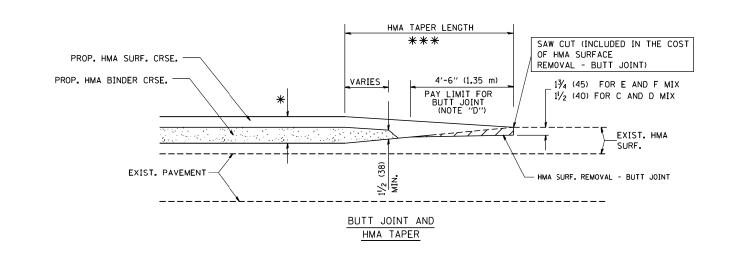
OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

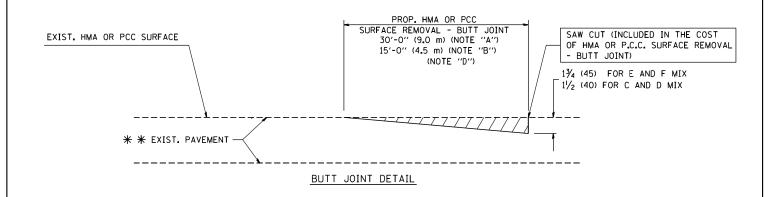
FILE NAME = goglanobt DESIGNED - M. DE YONG REVISED - R. SHAH 10-25-94

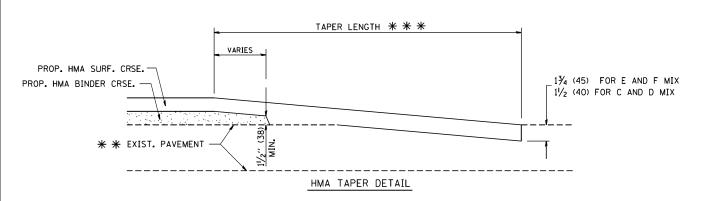
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PLOT SCALE = 50.0000 '/ IN. CHECKED - REVISED - M. GOMEZ 04-06-01

PLOT DATE = 1/4/2008 DATE - 06-13-90 REVISED - R. BORO 01-01-07

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

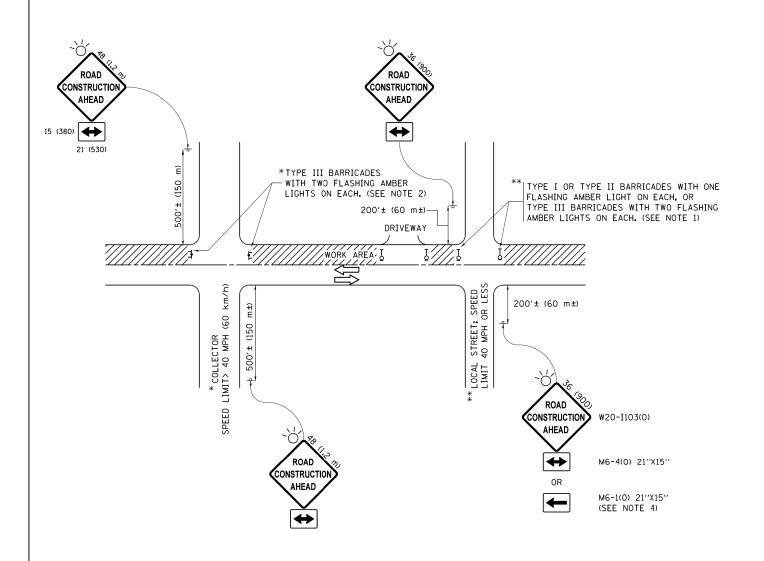
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- ** \times 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER)
FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

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



NOTES:

- 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:
 - d) 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).

