

Construction Plans

West Main Street Improvements

for

Louisville Metro

Honorable Mayor Greg Fischer

LOUISVILLE METRO PUBLIC WORKS & ASSETS

444 S. FIFTH STREET, SUITE 300
LOUISVILLE, KENTUCKY 40202
P: 502-574-6230

LOUISVILLE DOWNTOWN PARTNERSHIP

556 S. FOURTH STREET
LOUISVILLE, KENTUCKY 40202
P: 502-584-6000

MAY 4, 2015

Utilities Information

ELECTRIC
LOUISVILLE GAS &
ELECTRIC
701 S 9TH STREET
LOUISVILLE, KY 40203-2084
PHONE: (502) 589-1444

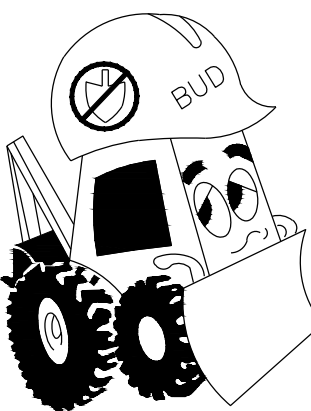
NATURAL GAS
LOUISVILLE GAS & ELECTRIC
701 S 9TH STREET
LOUISVILLE, KY 40203-2084
PHONE: (502) 589-1444

TELEPHONE
BELL SOUTH
P.O. BOX 32410
LOUISVILLE, KENTUCKY
40232
PHONE: (502) 557-6000

WATER
LOUISVILLE WATER
COMPANY
550 SOUTH THIRD STREET
LOUISVILLE, KY 40202
PHONE: (502) 569-3600

STATE ROADS
TRANSPORTATION CABINET
DEPARTMENT OF
HIGHWAYS
DISTRICT OFFICE NO. 5
8310 WESTPORT ROAD
LOUISVILLE, KY 40242
PHONE (502) 210-5400

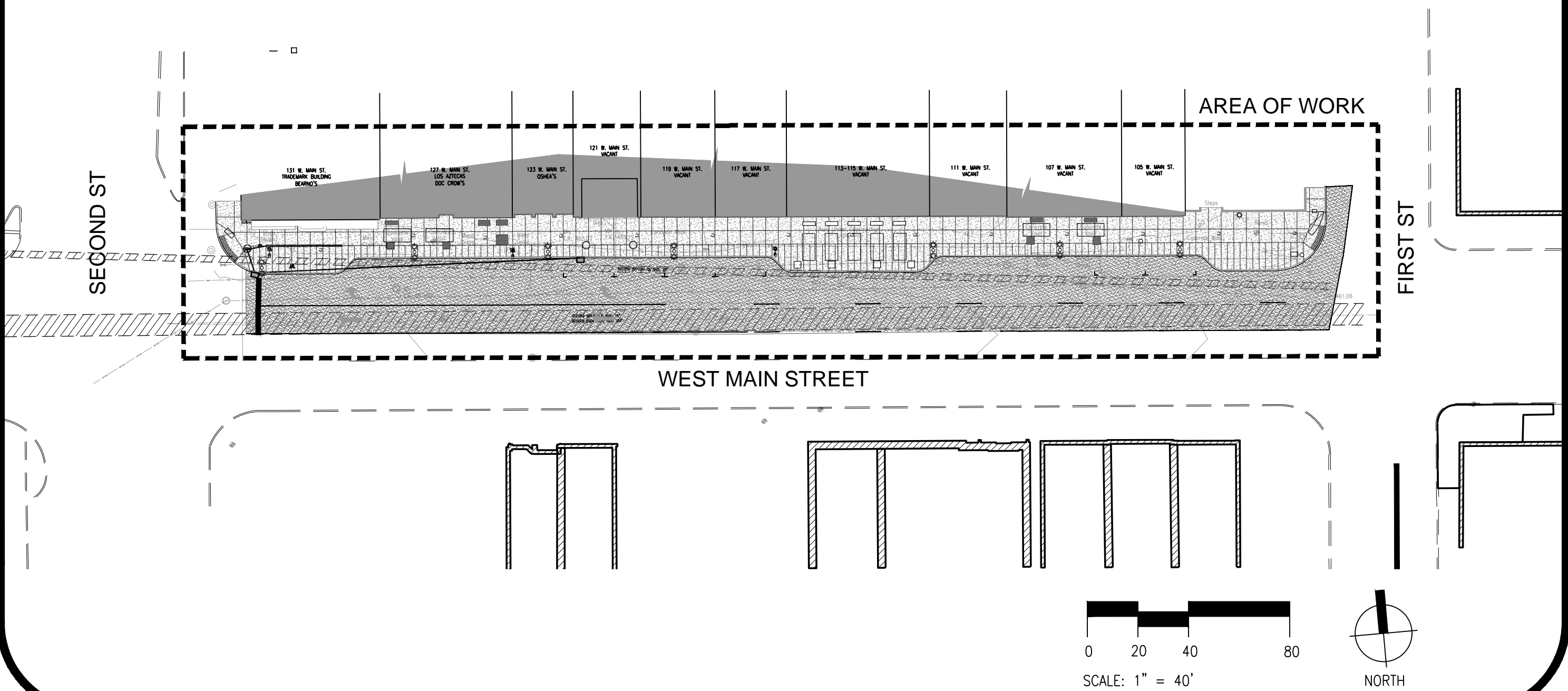
SANITARY SEWER
METROPOLITAN SEWER
DISTRICT
700 WEST LIBERTY STREET
LOUISVILLE, KY 40202
PHONE: (502) 540-6000



The New Look For Digging Safely in Kentucky
Kentucky 811

FOR LOCATION OF UNDERGROUND UTILITIES, CALL KENTUCKY 811
(811 OR 800-752-6007) AT LEAST 2 BUSINESS DAYS PRIOR TO DIGGING.

General Improvements Plan



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CARMAN NO. 15-107
WM# 11157

LEGEND

○	LIGHT POLE (LP)	—S—S—	STORM PIPING
●	STREET LIGHT (LP)	—SS—SS—	SANITARY PIPING
○	FIRE HYDRANT (FH)	—G—G—	GAS LINE
○	POWER POLE (PP)	—W—W—	WATER LINE
○	TELEPHONE POLE (TP)	—UG—UG—	ELECTRIC LINE
○	WATER VALVE (WV)		
○	WATER METER (WM)		
○	POST INDICATOR VALVE (PIV)		
○	GAS METER (GM)	—W—W—	WATER LINE
○	GAS VALVE (GV)	—GAS—GAS—	GAS LINE
○	SANITARY MANHOLE	—OHT—OHT—	OVERHEAD ELECTRIC
○	STORM MANHOLE	—UG—UG—	UNDERGROUND ELECTRIC
○	MANHOLE	—UGT—UGT—	UNDERGROUND TELEPHONE/CABLE
○	CLEAN OUT		
○	INV. INVERT ELEVATION		
○	F.L. FLOW LINE ELEVATION		
○	T.G. SURFACE ELEVATION (TOP-OF-GRADE)		
○	T.R. SURFACE ELEVATION (TOP-OF-RIM)		

CLIENT

Louisville Metro
Louisville Downtown Partnership
556 S. Fourth Street
Louisville, KY 40202
Phone: (502) 584-6000

PLANS PREPARED BY

CARMAN
Civil Engineer
Landscape Architect
CARMAN
639 E. Jefferson St., Suite 102
Louisville, KY 40202
Phone: (502) 742-6581
CARMAN Project # 15-107

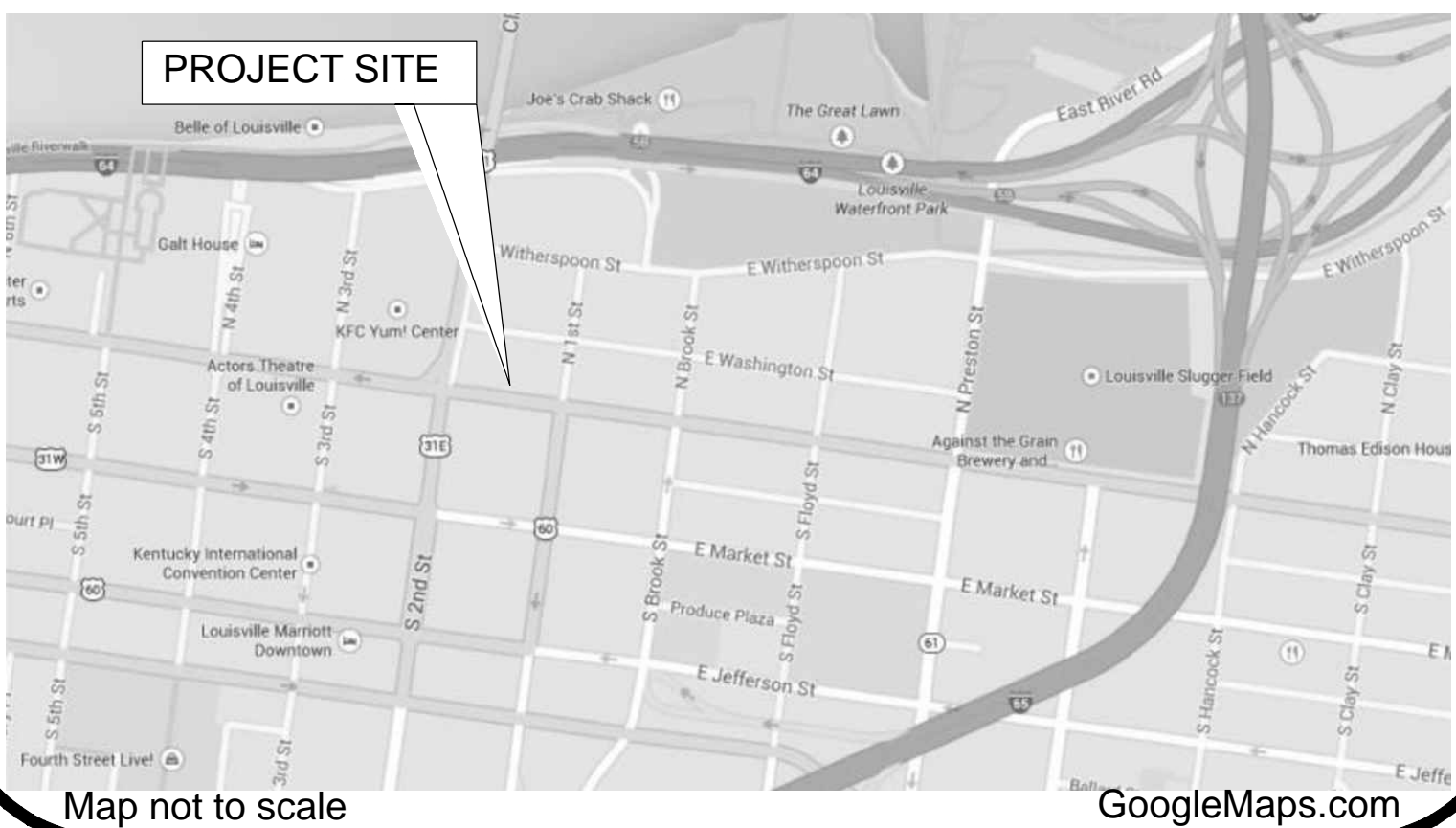
SURVEY
Endris Engineering
771 Enterprise Drive
Lexington, KY 40510
Phone: (859) 253-1425

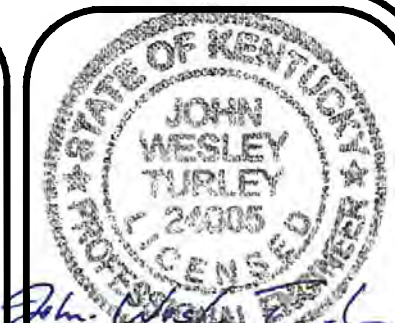
CONSTRUCTION MANAGER



MAC
Construction & Excavating, Inc.

Vicinity Map





DEMOLITION PLAN

MAIN STREET IMPROVEMENTS

LOUISVILLE DOWNTOWN PARTNERSHIP
556 SOUTH FOURTH STREET
LOUISVILLE, KY 40202



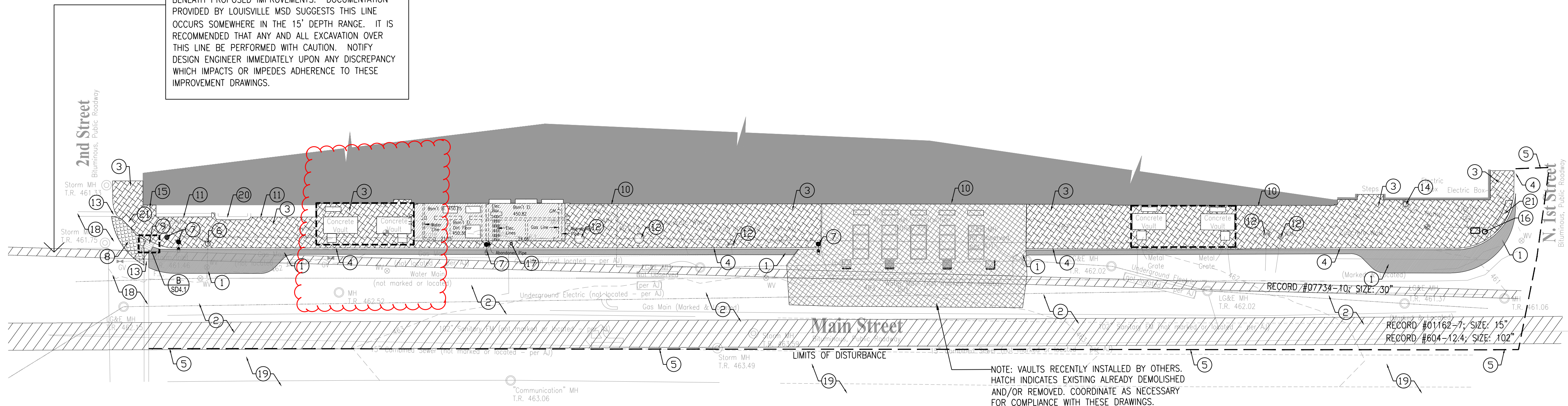
DRAWN TAE
DATE 5/4/2015
CHECKED JLC
REVISED
JLC # 15-107

SHEET

SD2.0

EXISTING SANITARY NOTE

SPECIFIC INFORMATION IS NOT KNOWN AND/OR HAS BEEN PROVIDED REGARDING THE EXISTING 30" SANITARY SEWER LINE WHICH RUNS EAST/WEST AND IS INDICATED BENEATH PROPOSED IMPROVEMENTS. DOCUMENTATION PROVIDED BY LOUISVILLE MSD SUGGESTS THIS LINE OCCURS SOMEWHERE IN THE 15' DEPTH RANGE. IT IS RECOMMENDED THAT ANY AND ALL EXCAVATION OVER THIS LINE BE PERFORMED WITH CAUTION. NOTIFY DESIGN ENGINEER IMMEDIATELY UPON ANY DISCREPANCY WHICH IMPACTS OR IMPEDES ADHERENCE TO THESE IMPROVEMENT DRAWINGS.



A

DEMOLITION PLAN

DEMOLITION NOTES

- CONTRACTOR TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO DEMOLITION WORK.
- SAWCUT PAVEMENT IN CLEAN STRAIGHT LINES. COORDINATE SAWCUTS WITH PROPOSED LAYOUT.
- REFER TO STREETSCAPE LAYOUT PLAN TO ENSURE THE EXTENT OF DEMOLITION ACTIVITIES MATCHES IMPROVEMENTS.
- THE CONTRACTOR SHALL ESTABLISH TRAFFIC CONTROL AND SIGNING AS REQUIRED BY THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND THE MAINTENANCE OF THE TRAFFIC PLAN HEREIN. PROVIDE TEMPORARY BARRICADES, TRAFFIC BARRELS, AND FLAGMEN AS NECESSARY FOR CREW AND MOTORIST SAFETY. LANE CLOSURES, TEMPORARY SIGNAGE AND NIGHT BARRICADES SHALL COMPLY WITH KYDOH AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) - LATEST EDITIONS.
- DURING CONSTRUCTION, THE WORK AREA SHALL BE KEPT CLEAR OF DEBRIS AND MUD WHICH WOULD CREATE A HAZARD TO THE PEDESTRIAN AND MOTORIST.
- ALL DEMOLISHED MATERIALS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER. CONTRACTOR SHALL PAY ALL HAULING, LANDFILL EXPENSES AND OBTAIN ANY NECESSARY PERMITS TO DO SO.
- EXISTING PAVING AND SIDEWALKS SCHEDULED TO REMAIN SHALL BE PROTECTED OR REPLACED IF DAMAGED.
- CONTRACTOR RESPONSIBLE FOR OBSERVATION OF SITE PRIOR TO BIDDING TO DETERMINE QUALITY, QUANTITY AND VALUE OF ITEMS TO BE DEMOLISHED AND REMOVED.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FULLY PROTECT ALL STRUCTURES. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO DAMAGED STRUCTURES. THIS ALSO INCLUDES REPAIRS TO CITY STREETS.
- ALL UTILITY MANHOLES, LOCATED WITHIN THE NEW CONSTRUCTION ZONE, RIM ELEVATIONS TO BE ADJUSTED TO PROPOSED GRADE ELEVATIONS.
- CONTRACTOR TO PROVIDE TEMPORARY ACCESS RAMPS/ ROUTES TO BUSINESSES DURING CONSTRUCTION.
- ALL BITUMINOUS PAVING AND CONCRETE WORK UNDER THIS CONTRACT SHALL BE AS SPECIFIED BY THE KENTUCKY TRANSPORTATION CABINET.
- ALL CONSTRUCTION MATERIALS SHALL BE STORED OFF THE KYDOH RIGHT-OF-WAY TO THE EXTENT POSSIBLE TO AVOID A SAFETY HAZARD.
- UNLESS DIRECTED BY THE PERMIT ENGINEER OR KYDOH REPRESENTATIVE, ALL METHODS OF CONSTRUCTION WITHIN THE KYDOH RIGHT-OF-WAY SHALL CONFORM WITH THE KYDOH STANDARD SPECIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR NOTIFYING THE KYDOH DISTRICT ENGINEER 48 HOURS IN ADVANCE OF ASPHALT PAVING OPERATIONS.
- CONTRACTOR SHALL OBTAIN AND PAY FEES FOR ALL APPLICABLE PERMITS. A SEPARATE DEMOLITION PERMIT IS REQUIRED.
- ASPHALT PAVEMENT REMOVED AS A RESULT OF DEMOLITION OPERATIONS IS TO BE REPAIRED PER THE ASPHALT RESTORATION DETAIL OR APPROVED MEASURES.
- ALL CONSTRUCTION AND MATERIALS INSTALLED WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- ADDITIONAL SAW CUTTING MAY BE REQUIRED TO CLEANLY SEPARATE FEATURES TO REMAIN AND THOSE TO BE REMOVED.