SCALE: NONE

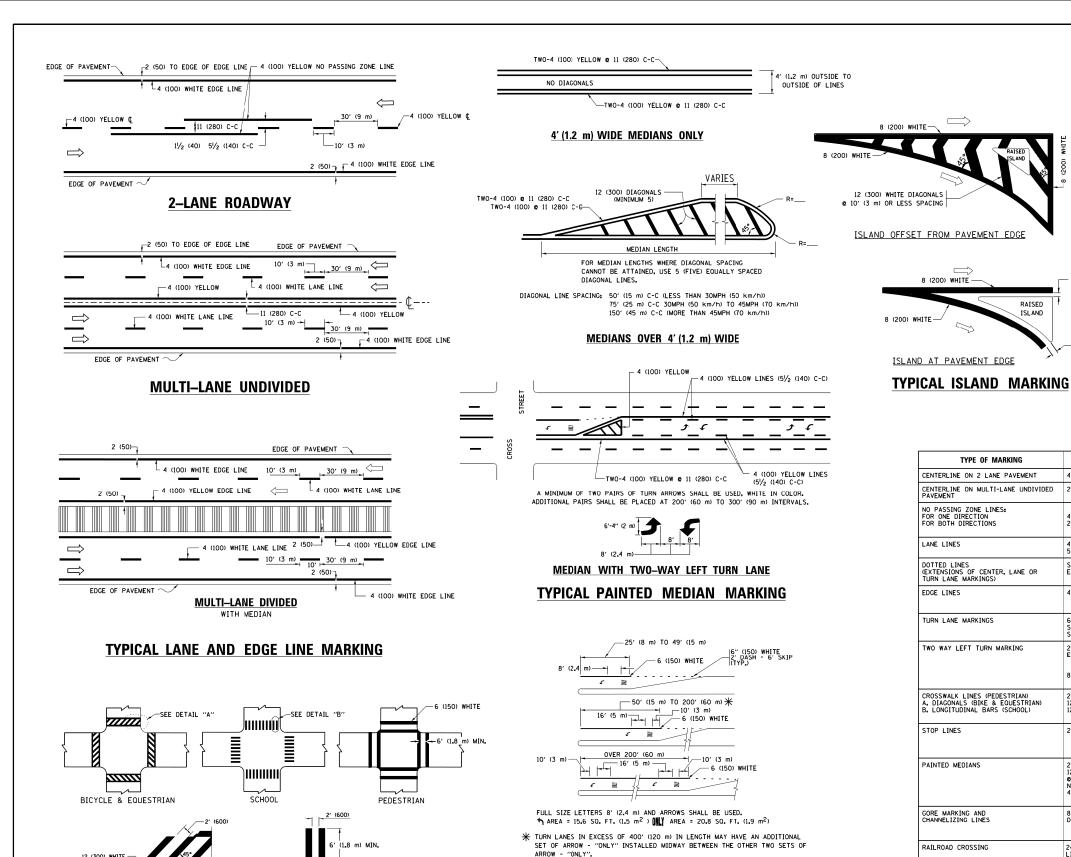
- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED 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 = footemj	DESIGNED - L.H.A.	REVISED	- A. HOUSEH 10-15-96
pw:\\ILØ84EBIDINTEG.1ll1no1s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\Dist	D DRAWN \CADData\CADsheets\tc10.dgn	REVISED	-T. RAMMACHER 01-06-00
	PLOT SCALE = 50.000 '/ in.	CHECKED -	REVISED	- A. SCHUETZE 07-01-13
Default	PLOT DATE = 9/15/2016	DATE - 06-89	REVISED	- A. SCHUETZE 09-15-16

STATI	E OF	: ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

	TRAFFIC	CONTROL	AND PROTECTIO	N FOR	F.A. RTE.	SECTION
ÇI	DE BUVDS	INTERS	ECTIONS, AND DR	IVEWAVS	1003	16-00045-01-MS
31	DE HUADS	, IIVILIIO	LUTIONS, AND DI	IVEVVAIS		TC-10
	SHEET 1	OF 1	SHEETS STA.	TO STA.		ILLINOIS



TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING

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

425 500 580 665 50 750 40 (1020) 64 (1620) **COMBINATION** LEFT AND U-TURN 5'-4" (1620) √ 32 R (810) LANE REDUCTION TRANSITION * LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS. **U-TURN**

D(FT)

345

SPEED LIMIT

30

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	5½ (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	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH, 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EOUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 e 6 (150) 12 (300) e 45° 12 (300) e 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1,2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, 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.
CORE 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" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R":3.6 SO, FT. (0.33 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 (0VER 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

6'-4" (1930)

— 2 (50)

2 (50)

RAISED

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

FILE NAME = USER NAME = leysa DESIGNED - EVERS REVISED - C. JUCIUS 09-09-09 W:\diststd\22x34\tc13.dgr DRAWN REVISED - C. JUCIUS 07-01-13 CHECKED REVISED C. JUCIUS 12-21-15 DATE REVISED C. JUCIUS 04-12-16

TYPICAL CROSSWALK MARKING

 $\mbox{\ensuremath{\#}}$ markings shall be installed parallel to the centerline of the road which it crosses

-12 (300) WHITE

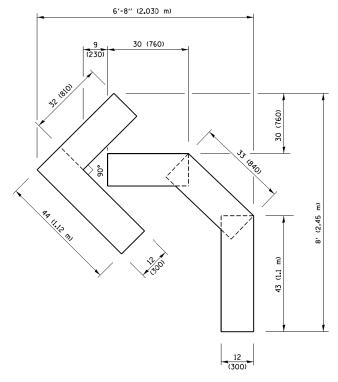
DETAIL "B"

-6 (150) WHITE

DETAIL "A"

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE1	
						1003	16-00045-01-MS	DUPAGE	79	78
TIFICAL FAVEIVILIVE IVIANKIIVOS							TC-13 CONTRACT NO.			362
SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.		THE INOIS FED. AID PROJECT			



QUANTITY

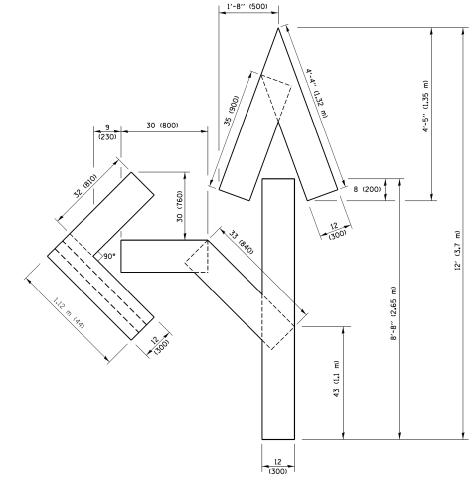
4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.41 sq. m)

6' (2 m)

* 4 (100)	16 (400) * 16 (400) * 16 (400) * 16 (400) *
8' (2.450 m) 16 (400)	12 (300) 8 (200)

4 (100) LINE = 64.1 ft. (19.5 m) 21.4 sq. ft. (1.99 sq. m)

QUANTITY

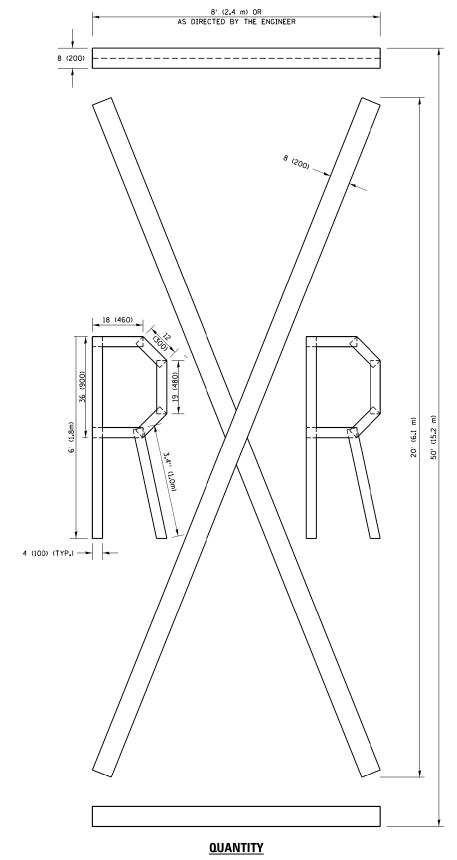


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m) 27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



4 (100) LINE = 225.9 ft. (68.9 m) 75.3 sq. ft. (6.99 sq. m)

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

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED	-T. RAMMACHER 03-02-98	
pw:\\IL084EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\Dist	t DRAWM \CADData\CADsheets\tc16.dgn	REVISED	-E. GOMEZ 08-28-00	
	PLOT SCALE = 50.00000 '/ in.	CHECKED -	REVISED	-E. GOMEZ 08-28-00	DE
	PLOT DATE = 9/15/2016	DATE - 09-18-94	REVISED	- A. SCHUFTZF 09-15-16	ĺ

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS					F.A RTE.	F.A. SECTION COUNTY TOTAL SHE				
						SYMBOLS	1003	1003 16-00045-01-MS	DUPAGE	79	79
								TC-16	CONTRACT	NO.610	62
	SCALE: NONE	SHEET I	NO. 1 OF 1	SHEETS	STA.	TO STA.	FED E	FED BOAD DIST NO 1 JULINOIS FED AID PROJECT			