CODED DEMOLITION NOTES

KEY	DESCRIPTION
1	REMOVE ASPHALT PAVEMENT AND BASE -- REFER TO LAYOUT PLAN FOR DIMENSIONAL INFORMATION.
2	ASPHALT PAVEMENT OVERLAY; MILL ASPHALT PAVEMENT (1.5" MIN.) PRIOR TO INSTALLING NEW PAVEMENT
3	REMOVE CONCRETE SIDEWALK AND BASE. SAWCUT PAVEMENT AT NEAREST EXISTING JOINT
4	CONCRETE CURB TO BE SAWCUT AND REMOVED
5	SAWCUT ASPHALT PAVEMENT TO PROVIDE A CLEAN STRAIGHT EDGE WHERE OVERLAY MEETS EXISTING.
6	REMOVE FIRE HYDRANT: REFER TO LAYOUT PLAN FOR NEW LOCATION AND ADDITIONAL INFORMATION.
7	REMOVE LIGHT POLE, FIXTURE AND BASE. COORDINATE ELECTRICAL CUT-OFF WITH METRO PUBLIC WORKS.
8	SAWCUT AND REMOVE BRICK PAVERS TO ACCOMMODATE NEW CURBING. EXERCISE CAUTION TO MINIMIZE IMPACT TO PAVEMENT FIELD.
9	EXISTING STORM STRUCTURE TO BE MODIFIED AND CONVERTED TO MANHOLE. REMOVE TOP GRATE, HOOD AND SAWCUT AND REMOVE TOP PORTION OF STORM VAULT AS NECESSARY TO ALLOW FOR PROPOSED IMPROVEMENTS. COORDINATE WORK WITH MSD.
10	PROTECT BUILDING ENTRANCE. LIMITS OF CONSTRUCTION OCCUR AT THE FACE OF BUILDING (TYP.)
11	PROTECT WALL AND RAILING
12	PROTECT UTILITY MANHOLE LIDS, METER COVERS, GRATES, CLEANOUTS, ETC.. MODIFY HEIGHTS AS NECESSARY TO MATCH NEW FINISH GRADES.
13	SAWCUT AND REMOVE CONCRETE BANDING TO ACCOMMODATE NEW CURBING.
14	SALVAGE DECORATIVE LIGHT POLE FOR REUSE.
15	SALVAGE HISTORIC MARKER FOR REUSE.
16	SALVAGE TRAFFIC SIGNAL POLE, BASE, AND ELECTRICAL BOX FOR REUSE; REFER TO LAYOUT PLAN
17	PARKING METERS TO BE REMOVED BY PARKING AUTHORITY (PARC); 211 W. MUHAMMAD ALI BLVD.; 502-587-7275
18	PROTECT CONCRETE BANDING AND PAVERS
19	PROTECT EXISTING PAVEMENT
20	PROTECT STEP
21	REMOVE TACTILE WARNING PAVERS

EXISTING LGE VAULT NOTES (TYP. OF 4)

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION OF CONCRETE VAULT SLABS WITHIN AREA INDICATED. DEMOLITION SHALL OCCUR ONLY UNDER THE SUPERVISION OF A DESIGNATED LGE REPRESENTATIVE.
- CONTRACTOR SHALL REMOVE CONCRETE ONLY AND SHALL NOT DISTURB STRUCTURAL BEAMS.
- AFTER REMOVAL OF CONCRETE SLABS FROM THE EXISTING VAULTS, LGE WILL BEGIN RECONSTRUCTION OF VAULT STRUCTURE. UPON COMPLETION OF WORK BY LGE, THE CONTRACTOR SHALL RECONSTRUCT THE VAULT SLAB UTILIZING MATERIALS AND PATTERNS INDICATED ON THESE PLANS. ALL WORK ASSOCIATED WITH THE VAULT RECONSTRUCTION SHALL BE DONE UNDER THE SUPERVISION OF LGE PERSONNEL.
- THE CONTRACTOR SHALL BE AWARE THAT THE TWO (2) EXISTING ELECTRICAL VAULTS CONTAIN ACTIVE ELECTRICAL EQUIPMENT AND TRANSFORMERS. THE CONTRACTOR SHALL TAKE ANY AND ALL PRECAUTIONS TO ENSURE THE SAFETY OF THE PUBLIC AND CONSTRUCTION PERSONNEL, INCLUDING BUT NOT LIMITED TO BANNERS, WARNING SIGNS, ETC.. ALL WORK AROUND TRANSFORMER VAULT SHALL COMPLY WITH LGE, LOCAL, STATE AND FEDERAL SAFETY REQUIREMENTS.
- PLANS AND DETAILS OF THE EXISTING LGE VAULTS ARE ATTACHED FOR "REFERENCE ONLY" TO ASSIST THE CONTRACTOR IN UNDERSTANDING EXISTING CONDITIONS.

COORDINATION NOTES:

- MAIN ST. IMPROVEMENTS MUST MEET & MATCH ADJACENT CONDITIONS. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER UPON ANY DISCREPANCY THAT CAN'T OTHERWISE BE FIELD MODIFIED TO MEET THE DESIGN INTENT OF THESE DRAWINGS.
- EXISTING VAULTS AND BASEMENTS MUST BE FIELD EVALUATED PRIOR TO COMMENCEMENT OF IMPROVEMENT ACTIVITIES FOR COMPLIANCE WITH THESE IMPROVEMENT PLANS.

EXISTING BASEMENT NOTE

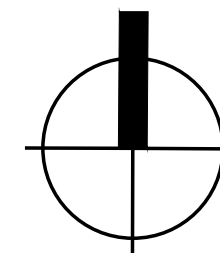
THERE ARE APPROXIMATELY SIX BASEMENT EXTENSIONS BELOW THE EXISTING SIDEWALK. SURVEY INFORMATION FOR THESE BASEMENTS IS NOT SHOWN. CONTRACTOR SHALL LOCATE THE BASEMENTS PRIOR TO DEMOLITION. SPECIAL CARE MUST BE TAKEN DURING DEMOLITION SO AS NOT TO DAMAGE THE STRUCTURAL INTEGRITY OF THE BASEMENTS. NEW SIDEWALKS WILL BE STRUCTURALLY BRIDGED OVER ALL BASEMENT AREAS.

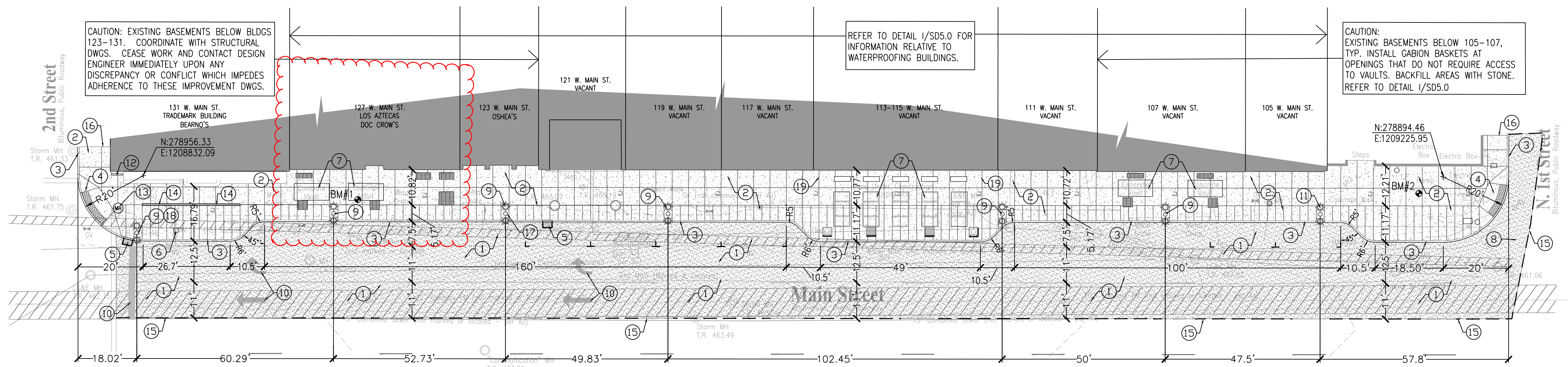
GRAPHIC LEGEND

MILL ASPHALT	REMOVE SIDEWALK
REMOVE TOP DRESSING SLAB OVER BASEMENT/VAULT	REMOVE ASPHALT
SAWCUT	EXISTING AREA ALREADY REMOVED BY OTHERS
STONE BAG INLET PROTECTION	REMOVE PAVERS IN ROADWAY

SCALE: 1" = 20'

0 10 20 40





A LAYOUT PLAN

EXISTING LGE VAULTS

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE DEMOLITION OF CONCRETE VAULT SLABS WITHIN AREA INDICATED. DEMOLITION SHALL OCCUR ONLY UNDER THE SUPERVISION OF A DESIGNATED LGE REPRESENTATIVE.
- CONTRACTOR SHALL REMOVE CONCRETE ONLY AND SHALL NOT DISTURB STRUCTURAL BEAMS.
- AFTER REMOVAL OF CONCRETE SLABS FROM THE EXISTING VAULTS, CONTRACTOR WILL BEGIN RECONSTRUCTION OF VAULT STRUCTURE. UPON COMPLETION OF VAULT RECONSTRUCTION, THE CONTRACTOR SHALL RECONSTRUCT THE VAULT SLAB UTILIZING MATERIALS AND PATTERNS INDICATED ON THESE PLANS. ALL WORK ASSOCIATED WITH THE VAULT RECONSTRUCTION SHALL BE DONE UNDER THE SUPERVISION OF LGE PERSONNEL.
- THE CONTRACTOR SHALL BE AWARE THAT THE FOUR (4) EXISTING ELECTRICAL VAULTS CONTAIN ACTIVE ELECTRICAL EQUIPMENT AND TRANSFORMERS. THE CONTRACTOR SHALL TAKE ANY AND ALL PRECAUTIONS TO ENSURE THE SAFETY OF THE PUBLIC AND CONSTRUCTION PERSONNEL, INCLUDING BUT NOT LIMITED TO BANNERS, WARNING SIGNS, ETC. ALL WORK AROUND TRANSFORMER VAULT SHALL COMPLY WITH LGE, LOCAL, STATE AND FEDERAL SAFETY REQUIREMENTS.
- PLANS AND DETAILS OF THE EXISTING LGE VAULTS ARE ATTACHED FOR "REFERENCE ONLY" TO ASSIST THE CONTRACTOR IN UNDERSTANDING EXISTING CONDITIONS.

PROPERTY ACCESS DURING CONSTRUCTION

- THE CONTRACTOR SHALL MAINTAIN AND/OR PROVIDE ACCESS TO ALL BUSINESSES DURING DEMOLITION AND CONSTRUCTION THROUGHOUT THE PROJECT BY MEANS OF TEMPORARY SIDEWALK "CROSSINGS" THAT WILL ALLOW ACCESS INTO BUSINESSES. APPROPRIATE BARRIERS, SIGNAGE AND WARNINGS SHALL BE PROVIDED THAT INFORMS THE PUBLIC OF PROPER ACCESS DURING CONSTRUCTION.
- PRIOR TO WORK OCCURRING AT EACH BUSINESS WITHIN THE WORK AREA, EACH PROPERTY OWNER / BUSINESS SHALL BE INFORMED OF THE PENDING WORK AND THE SCHEDULE OF TASKS. WORK SHALL BE PERFORMED IN PHASES THAT MINIMIZE DISRUPTION IN EACH AREA OF THE PROJECT.
- CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE PROTECTION OF THE WORK IN THE AREA OF EACH BUSINESS DURING CONSTRUCTION.

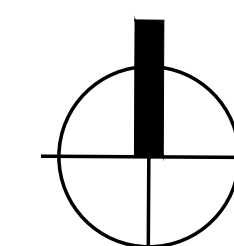
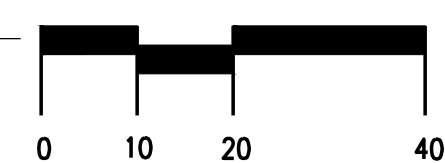
COORDINATION NOTES:

- MAIN ST. IMPROVEMENTS MUST MEET & MATCH ADJACENT CONDITIONS. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER UPON ANY DISCREPANCY THAT CAN'T OTHERWISE BE FIELD MODIFIED TO MEET THE DESIGN INTENT OF THESE DRAWINGS.
- EXISTING VAULTS AND BASEMENTS MUST BE FIELD EVALUATED PRIOR TO COMMENCEMENT OF IMPROVEMENT ACTIVITIES FOR COMPLIANCE WITH THESE IMPROVEMENT PLANS.

BENCHMARKS

- BM#1: MAG NAIL IN FRONT OF 127 W. MAIN ST.
N: 278938.98
E: 1208895.99
Z: 462.70
- BM#2: MAG NAIL EAST OF STEPS NEAR FIRST STREET INTERSECTION
N: 278890.66
E: 1209217.76
Z: 461.57

SCALE: 1" = 20'



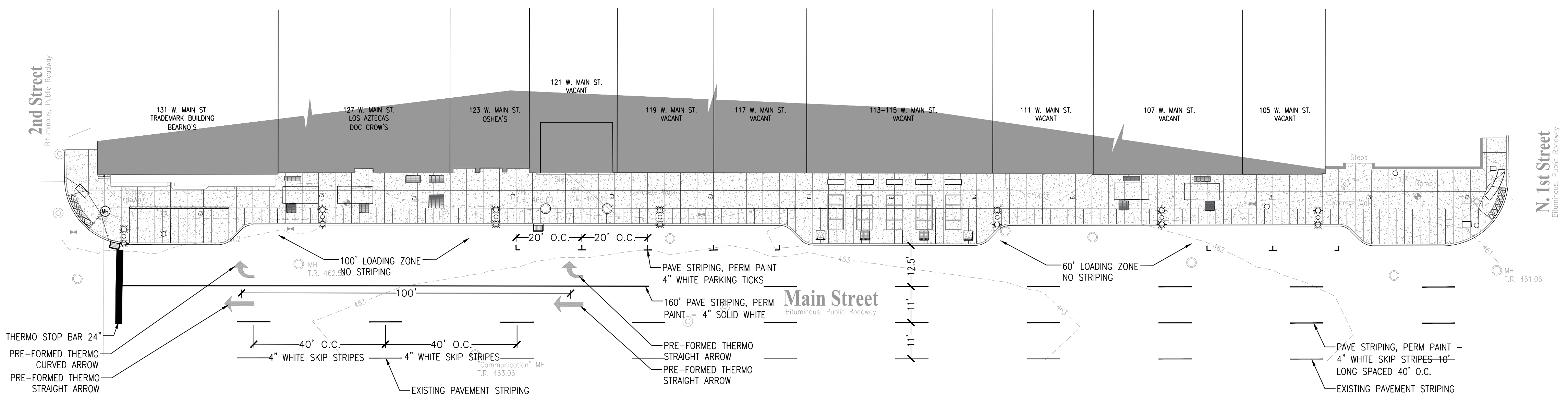
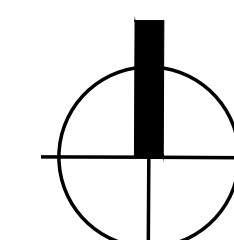
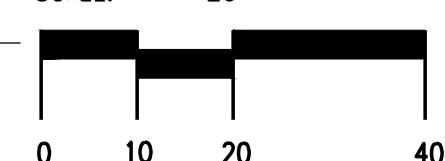
LAYOUT AND IMPROVEMENT NOTES

- DIMENSIONS ARE NOT TO BE SCALED. SHOULD DISCREPANCIES OCCUR IN THE DIMENSIONS ON THESE PLANS, NOTIFY THE LANDSCAPE ARCHITECT.
- PRIOR TO CONSTRUCTION OR DEMOLITION, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES SO THAT NEW CONSTRUCTION WILL NOT DAMAGE OR INTERFERE WITH EXISTING UTILITY LINES. SHOULD DAMAGE OCCUR, IT IS THE CONTRACTOR'S RESPONSIBILITY TO REPAIR AND/OR REPLACE SAID DAMAGE AT THE CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL PROVIDE HORIZONTAL AND VERTICAL CONTROL STAKING FOR ALL SITE IMPROVEMENTS.
- COORDINATES AND ELEVATIONS PROVIDED ON THESE PLANS ARE BASED ON REAL WORLD COORDINATES.
- ONLY THE DIMENSIONS AND INFORMATION ON THIS LAYOUT PLAN DATED 04/21/15 SHALL BE USED FOR SITE IMPROVEMENTS. ANY OTHER SCALED DIMENSIONS FROM ANY OTHER PLANS ARE NOT TO BE USED. IN ADDITION, DIMENSIONS, DATA, AND ANY OTHER LOCATION EXTRAPOLATED FROM ANY OTHER PLANS, INCLUDING DIGITAL, ARE NOT VALID.
- IT IS THE CONTRACTOR'S OR SUBCONTRACTOR'S RESPONSIBILITY TO OBTAIN AND UTILIZE THE MOST CURRENT CONTRACT PLAN AND SPECIFICATION DOCUMENTS.
- ALL WORK, CONSTRUCTION REQUIREMENTS, AND PERFORMANCE STANDARDS SHALL COMPLY WITH LOCAL AND STATE STANDARDS.
- CONTRACTOR SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL FOR MOTORIST SAFETY AND ALL OSHA REGULATIONS FOR WORKER SAFETY.
- NO MATERIAL TO BE WASTED IN A FLOOD PLAIN OR ON SITE.
- EXISTING SITE SURVEY INFORMATION WAS COMPILED BY ENDRIS ENGINEERING, 771 ENTERPRISE DRIVE, LEXINGTON, KY 40510. PH: 859-253-1425.
- EXPANSION JOINT MATERIAL TO BE USED ANYTIME NEW CONCRETE ADJOINS EXISTING PAVEMENT, VERTICAL SURFACES AND/OR PAVEMENTS OF VARYING THICKNESS.
- ALL PAVEMENT MARKINGS AND RELOCATED SIGNAGE TO CONFORM TO MUTCD AND THE "STANDARD HIGHWAY SIGNS" BOOK.
- ALL MARKINGS NOT OTHERWISE INDICATED SHALL BE THERMOPLASTIC STRIPING AND SHALL CONFORM TO MUTCD STANDARDS.
- ALL RADII GIVEN ARE TO FACE OF CURB OR WALL UNLESS OTHERWISE INDICATED.
- IN AREAS WHERE TRENCHING OR OVER-EXCAVATION HAS OCCURRED WITHIN THE ROADWAY, THE CONTRACTOR SHALL RECONSTRUCT THE ROAD TO MATCH THE EXISTING ROAD PROFILE OR TO CURRENT NEW ROADWAY CONSTRUCTION GUIDELINES, WHICHEVER IS GREATER.
- ASPHALT AND/OR CONCRETE PAVEMENT REMOVED AS A RESULT OF DEMOLITION OPERATIONS IS TO BE REPAIRED TO MEET AND MATCH EXISTING.
- ALL CONSTRUCTION AND MATERIALS INSTALLED WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.

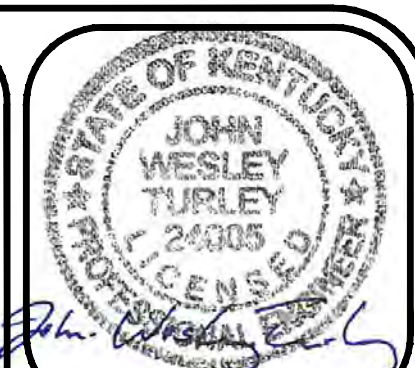
CODED LAYOUT NOTES

KEY	DESCRIPTION	DETAIL
1	ASPHALT PAVEMENT OVERLAY	A/SD5.0
2	5" CONCRETE SIDEWALK; SCORING AS SHOWN ON PLAN	B/SD5.0
3	CONCRETE HEADER CURB W/ HEAVY DUTY CURB GUARD BY NEENAH FOUNDRY R-4985 SERIES, CAST IRON (TYP. ALONG ENTIRE FACE OF CURB)	C/SD5.0 D/SD5.0
4	ACCESSIBLE RAMP W/ TACTILE WARNING PAVERS	E/SD5.0
5	NEW CURB INLET PER MSD STANDARDS	A/SD4.1
6	RELOCATED FIRE HYDRANT SET 2.66' FROM FACE OF CURB TO CENTER OF HYDRANT MATCHING EXISTING CONDITIONS - RECONNECT PER APPLICABLE PUBLIC WORKS STANDARDS.	
7	CONCRETE ACCESS LIDS; SCORING PATTERN TO MATCH SIDEWALKS; CREATE PATTERN TO MEET AND MATCH ADJACENT - COORDINATE THESE VAULT LIDS WITH LGE (SEE LGE VAULT NOTES) THIS SHEET	
8	RELOCATED EXISTING LIGHT POLE WITH TRAFFIC SIGNALS	
9	LOUISVILLE STANDARD DECORATIVE LIGHT POLE, FIXTURE, AND BASE TO MATCH SOUTH SIDE OF MAIN STREET	K/SD5.0
10	PAVEMENT APPLIED GRAPHICS	G/SD5.0
11	INSTALL SALVAGED DECORATIVE LIGHT POLE	
12	INSTALL SALVAGED HISTORIC MARKER PER KENTUCKY HISTORICAL SOCIETY STANDARDS	
13	CONVERT EXISTING CURB INLET INTO MANHOLE PER MSD STANDARDS. CONTACT RON HENDERSON 502-693-0984	
14	TRENCH DRAIN - REFER TO DRAINAGE PLANS	C/SD4.1
15	SAWCUT PAVEMENT ALONG CENTERLINE OF WEST MAIN STREET AND WHERE SHOWN ON PLANS.	
16	MEET AND MATCH GRADES	
17	INSTALL SALVAGED SIGN ON NEW LIGHT POST "NO PARKING - LOADING ZONE"	
18	INSTALL PEDESTRIAN CROSSING SIGNAL ON NEW LIGHT POST - MATCH EXISTING	
19	THICKENED CONCRETE WALK AT EDGE OF VAULT	

SCALE: 1" = 20'



B STRIPING PLAN



LAYOUT & STRIPING PLAN

MAIN STREET IMPROVEMENTS

LOUISVILLE DOWNTOWN PARTNERSHIP
556 SOUTH FOURTH STREET
LOUISVILLE, KY 40202

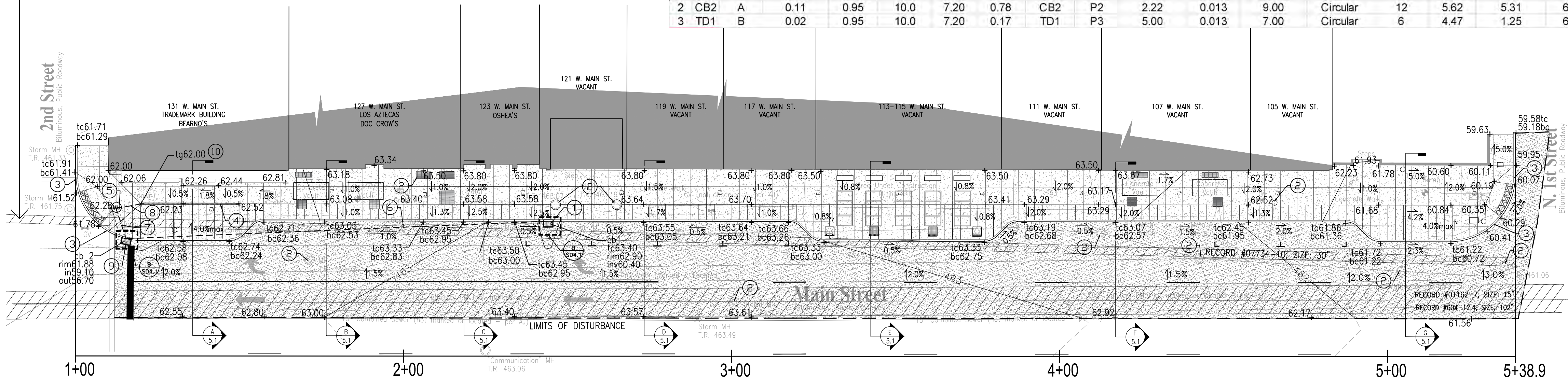


DRAWN TAE
DATE 5/4/2015
CHECKED JLC
REVISED
JLC # 15-107

SHEET
SD3.0

EXISTING SANITARY NOTE

SPECIFIC INFORMATION IS NOT KNOWN AND/OR HAS BEEN PROVIDED REGARDING THE EXISTING 30" SANITARY SEWER LINE WHICH RUNS EAST/WEST AND IS INDICATED BENEATH PROPOSED IMPROVEMENTS. DOCUMENTATION PROVIDED BY LOUISVILLE MSD SUGGESTS THIS LINE OCCURS SOMEWHERE IN THE 15' DEPTH RANGE. IT IS RECOMMENDED THAT ANY AND ALL EXCAVATION OVER THIS LINE BE PERFORMED WITH CAUTION. NOTIFY DESIGN ENGINEER IMMEDIATELY UPON ANY DISCREPANCY WHICH IMPACTS OR IMPEDES ADHERENCE TO THESE IMPROVEMENT DRAWINGS.



A GRADING PLAN

EROSION PREVENTION AND SEDIMENT CONTROL NOTES

- THE APPROVED EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLAN SHALL BE IMPLEMENTED PRIOR TO ANY LAND-DISTURBING ACTIVITY ON THE CONSTRUCTION SITE. ANY MODIFICATIONS TO THE APPROVED EPSC PLAN MUST BE REVIEWED AND APPROVED BY MSD'S PRIVATE DEVELOPMENT REVIEW OFFICE. EPSC BMP'S SHALL BE INSTALLED PER THE PLAN AND MSD STANDARDS.
- DETENTION BASINS, IF APPLICABLE, SHALL BE CONSTRUCTED FIRST AND SHALL PERFORM AS SEDIMENT BASINS DURING CONSTRUCTION UNTIL THE CONTRIBUTING DRAINAGE AREAS ARE SEEDED AND STABILIZED.
- ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL TRACKED ONTO THE ROADWAY SHALL BE REMOVED DAILY.
- SOIL STOCKPILES SHALL BE LOCATED AWAY FROM STREAMS, PONDS, SWALES AND CATCH BASINS. STOCKPILES SHALL BE SEEDED, MULCHED, AND ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE.
- ALL STREAM CROSSINGS MUST UTILIZE LOW-WATER CROSSING STRUCTURES PER MSD STANDARD DRAWING ER-02.
- SEDIMENT-LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING, OR OTHER EXCAVATION ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, SWALE, OR CATCH BASIN.
- WHERE CONSTRUCTION OR LAND DISTURBING ACTIVITY WILL OR HAS TEMPORARILY CEASED ON ANY PORTION OF A SITE, TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS PRACTICABLE, BUT NO LATER THAN 14 CALENDAR DAYS AFTER THE ACTIVITY AS CEASED.

MSD NOTES

EXISTING IMPERVIOUS: 19,773 SF
PROPOSED IMPERVIOUS: 19,773 SF

NEW CURB INLETS TO REPLACE EXISTING CURB INLET. NO ADDITIONAL DRAINAGE AREA HAS BEEN ADDED TO STRUCTURES. EXISTING AMOUNT OF IMPERVIOUS AREA TO REMAIN THE SAME.

NEW STORM STRUCTURE NOTE:

NEW CURB AND/OR SURFACE INLET SHALL BE CONSTRUCTED BY CONTRACTOR. INLET DESIGN WILL BE DETERMINED BY ENGINEER AND MSD AFTER CONTRACTOR HAS REMOVED EXISTING INLET AND CONDITIONS CAN BE EVALUATED. A \$5,000 ALLOWANCE SHALL BE PROVIDED FOR THE CONSTRUCTION OF NEW INLET. MAY NEED TO BE TRAPPED. IF SO, THIS SHALL BE DONE PER MSD SPECIFICATIONS.

EROSION PREVENTION AND SEDIMENT CONTROL PHASING NOTES

- CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH LOUISVILLE MSD TO DISCUSS EROSION CONTROL AND PREVENTION MEASURES PRIOR TO MOBILIZING THE PROJECT SITE.
- CONTRACTOR SHALL ENSURE THAT HE IS IN POSSESSION OF A SET OF APPROVED FINAL CONSTRUCTION DOCUMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FILING A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGE TO THE KENTUCKY DIVISION OF WATER WITH A COPY TO LOUISVILLE MSD AND CARMAN. CONTRACTOR SHALL ALSO PERFORM INSPECTIONS AND KEEP ONSITE RECORDS OF INSPECTIONS AND MAINTENANCE OF EROSION CONTROL DEVICES AS DESCRIBED IN THESE PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EXISTING ASPHALT FREE FROM MUD, DIRT, DEBRIS, ETC. UNTIL DEMOLITION OCCURS.
- SILT FENCE, INLET PROTECTION AND CONSTRUCTION ENTRANCE SHALL BE INSTALLED AS INDICATED ON THE PLANS PRIOR TO MOBILIZATION OF THE SITE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF SILT FENCE AND REMOVAL OF SILTATION AS NECESSARY. SILT FENCE TO BE REINFORCED WITH WIRE MESH.
- AFTER SILT FENCE, CONSTRUCTION ENTRANCE AND INLET PROTECTION (FOR EXISTING INLETS TO REMAIN) HAVE BEEN INSTALLED AND APPROVED, PROCEED WITH TOPSOIL STRIPPING AND STOCKPILING. CONTRACTOR SHALL SURROUND STOCKPILES WITH SILT FENCE AND ESTABLISH A QUICK COVER SEED AS SOON AS POSSIBLE.
- THE CONTRACTOR SHALL PHASE CONSTRUCTION TO MINIMIZE THE AMOUNT OF DISTURBED AREA AT ANY ONE TIME, STABILIZE AND COVER WITH GRAVEL OR SEEDING AS QUICKLY AS POSSIBLE. USE ON-SITE CONTROLS AS NECESSARY TO PREVENT OFF SITE RUNOFF. EXTRA EFFORT SHOULD BE EXERCISED PRIOR TO WINTER OR RAINY SEASON TO HAVE ALL SITE CONTROLS IN PLACE.
- PERFORM ROUGH GRADING ON REMAINDER OF SITE.
- AFTER THE SILT FENCE HAS BEEN INSTALLED AND THE ROUGH GRADING HAS BEEN PERFORMED THE CONTRACTOR SHALL INSTALL ALL THE NECESSARY STORM PIPING AND STORM DRAINAGE PER THE GRADING AND DRAINAGE PLAN.
- INLET PROTECTION FOR THE STORM STRUCTURES SHALL BE INSTALLED UPON COMPLETION OF INSTALLATION OF THE STORM STRUCTURES AND REMAIN IN PLACE UNTIL THE PAVEMENT IS READY TO BE INSTALLED.
- CONTRACTOR SHALL COVER ALL AREAS TO BE PAVED WITH GRAVEL AS SOON AS POSSIBLE TO REDUCE DUST AND EROSION.
- CONTRACTOR SHALL DO FINISH GRADING AND TOPSOIL DISTRIBUTION IN NON-PAVED AREAS, SEEDING, SODDING AND MULCHING.
- CONTRACTOR SHALL MAINTAIN SITE AFTER ANY RAINFALL BY CLEANING SILT AND DEBRIS FROM STREETS, YARDS, ETC.
- CONTRACTOR SHALL INSPECT SITE DAILY AND IMMEDIATELY FOLLOWING A RAINFALL EVENT TO ENSURE THAT THESE STANDARDS ARE STILL IN EFFECT AND, IF NOT, THE CONTRACTOR SHALL TAKE ACTIONS TO REMEDIATE ANY AREAS THAT HAVE BEEN DISTURBED BY SILTATION OR EROSION.
- ALL WORK, CONSTRUCTION REQUIREMENTS, AND PERFORMANCE STANDARDS SHALL COMPLY WITH MSD STANDARDS.
- ALL TEMPORARY SEDIMENT CONTROL DEVICES SHALL BE REMOVED AT THE END OF CONSTRUCTION AFTER ALL AREAS ARE STABILIZED. THE AFFECTED AREAS ARE TO BE RETURNED TO THE CONTOURS PER THE GRADING PLAN.

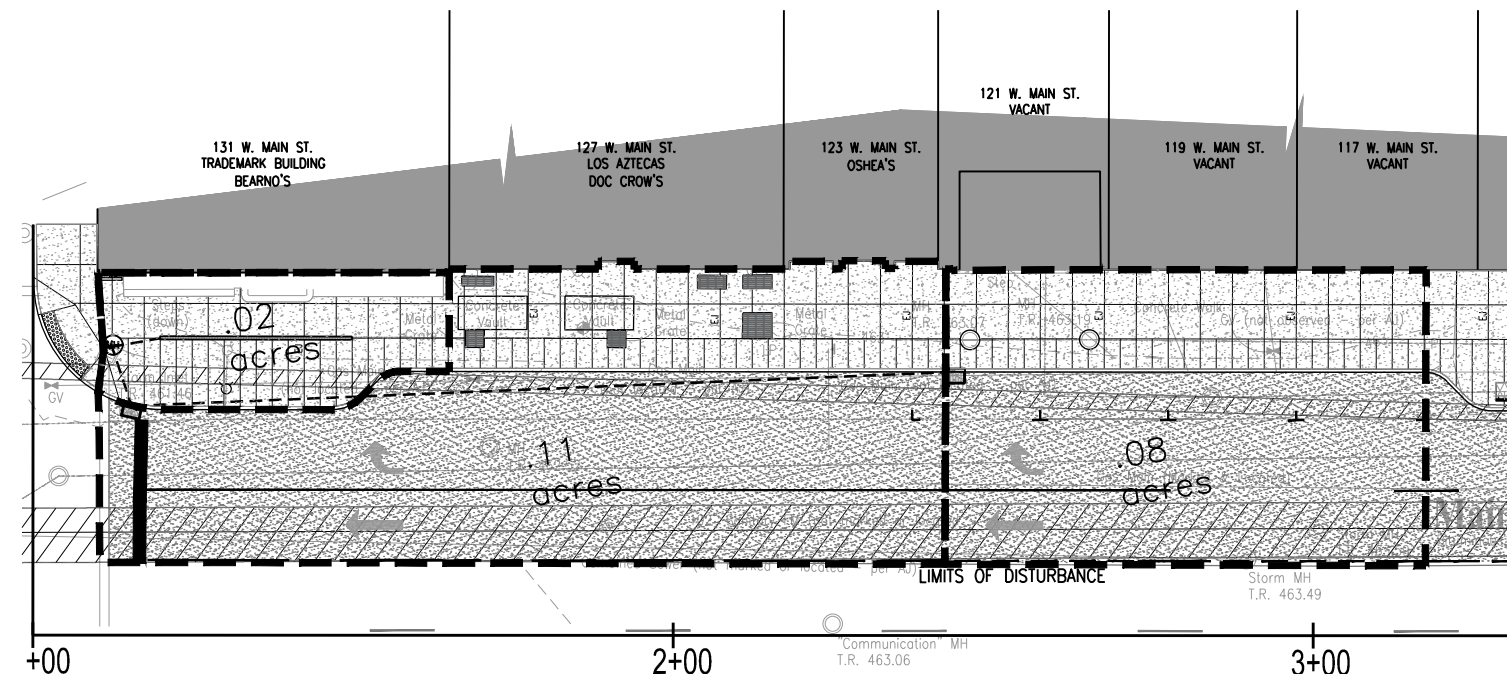
NOTICE:

- THESE EROSION PREVENTION AND SEDIMENT CONTROL MEASURES ARE INTENDED TO BE MINIMUM CONTROL MEASURES. ADDITIONAL FACILITIES SHALL BE INSTALLED AS NECESSARY AND MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE CONTRACT TO PREVENT EROSION AND SEDIMENTATION.
- IF SEDIMENT GETS INTO THE EXISTING STORM SEWERS, THE SEWERS SHALL BE CLEANED OF ALL SEDIMENT.

PROPERTY ACCESS DURING CONSTRUCTION

- THE CONTRACTOR SHALL MAINTAIN AND/OR PROVIDE ACCESS TO ALL BUSINESSES DURING DEMOLITION AND CONSTRUCTION THROUGHOUT THE PROJECT BY MEANS OF TEMPORARY SIDEWALK "CROSSINGS" THAT WILL ALLOW ACCESS INTO BUSINESSES. APPROPRIATE BARRIERS, SIGNAGE AND WARNINGS SHALL BE PROVIDED THAT INFORMS THE PUBLIC OF PROPER ACCESS DURING CONSTRUCTION.
- PRIOR TO WORK OCCURRING AT EACH BUSINESS WITHIN THE WORK AREA, EACH PROPERTY OWNER / BUSINESS SHALL BE INFORMED OF THE PENDING WORK AND THE SCHEDULE OF TASKS. WORK SHALL BE PERFORMED IN PHASES THAT MINIMIZE DISRUPTION IN EACH AREA OF THE PROJECT.
- CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE PROTECTION OF THE WORK IN THE AREA OF EACH BUSINESS DURING CONSTRUCTION.

TOTAL AREA OF IMPROVEMENTS:
20,098 SF = .46 ACRES



B DRAINAGE AREAS

10 YEAR STORM

No.	Str. No.	LINE	AREA (Ac)	C	T _c (min)	i (in/hr)	Q (cfs)	INLET NO.	PIPE	PIPE SLOPE (%)	n	LENGTH (ft)	PIPE SHAPE	PIPE SIZE (in.)	V (fps)	Q FULL (cfs)	V FULL (fps)
1	CB1	A	0.08	0.95	10.0	5.30	0.40	CB1	P1	1.15	0.013	129.00	Circular	12	3.15	3.82	4.86
2	CB2	A	0.11	0.95	10.0	5.30	0.58	CB2	P2	2.22	0.013	9.00	Circular	12	5.15	5.31	6.76
3	TD1	B	0.02	0.95	10.0	5.30	0.13	TD1	P3	5.00	0.013	7.00	Circular	6	4.09	1.25	6.39

100 YEAR STORM

No.	Str. No.	LINE	AREA (Ac)	C	T _c (min)	i (in/hr)	Q (cfs)	INLET NO.	PIPE	PIPE SLOPE (%)	n	LENGTH (ft)	PIPE SHAPE	PIPE SIZE (in.)	V (fps)	Q FULL (cfs)	V FULL (fps)
1	CB1	A	0.08	0.95	10.0	7.20	0.54	CB1	P1	1.15	0.013	129.00	Circular	12	3.44	3.82	4.86
2	CB2	A	0.11	0.95	10.0	7.20	0.78	CB2	P2	2.22	0.013	9.00	Circular	12	5.62	5.31	6.76
3	TD1	B	0.02	0.95	10.0	7.20	0.17	TD1	P3	5.00	0.013	7.00	Circular	6	4.47	1.25	6.39

GRADING & DRAINAGE NOTES

- ALL SPOT ELEVATIONS INDICATE FINISH GRADE OF SURFACE. ADJUSTMENTS MUST BE MADE TO ESTABLISH GRADES OF SUB-BASE OR SUBGRADE. SPOT ELEVATIONS ARE INCLUSIVE OF ANY LANDSCAPE MULCH REQUIRED.
- PRIOR TO CONSTRUCTION OR DEMOLITION, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING UTILITIES SO THAT NEW CONSTRUCTION WILL NOT DAMAGE OR INTERFERE WITH EXISTING UTILITY LINES. SHOULD DAMAGE OCCUR, IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR AND/OR REPLACE SAID DAMAGE AT THE CONTRACTOR'S EXPENSE. FINISHED REPAIRS OR REPLACEMENT SHALL MEET THE APPROVAL OF THE OWNER.
- ALL EXCESS EXCAVATED MATERIAL IS TO BE REMOVED FROM THE SITE. UNLESS OTHERWISE NOTED, ALL TREES AND VEGETATION SHALL BE PROTECTED DURING CONSTRUCTION. ALL VEGETATION, ROOTS, TREES, ETC. TO BE REMOVED SHALL BE REMOVED TO A MINIMUM DEPTH OF THREE FEET BELOW FINISHED GRADE. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS NOT TO DAMAGE FOLIAGE, BRANCHES OR ROOTS OF EXISTING TREES TO BE SAVED. NO BURNING ON SITE.
- BEFORE STARTING SITE EXCAVATION, CONTRACTOR SHALL STRIP ANY TOPSOIL FROM DEVELOPED PORTIONS OF THE SITE AND STORE IN A LOCATION THAT WILL NOT INTERFERE WITH SITE DEVELOPMENT OPERATIONS. CONTRACTOR SHALL BE RESPONSIBLE FOR REDISTRIBUTING TOPSOIL IN ALL FINISHED GRADE AREAS, BACK FILLING CURBS, SIDEWALKS, ETC. TOPSOIL SHALL NOT BE DISTRIBUTED WHEN WET OR OVER COMPACTED.
- CONTRACTOR SHALL PROVIDE ENGINEER WITH COMPACTION TESTING FROM AN INDEPENDENT TESTING AGENCY.
- ELEVATIONS AND CONTOURS ON THIS PLAN ARE REFERENCED TO MEAN SEA LEVEL DATUM.
- MINIMUM 12" CRUSHED STONE BACKFILL OVER STORM PIPING. STORM PIPING UNDER PAVED SURFACES TO BE BACKFILLED FULL DEPTH WITH CRUSHED STONE.
- IT SHALL BE THE CONTRACTOR'S SOLE RESPONSIBILITY TO VERIFY IF ROCK EXCAVATION FOR MASS GRADING OR TRENCHING IS REQUIRED. ALL EXCAVATION IS UNCLASSIFIED. THERE WILL BE NO PAYMENT FOR ROCK EXCAVATION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE EXCAVATION QUANTITIES.
- IT IS THE DESIGN INTENT FOR ALL WATER TO BE DIRECTED AWAY FROM THE PROPOSED AND EXISTING BUILDINGS.
- BORROWED FILL MATERIALS ARE TO BE APPROVED BY THE GEOTECHNICAL ENGINEER PRIOR TO USE ON THIS SITE.
- CONTRACTOR TO LOCATE STOCKPILING OF SOILS IN THE STAGING AREA. WHEN THE CONTRACTOR HAS SELECTED THE LOCATION HE/SHE IS TO CONTACT THE ENGINEER TO VALIDATE THE LOCATION IS APPROPRIATE.
- ALL DISTURBED GRADE AREAS TO BE SODDED AT COMPLETION OF PROJECT.
- IF ANY EXISTING ASBESTOS COATED SEWER LINE IS UNEARTHED, IT WILL REQUIRE ABATEMENT IN ACCORDANCE WITH CURRENT EPA GUIDELINES.
- ALL CONSTRUCTION AND MATERIALS INSTALLED WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE KENTUCKY STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- CONTRACTOR SHALL ENSURE ALL PROPOSED IMPROVEMENTS MEET AND MATCH EXISTING AND/OR ADJACENT CONDITIONS. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER UPON ANY DISCREPANCY WHICH WILL DETER ADHERENCE TO THIS CONDITION.

GRADING LEGEND

+4XX	PROPOSED SPOT ELEVATION
+4XX	EXISTING SPOT
4XX	PROPOSED CONTOUR
--- 4XX ---	EXISTING CONTOUR
tc	TOP OF CURB
bc	BOTTOM OF CURB
cb	CATCH BASIN
rim	RIM ELEVATION

CODED NOTES

KEY	DESCRIPTION
1	NEW SINGLE CURB INLET PER MSD STANDARD DWG. # D-01-02. DETAIL A/SD4.1
2	ALL EXISTING UTILITY MANHOLE LIDS, METER COVERS, CLEANOUTS, ETC. SHALL BE ADJUSTED AS NECESSARY TO MATCH NEW FINISH GRADE.
3	SLOPE CONCRETE CURB AT INCH PER FOOT OR AS INDICATED TO MEET AND MATCH ADJACENT GRADES.
4	HEAVY DUTY CAST IRON TRENCH GRATE BY IRONSMITH - REFER TO DETAIL H/SD5.0
5	CONSTRUCT STD. MANHOLE FRAME AND LID W/ TYPE 4 COLLAR (MSD STD DWG 6M-05-03) OVER EX. TRAPPED CURB CATCH BASIN*; CORE HOLE FOR 6" PIPE I.E. 57.00; CORE HOLE FOR 12" PIPE I.E. 56.50; ENSURE HOLES ARE DRILLED IN CONCRETE PORTION OF THE CATCH BASIN AND NOT THE BRICK AND THAT IT DOES NOT IMPACT THE OUTLET PIPE TO 30" COMBINED SEWER
6	130 LF 12" RCP SLOPE AT 1.0%
7	10 LF 12" RCP SLOPE AT 2.0%
8	8 LF 6" STEEL PIPE SLOPE AT 0.5%
9	NEW SINGLE CURB INLET PER MSD STANDARD DWG #D-01-02. REFER TO NEW STORM STRUCTURE NOTE THIS SHEET. CONTRACTOR SHALL CONNECT INTO EXISTING STRUCTURE AS JUNCTION TO STORM. NOTIFY DESIGN ENGINEER IF EXISTING CONDITIONS PREVENT COMPLIANCE WITH PROPOSED IMPROVEMENTS. APPLY INLET PROTECTION ONCE INLET IS INSTALLED.
10	INSTALL 6" VERTICAL STEEL PIPE END OF TRENCH DRAIN; CONNECT DOWNSTREAM TO STEEL PIPE WITH 45 DEGREE ELBOW

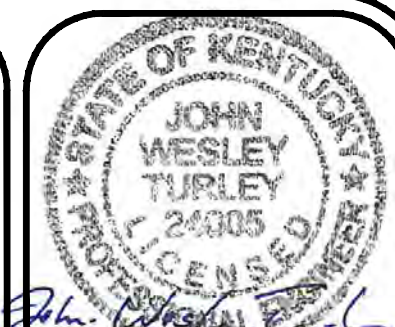
*NOTE: EXISTING 2"x2" TRAPPED CATCH BASIN TIES INTO 30" COMBINED SEWER SYSTEM. NEWLY INSTALLED CURB INLETS ARE NOT REQUIRED TO BE TRAPPED PER MSD.

UTILITY NOTE

ALL UTILITIES ON THESE PLANS ARE APPROXIMATE. INDIVIDUAL SERVICE LINES ARE NOT SHOWN. THE CONTRACTOR OR SUBCONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER KENTUCKY 811 (TOLL FREE PHONE NO. 1-800-752-6007 OR LOCAL NO. 502-266-5123) FORTY-FOUR (48) HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. THIS NUMBER WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF EXISTING BELOW GROUND UTILITIES (I.E. CABLES, ELECTRIC WIRES, GAS & WATER LINES). WHEN CONTACTING THE KENTUCKY 811 CALL CENTER, PLEASE STATE THE WORK TO BE DONE IS FOR A PROPOSED MSD SEWER OR DRAINAGE FACILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING FAMILIAR WITH ALL UTILITY REQUIREMENTS SET FORTH ON THE PLANS AND IN THE TECHNICAL SPECIFICATIONS & SPECIAL PROVISIONS.



FOR LOCATION OF UNDERGROUND UTILITIES, CALL B.U.D. 1-800-752-6007 (2) WORKING DAYS IN ADVANCE OF DIGGING



GRADING & EPSC PLAN

MAIN STREET IMPROVEMENTS

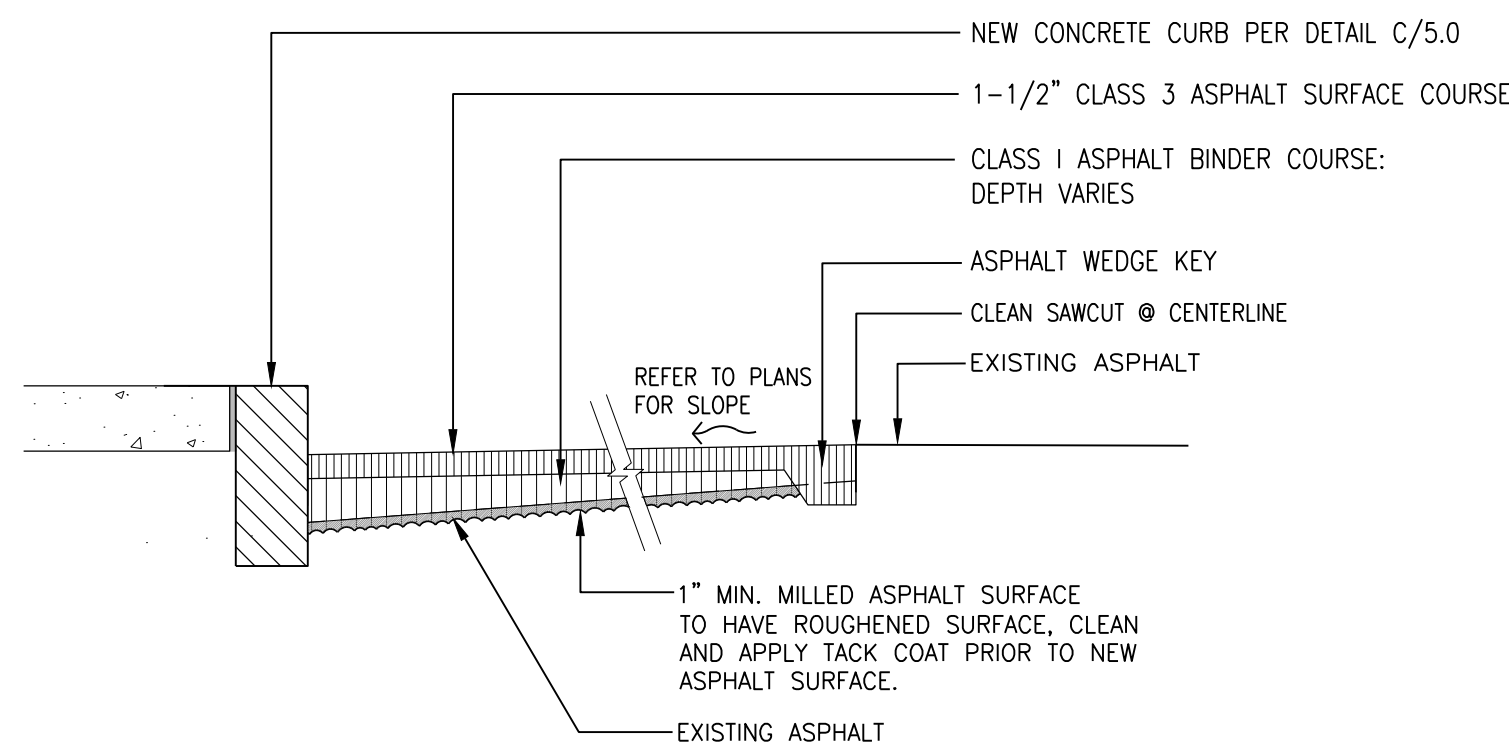
LOUISVILLE DOWNTOWN PARTNERSHIP
556 SOUTH FOURTH STREET
LOUISVILLE, KY 40202



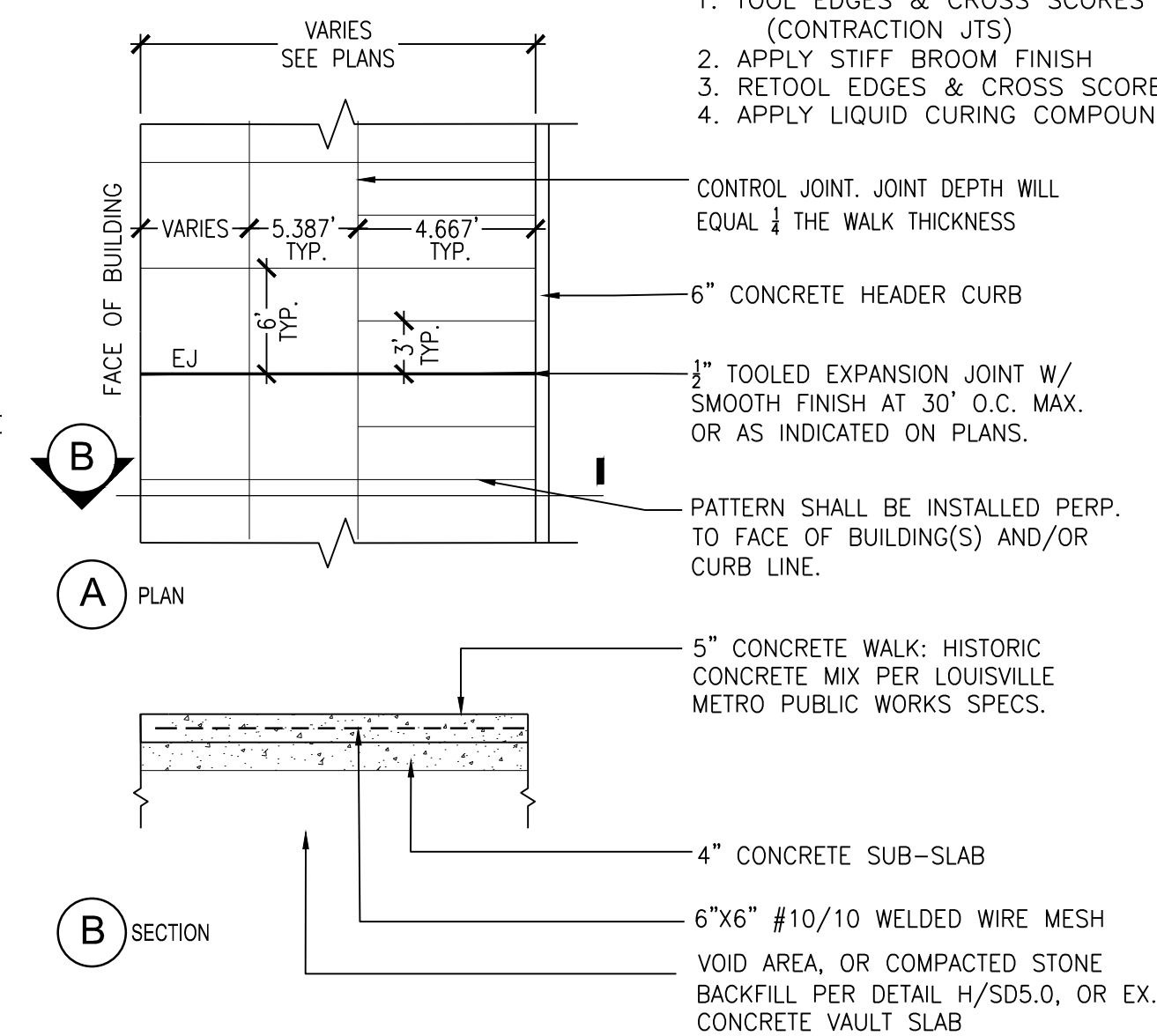
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DATE 5/4/2015
CHECKED JLC
REVISED
JLC # 15-107

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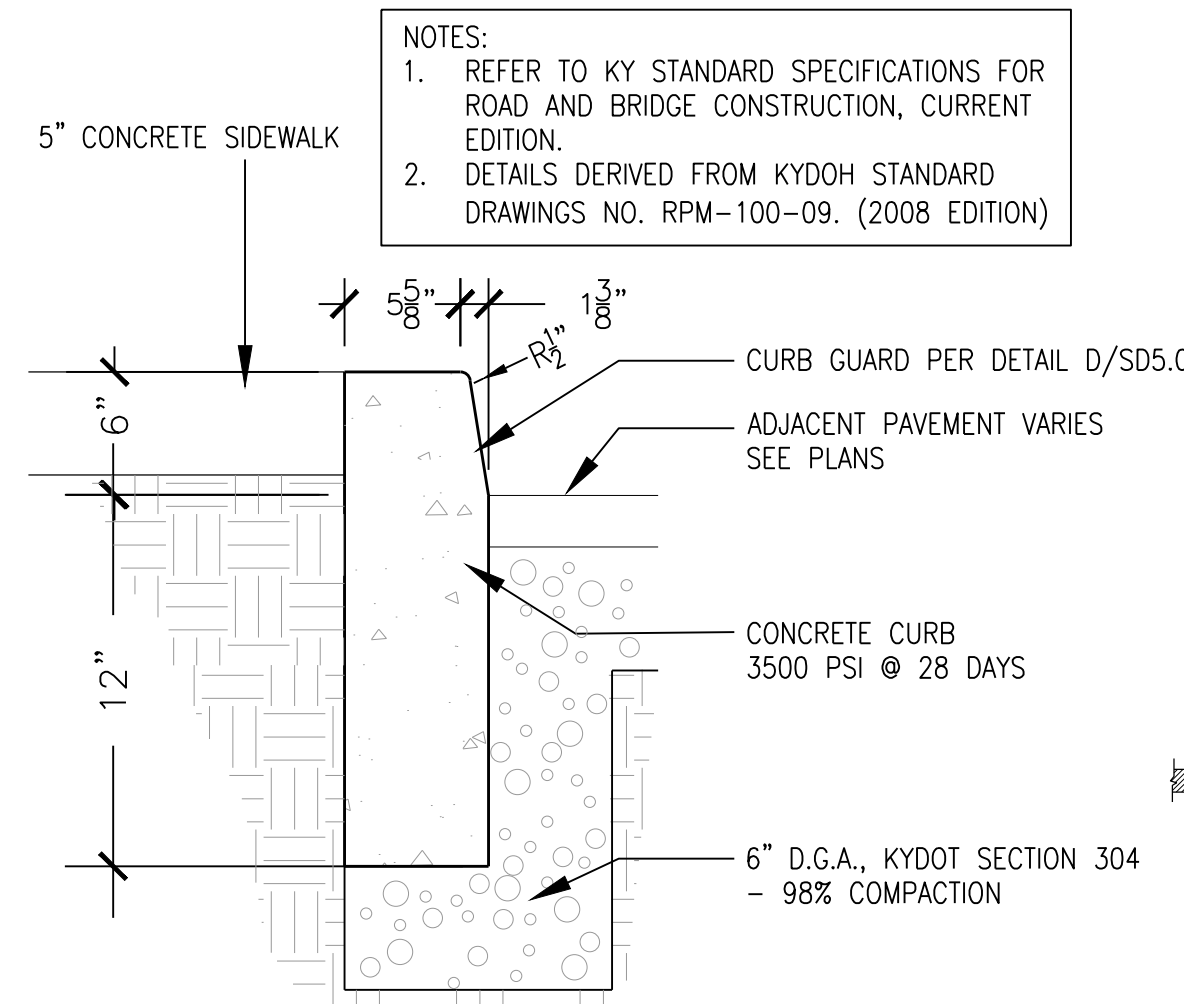
SD4.0



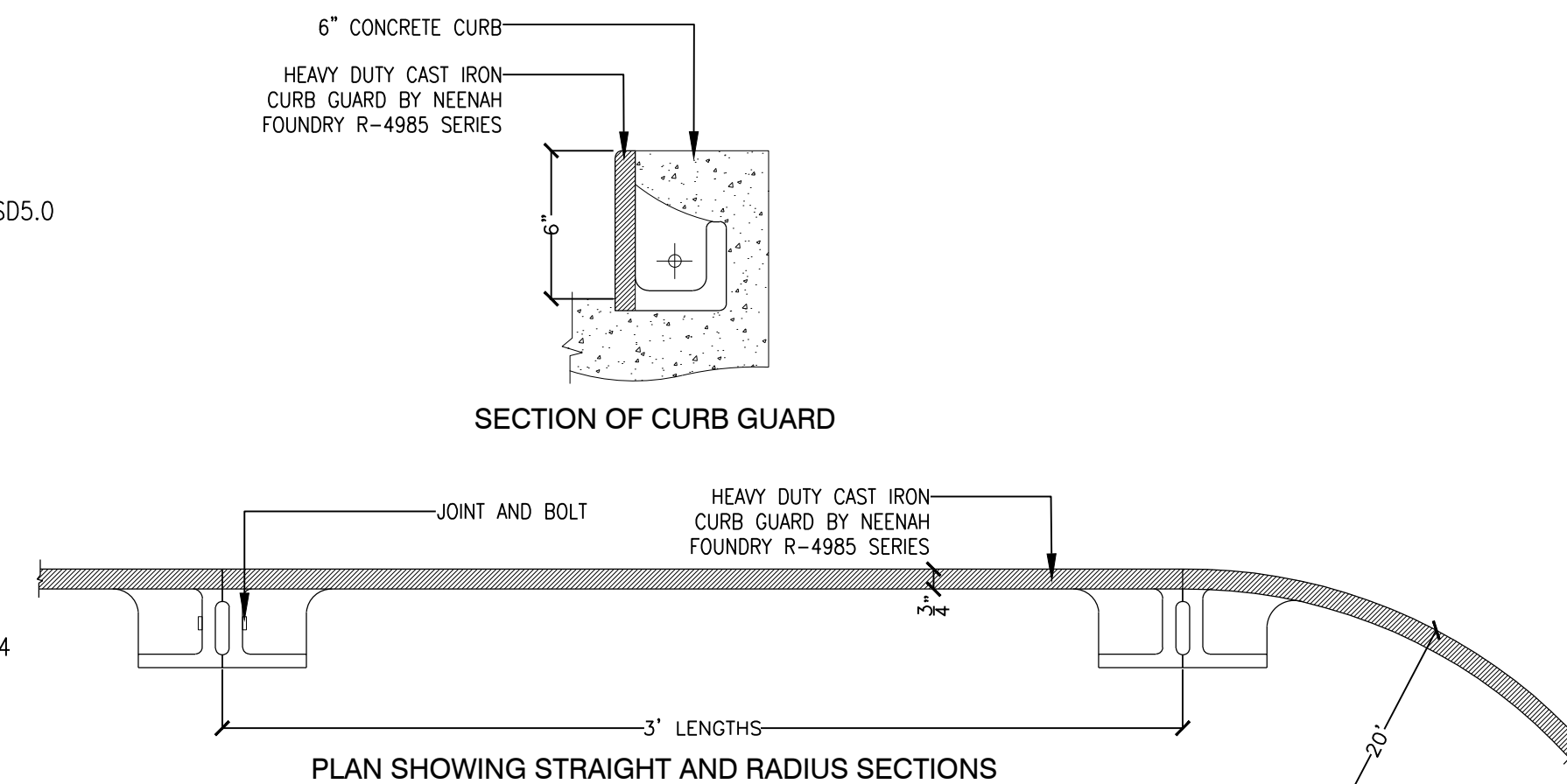
A ASPHALT PAVEMENT OVERLAY SECTION
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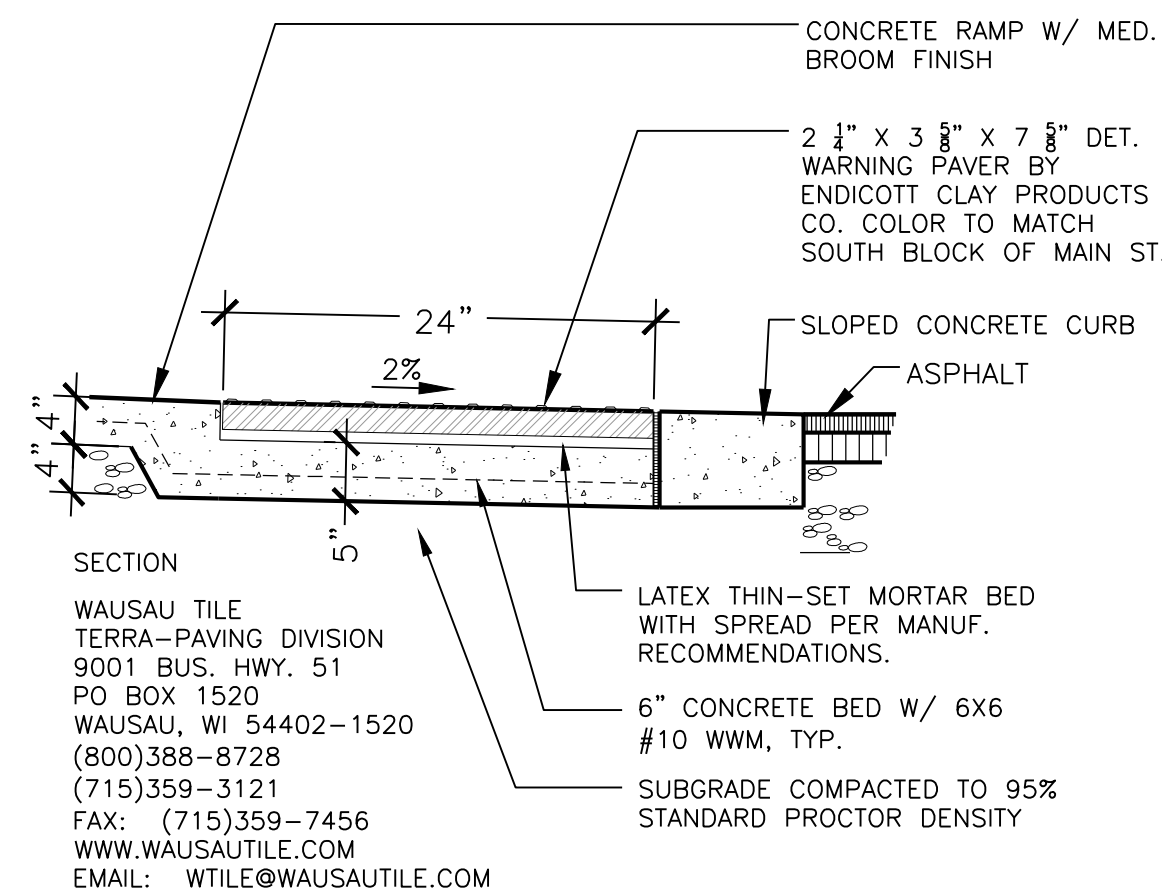
B CONCRETE SIDEWALK, TYP.
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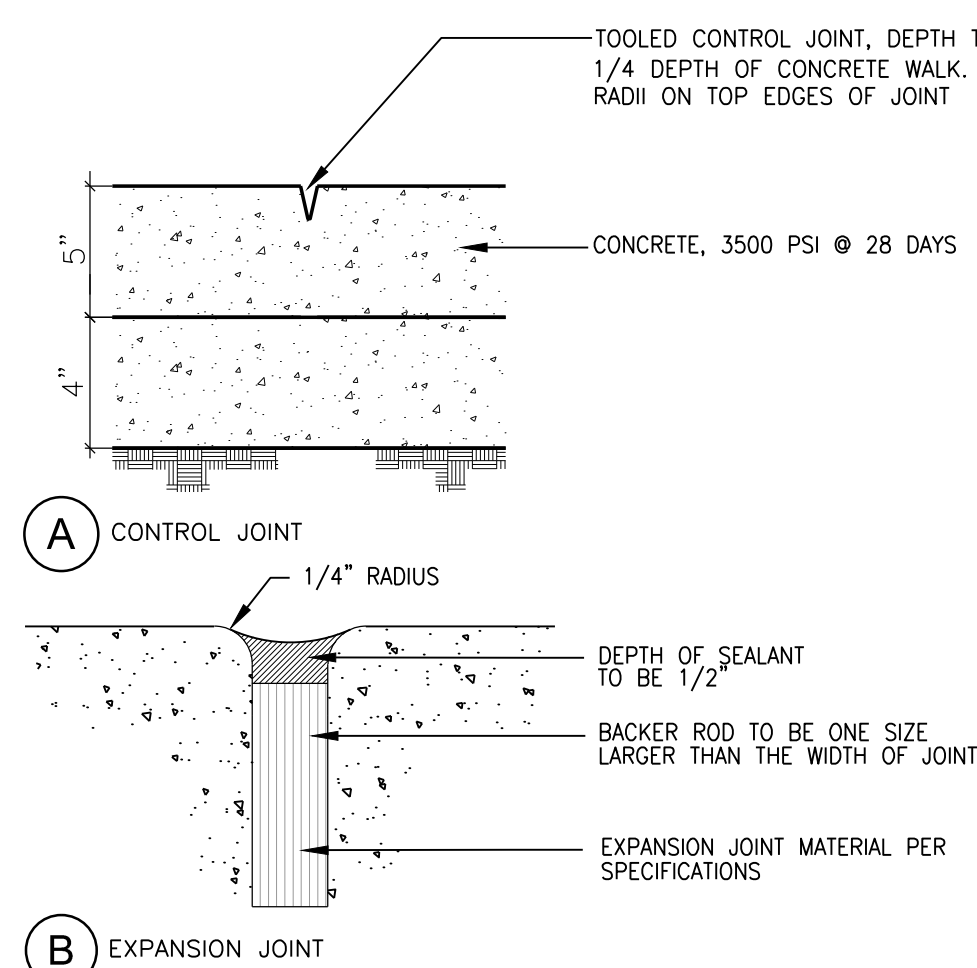
C CONCRETE HEADER CURB
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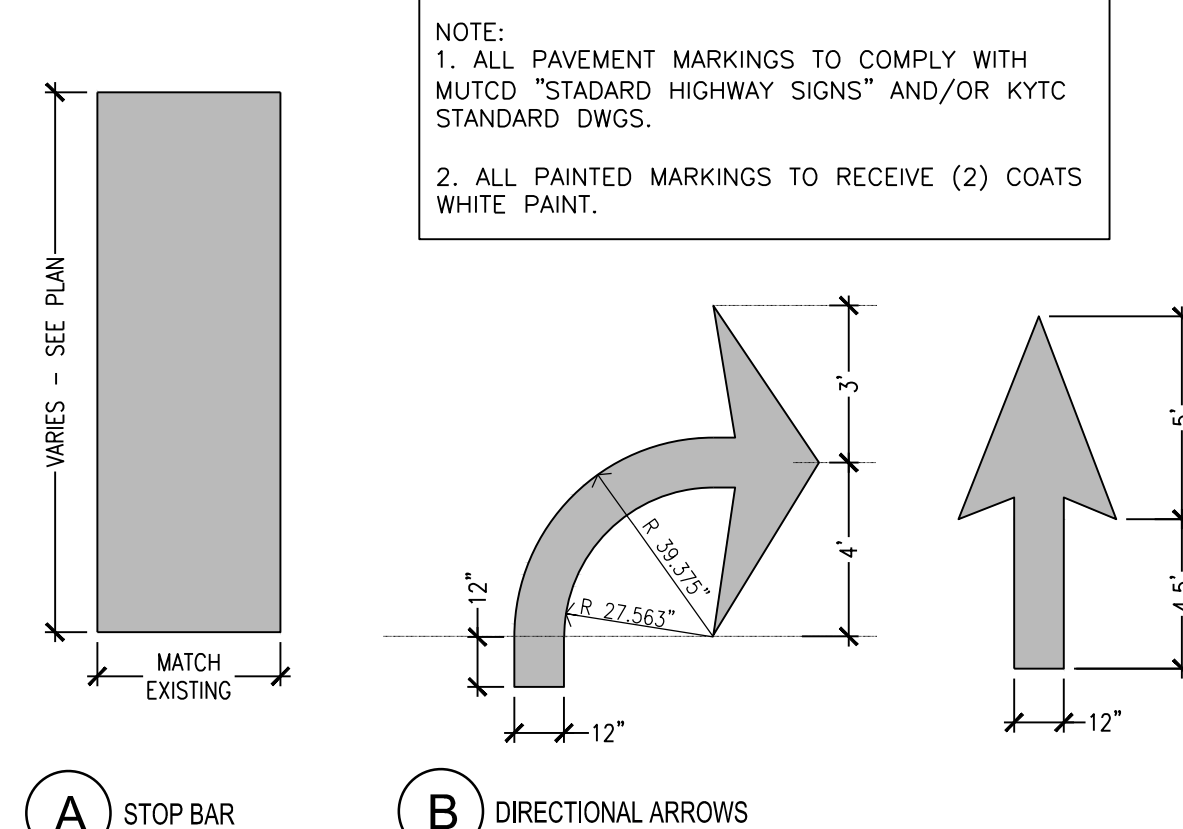
D CAST IRON CURB GUARD
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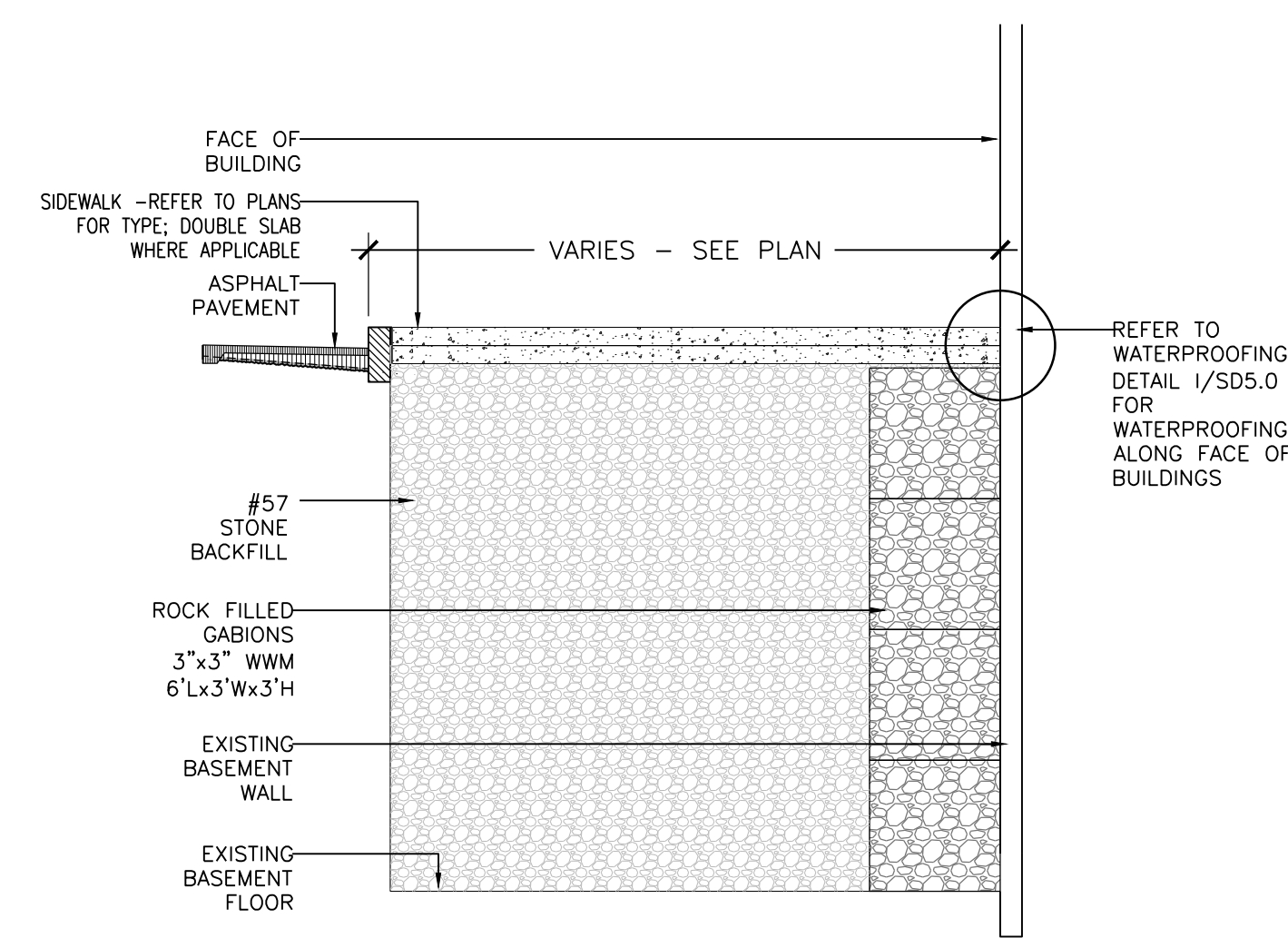
E TACTILE WARNING PAVERS
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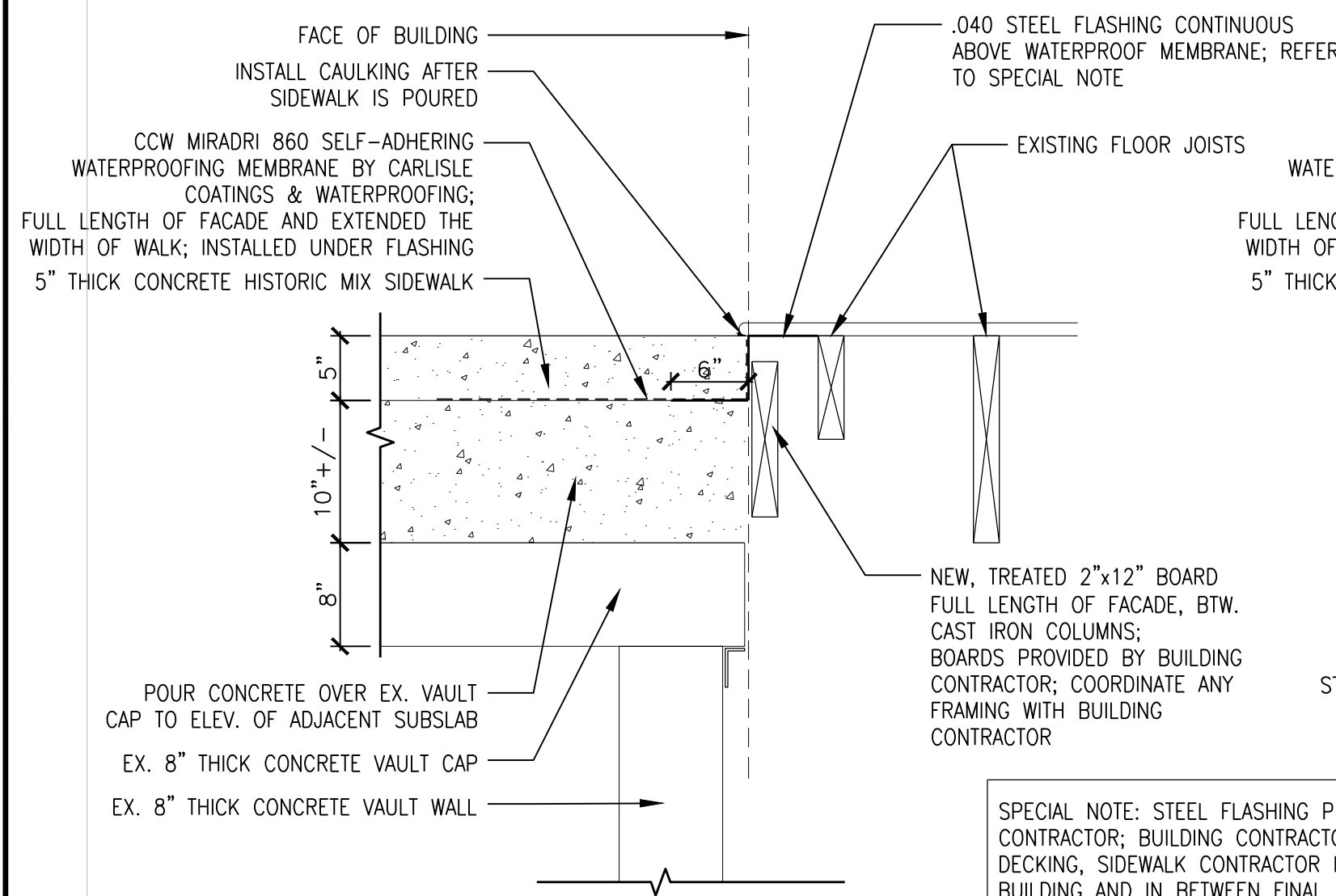
F CONCRETE JOINTS
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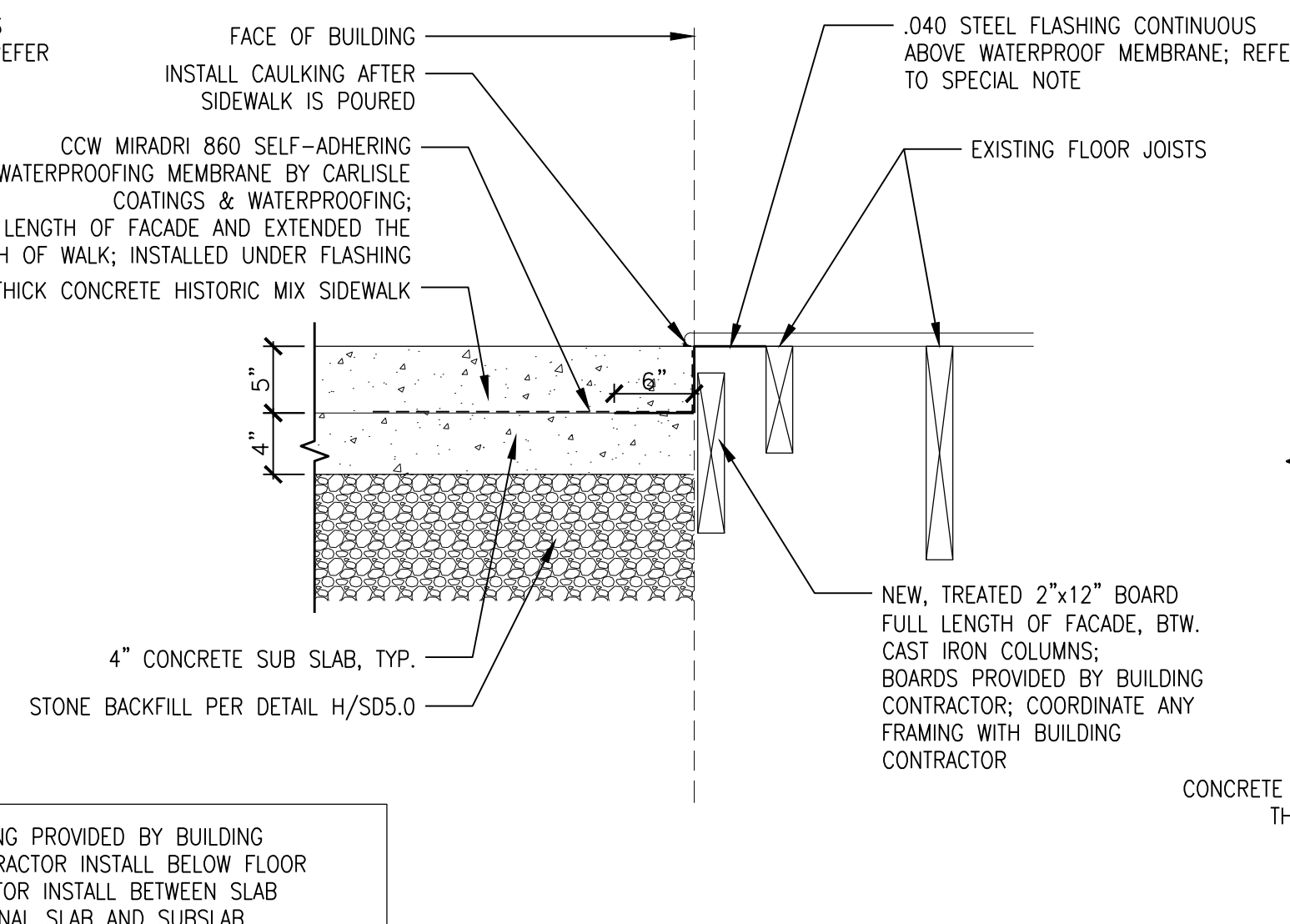
G PAVEMENT APPLIED GRAPHICS
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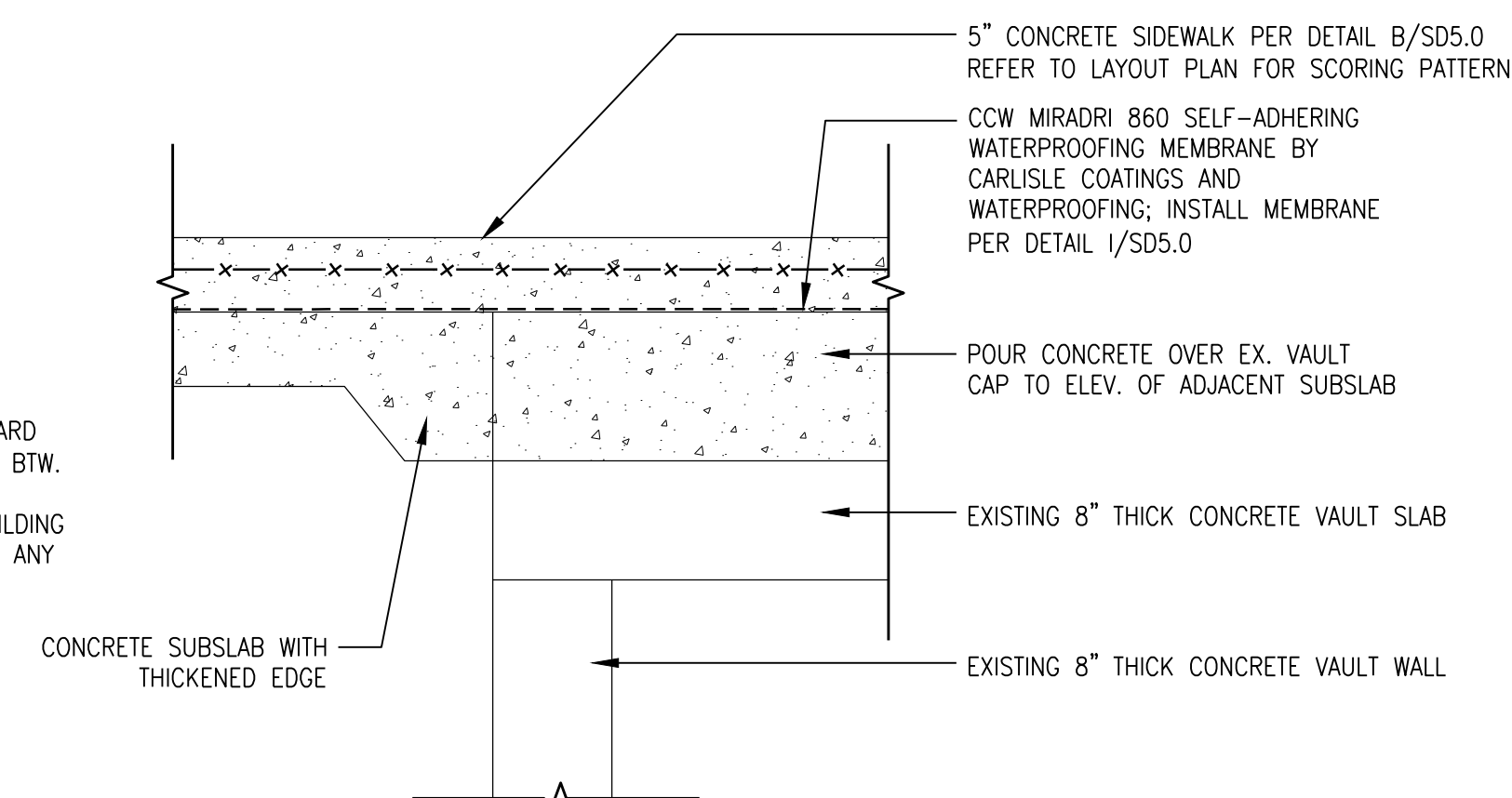
H GABION BASKETS AT BASEMENT OPENINGS
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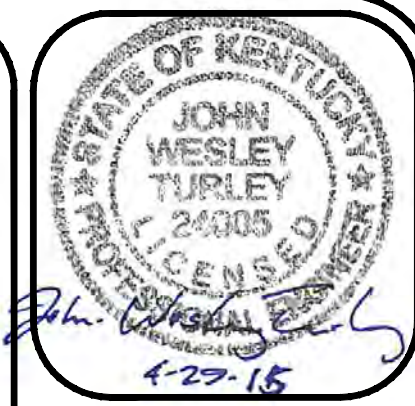
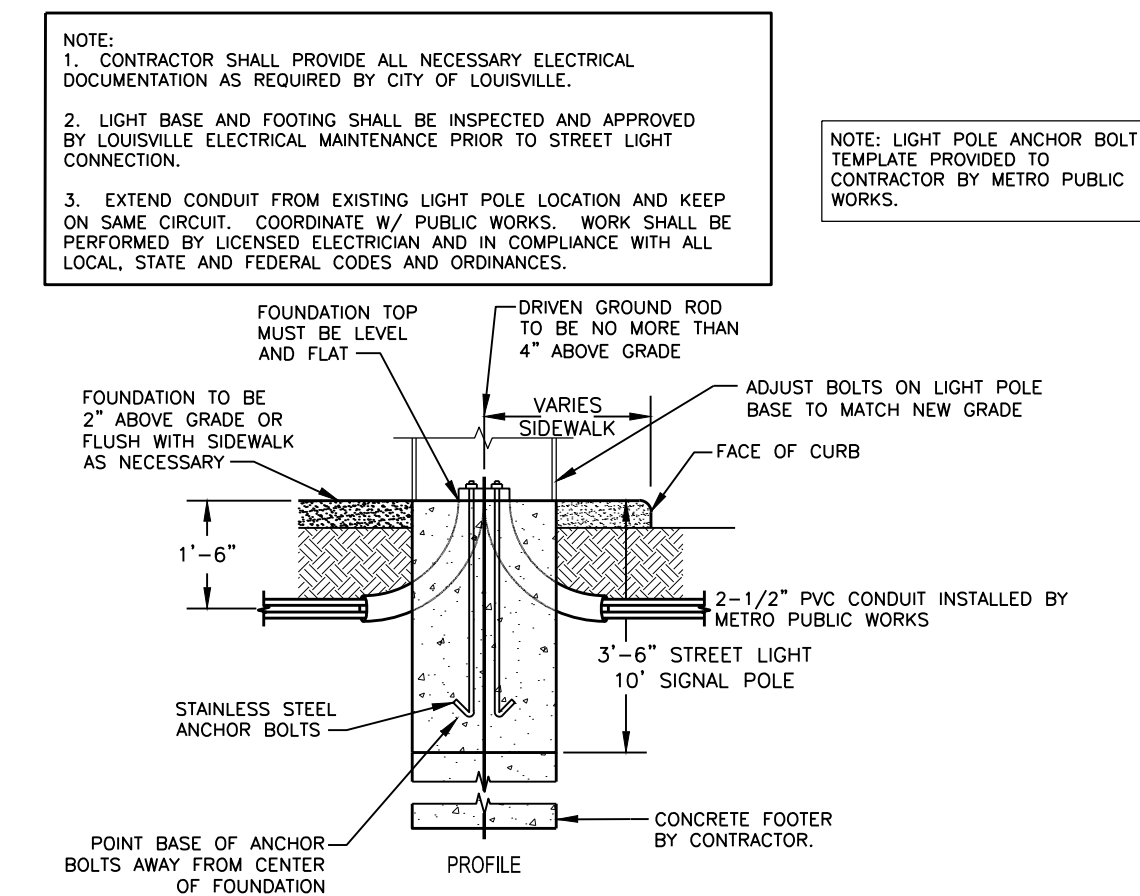
I WATERPROOFING @ BUILDINGS
SCALE: NTS



J THICKENED CONCRETE AT EDGE OF VAULT
SCALE: NTS



K LIGHT BASE AND FOOTING
SCALE: NTS



DETAILS

MAIN STREET IMPROVEMENTS

LOUISVILLE DOWNTOWN PARTNERSHIP
556 SOUTH FOURTH STREET
LOUISVILLE, KY 40202

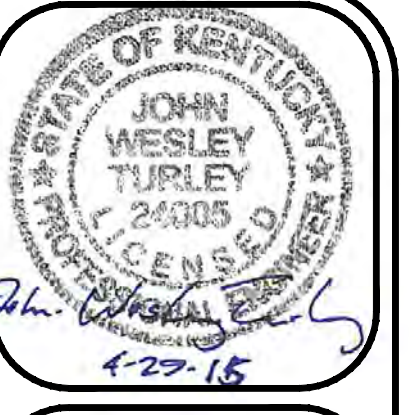


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DATE 5/4/2015
CHECKED JLC
REVISED
JLC # 15-107

SHEET

SD-5.0

FOR LOCATION OF UNDERGROUND UTILITIES, CALL B.U.D.
1-800-752-6007 (2) WORKING DAYS IN ADVANCE OF DIGGING



CROSS SECTIONS

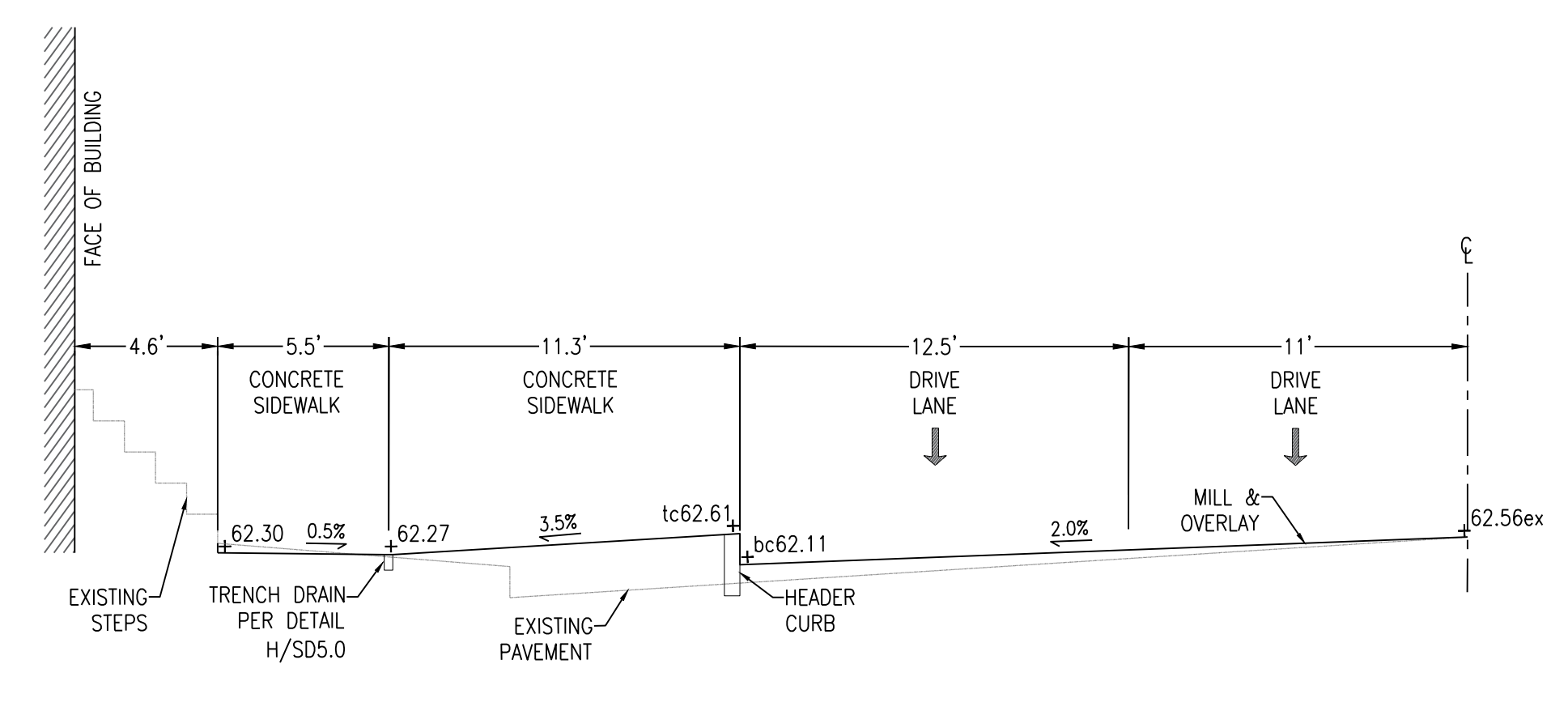
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LOUISVILLE DOWNTOWN PARTNERSHIP
556 SOUTH FOURTH STREET
LOUISVILLE, KY 40202



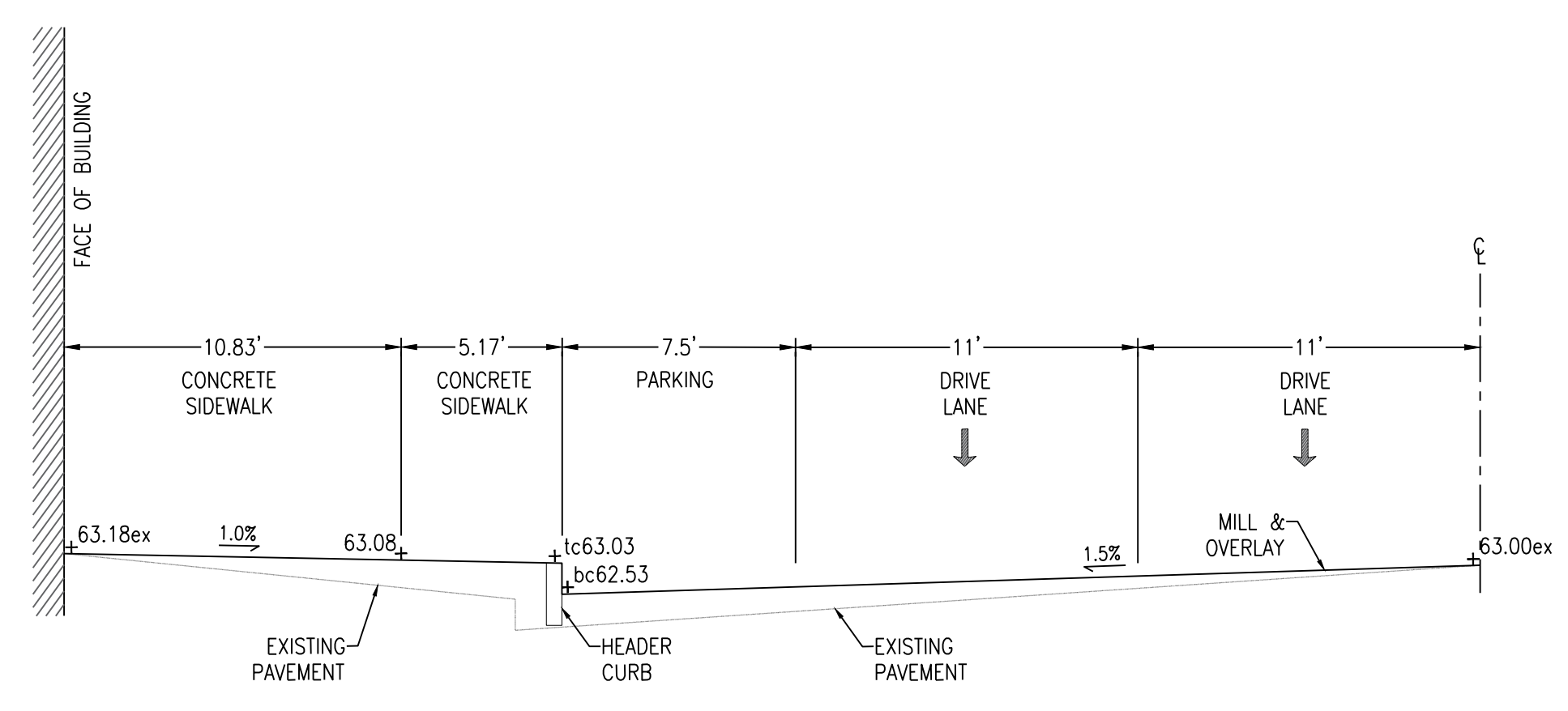
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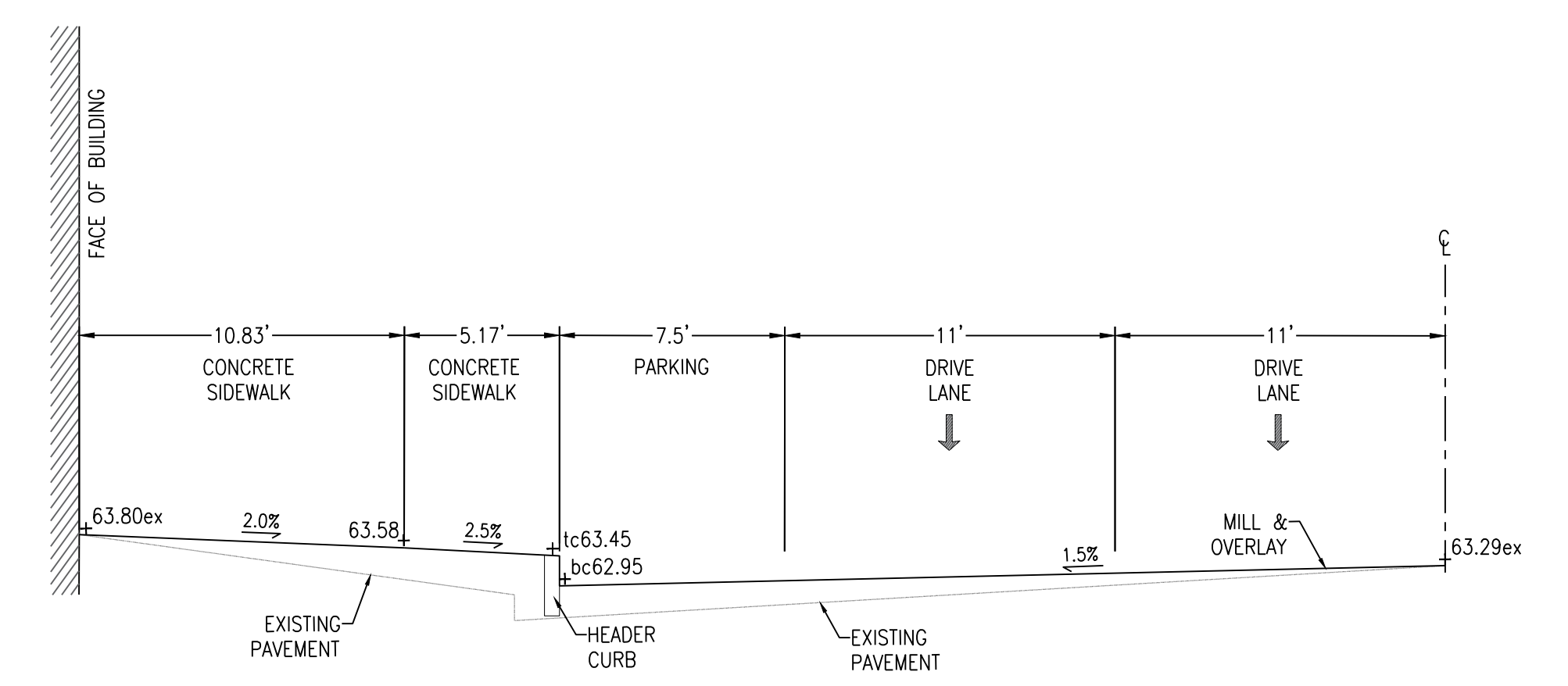
SD5.1



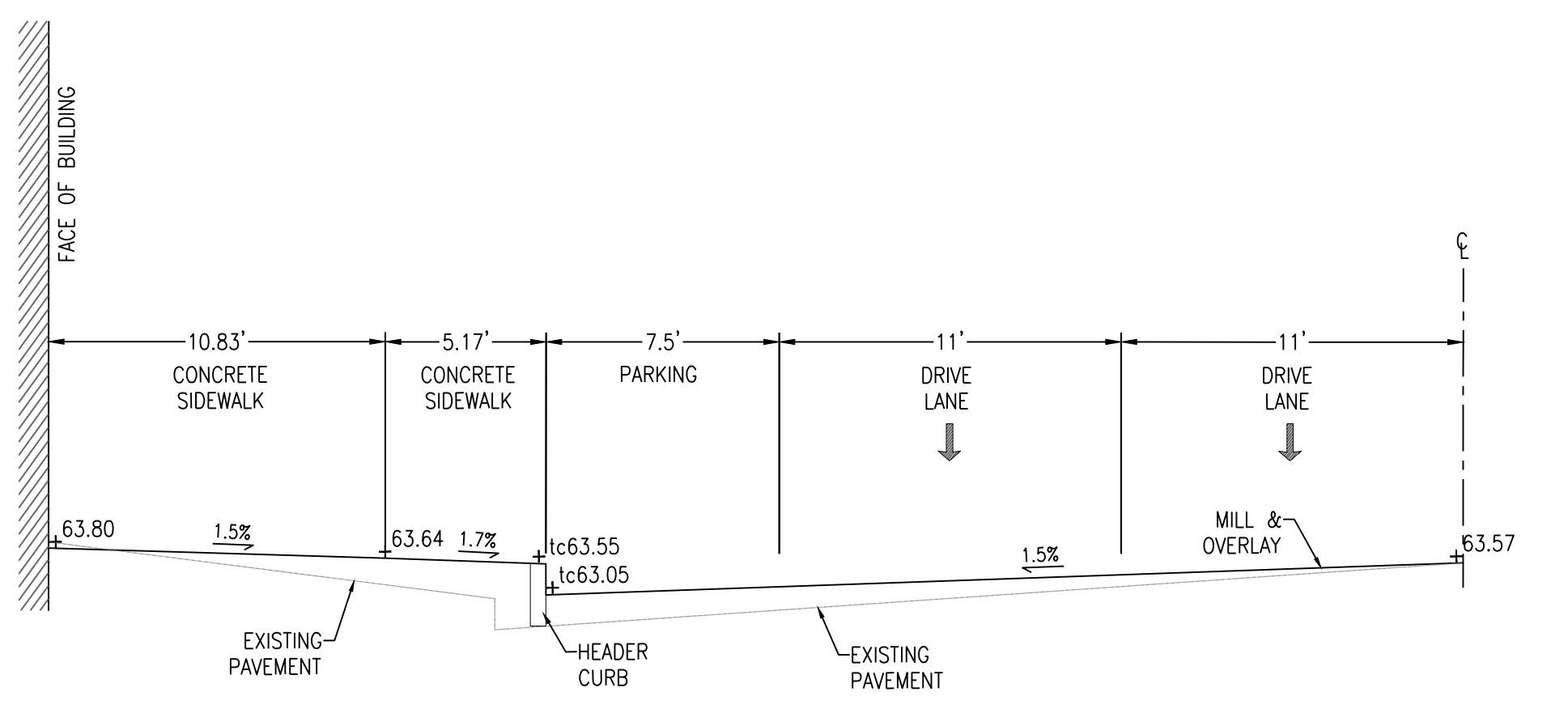
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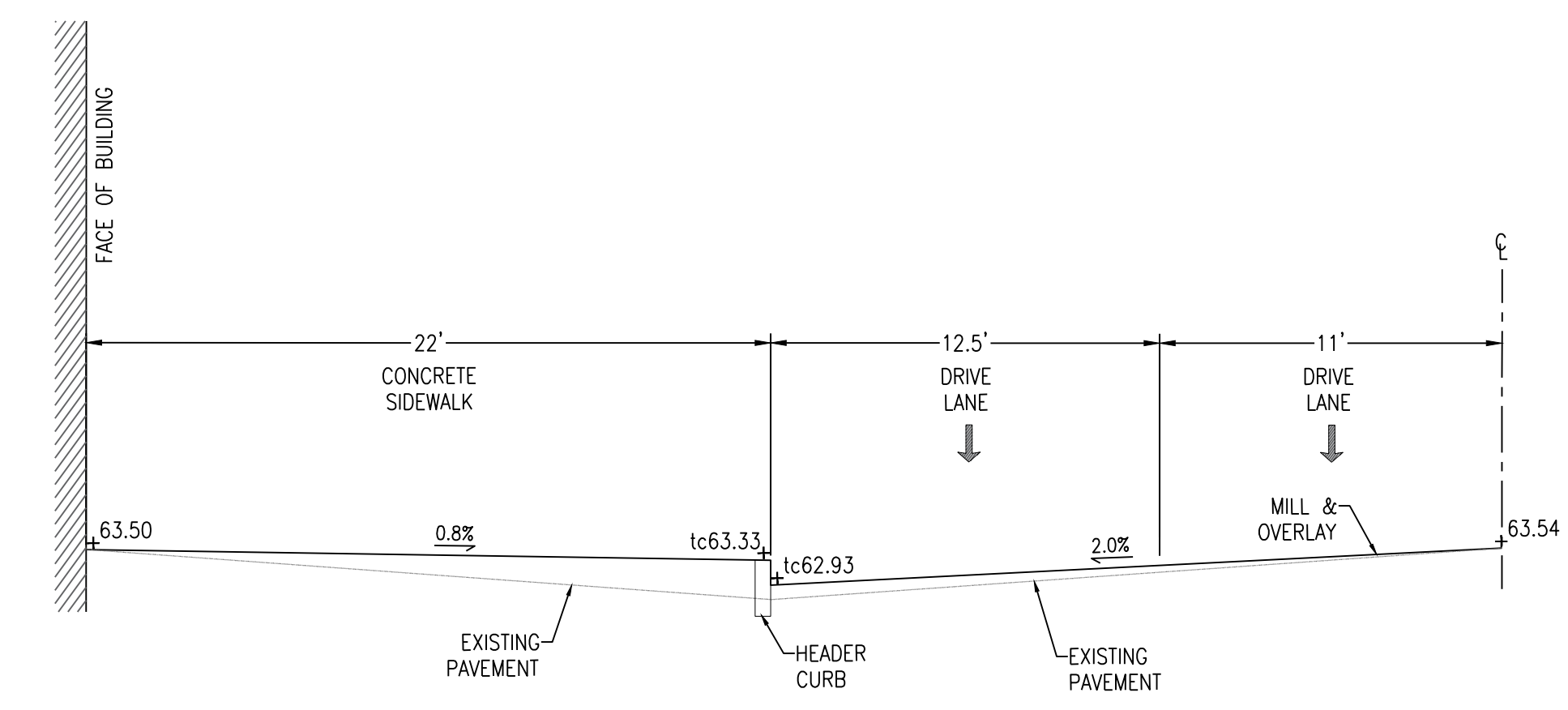
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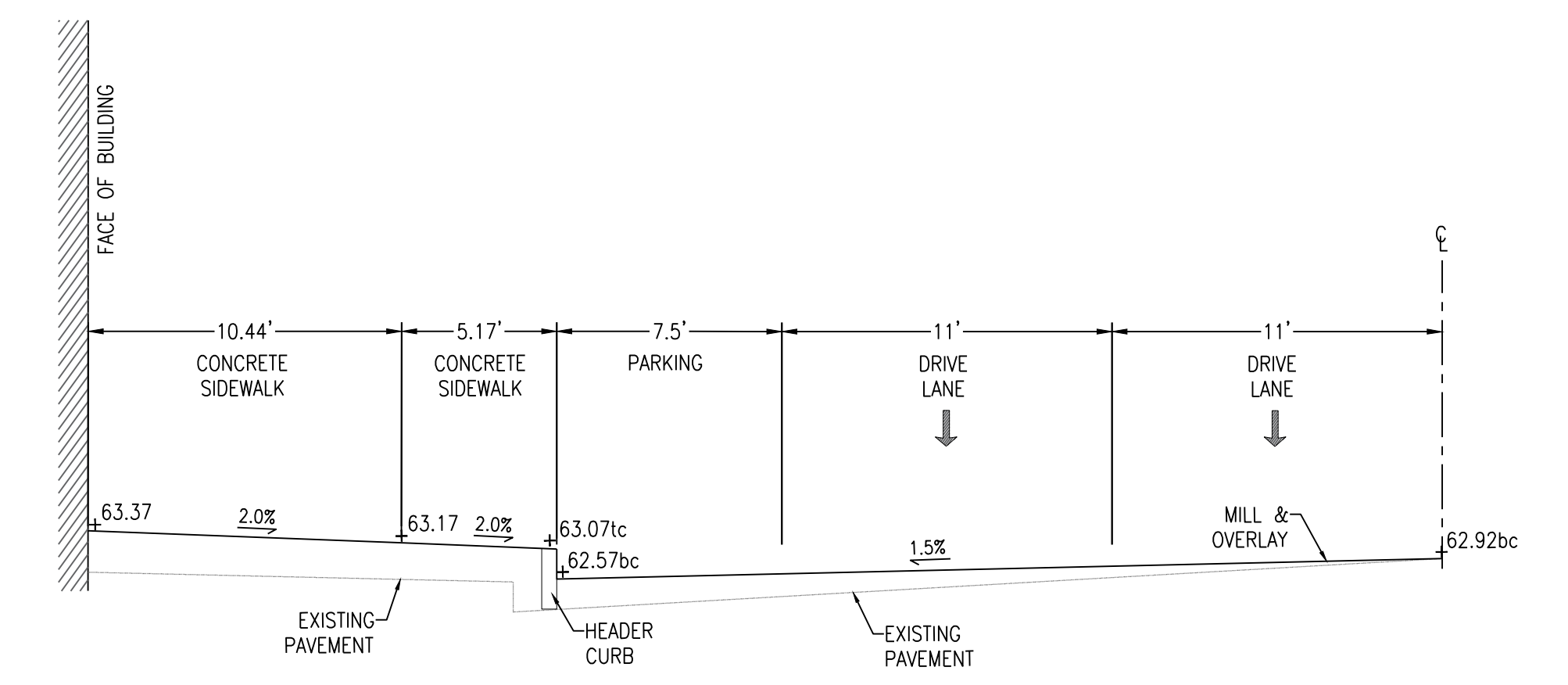
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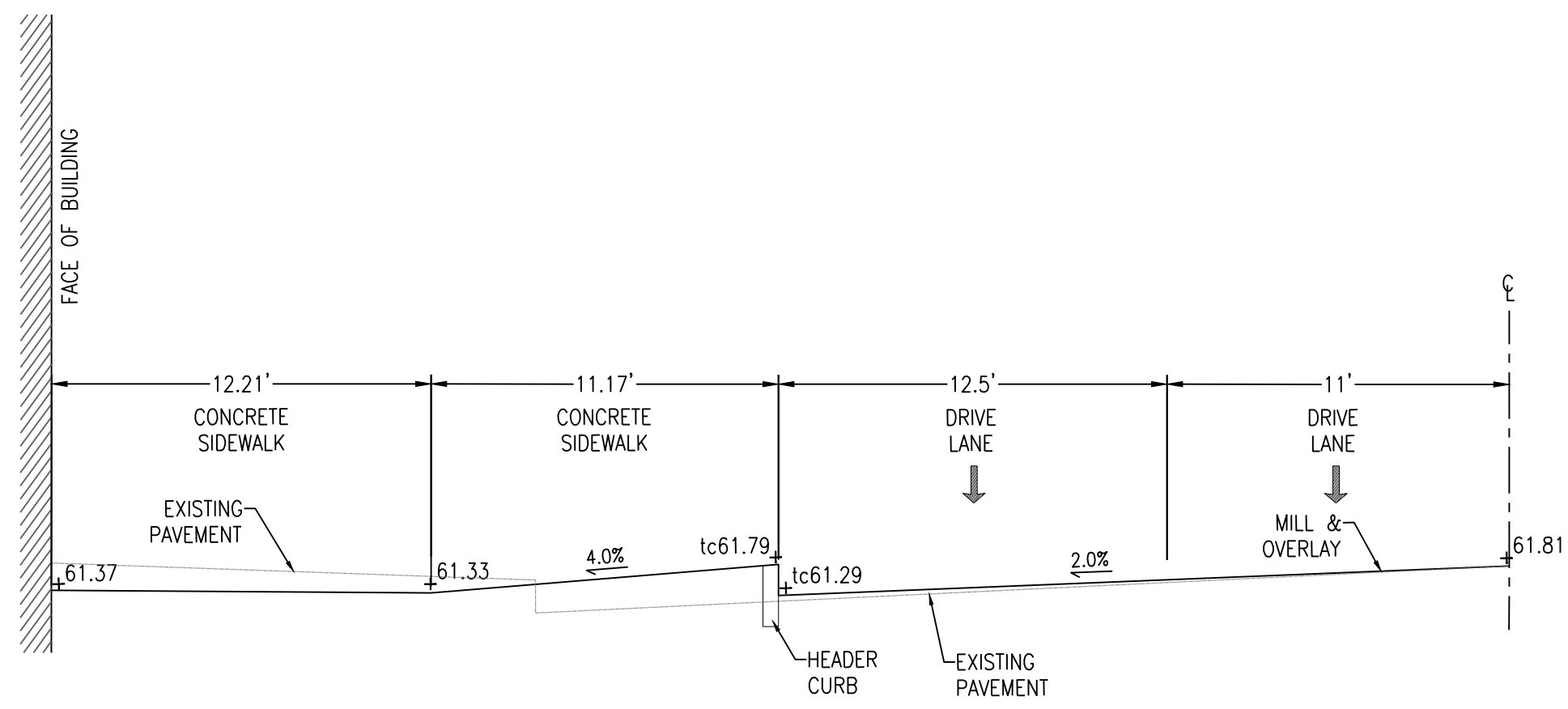
D STATION 2+73.37



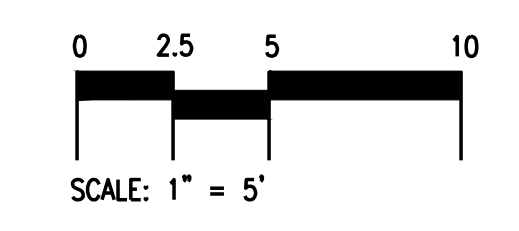
E STATION 3+42.26



F STATION 4+17.05



G STATION 5+5.46



FOR LOCATION OF UNDERGROUND UTILITIES, CALL B.U.D.
1-800-752-8007 (2) WORKING DAYS IN ADVANCE OF DIGGING

STRUCTURAL GENERAL NOTES

STRUCTURAL DESIGN CRITERIA

1. APPLICABLE BUILDING CODES:
 - A. 2007 KENTUCKY BUILDING CODE
 - B. 2006 INTERNATIONAL BUILDING CODE
 - C. ASCE STANDARD: ASCE 7-05
2. PROJECT LOCATION: LOUISVILLE, KENTUCKY (JEFFERSON COUNTY)
3. DESIGN LOADS:
 - A. SIDEWALK LIVE LOADS: 250 PSF OR 8000# CONCENTRATED LOAD.

CONCRETE

1. ALL CONCRETE FOR GENERAL USE (INCLUDING FOOTINGS AND FOUNDATION WALLS SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4000 PSI.
2. REINFORCING STEEL SHALL BE AS FOLLOWS:

STIRRUPS AND TIES	ASTM A615 GRADE 60
ALL OTHER REINFORCING.....	ASTM A615 GRADE 60
WELDED WIRE FABRIC	ASTM A185

REINFORCING STEEL WITHIN 8" FROM THE TOP OF CONCRETE SLAB SHALL BE EPOXY COATED. W.W.F. w/IN 8" FROM TOP OF CONCRETE SLAB SHALL BE HOT DIPPED GALVANIZED.
3. PROVIDE BAR SUPPORTS AND SPACERS IN ACCORDANCE WITH ACI DETAILING MANUAL. ALL BAR SUPPORTS IN AREAS WHERE CONCRETE WILL BE EXPOSED SHALL HAVE PLASTIC FEET. PRECAST CONCRETE BLOCKS 3"x3"x3" SHALL BE USED TO SUPPORT REINFORCING OFF OF THE GROUND. AT ALL OTHER LOCATIONS, CHAIRS OR STANDEES SHALL BE USED.
4. DETAILING, FABRICATION AND PLACING OF REINFORCING SHALL CONFORM TO APPLICABLE PROVISIONS OF ACI 315 AND ACI 318.
5. SLABS AND FOOTINGS SHALL HAVE NO HORIZONTAL JOINTS. ANY STOP IN CONCRETE WORK MUST BE MADE WITH VERTICAL KEYED BULKHEADS. ALL REINFORCEMENT SHALL CONTINUE THROUGH JOINTS.
6. BEFORE PLACING CONCRETE, THE CONTRACTOR SHALL NOTIFY ALL SUBCONTRACTORS TO BE SURE ALL SLEEVES, CONDUIT, CHASES, ETC. ARE PROPERLY INSTALLED.
7. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER AS SOON AS PRACTICAL, BUT AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE TO ALLOW FOR INSPECTION OF REINFORCING AND EMBEDDED ITEMS.
8. MATERIALS SHALL COMPLY WITH REQUIREMENTS OF DESIGNATED SPECIFICATIONS OF AMERICAN SOCIETY FOR TESTING AND MATERIALS, 1916 RACE STREET, PHILADELPHIA, PENNSYLVANIA.
9. CONSTRUCTION PROCEDURES SHALL COMPLY WITH RECOMMENDATIONS SET FORTH IN DESIGNATED STANDARDS OF AMERICAN CONCRETE INSTITUTE, P.O. BOX 9094, FARMINGTON HILLS, MICHIGAN 48333.
10. ADMIXTURE OTHER THAN AIR-ENTRAINING SHALL NOT BE USED WITHOUT APPROVAL OF THE ARCHITECT/ENGINEER. AIR-ENTRAINING ADMIXTURES TO CONFORM TO ASTM C260.
11. CURING COMPOUND SHALL CONFORM TO FEDERAL SPECIFICATION TT-C800A, AND A.S.T.M. C309. THE MATERIAL SHALL BE EQUAL TO SONNEBORN KUR-N-SEAL, MASTERSEAL, BY MASTER BUILDERS, OR CLEAR SEAL, BY W.R. GRACE.
12. ALL REINFORCING SPLICES SHALL BE IN ACCORDANCE WITH THE TENSION LAP SPlice TABLE.
13. SPREAD BARS AROUND SMALL OPENINGS AND SLEEVES IN SLABS AND WALLS WHERE POSSIBLE AND WHERE BAR SPACING WILL NOT EXCEED 1.5 TIMES THE NORMAL SPACING. DISCONTINUE BARS AT LARGE OPENINGS WHERE NECESSARY AND PROVIDE AN AREA OF REINFORCEMENT EQUAL TO THE INTERRUPTED REINFORCEMENT, DISTRIBUTING ONE-HALF OF THIS REINFORCEMENT EACH SIDE OF THE OPENING (CLASS B TENSION LAP SPLICED). HOLES LARGER THAN 12 INCHES IN ANY DIRECTION SHALL HAVE (1) #5x5'-0" DIAGONAL BAR IN BOTH FACES AT EACH CORNER.
14. ALL VERTICAL CONCRETE SURFACES SHALL BE FORMED. HOWEVER, VERTICAL SURFACES OF FOOTINGS MAY BE EARTH-FORMED IF THE SOIL IS SUFFICIENTLY STIFF TO PREVENT CAVE-INS.
15. REINFORCING BARS SHALL BE IN PLACE AND SECURED PRIOR TO POURING CONCRETE. "STICKING" DOWELS IN WET CONCRETE IS NOT ACCEPTABLE.
16. REINFORCING BAR SHOP DRAWINGS SHALL SHOW NUMBER, SIZE AND LOCATION OF BARS, AS WELL AS LAP LENGTH AND CLEAR COVER.

FOUNDATIONS

1. FOUNDATIONS ARE SIZED BASED ON ALLOWABLE BEARING PRESSURE OF 1500PSF
2. PRIOR TO CONSTRUCTION OF ANY PERMANENT STRUCTURE, ALL EXISTING SURFACE FILL, ALL TOPSOIL AND ORGANIC MATERIAL, ALL WET, SOFT, LOOSE, OR UNDESIRABLE SOIL.
3. CONCRETE FOR FOOTINGS SHALL BE PLACED THE SAME DAY EXCAVATIONS ARE OPENED. IF THIS IS IMPOSSIBLE, STEPS SHALL BE TAKEN TO ADEQUATELY PROTECT THE OPEN EXCAVATION.

METAL FLOOR DECK

1. METAL FLOOR FORM DECKING SHALL BE FLAT ROLLED, GALVANIZED SHEETS OF STRUCTURAL QUALITY, MEETING THE REQUIREMENTS OF ASTM A653-94, GRADE 80. DECKING SHALL BE FACTORY GALVANIZED, COMPLYING WITH ASTM A653-94, COATING CLASS G90. CORRUGATION (PITCHxDEPTH) SHALL BE 12x2 (MINIMUM) WITH GAUGE SUFFICIENT TO PROVIDE A MINIMUM SECTION MODULUS OF 0.367 IN.3. 20 GAUGE SHALL BE THE MINIMUM ALLOWED. DECKING SHALL BE FASTENED TO STEEL SUPPORTING MEMBERS WITH NO. 12 SELF-TAPPING METAL SCREWS OR POWDER ACTUATED FASTENERS AT 12 INCHES ON CENTER, MAXIMUM SPACING. SIDE LAPS SHALL BE FASTENED TOGETHER WITH #10 SELF-TAPPING METAL SCREWS AT 12" O.C.
2. ATTENTION IS CALLED TO THE FACT THAT THE METAL FLOOR DECK IS TO BE USED AS A PERMANENT FORM FOR THE CONCRETE FLOOR.
3. ACCESSORIES SHALL BE STANDARD WITH THE MANUFACTURER AND SHALL BE FURNISHED AS NECESSARY TO COMPLETE THE FLOOR DECK INSTALLATION. ACCESSORIES SHALL INCLUDE EDGE CLOSURE PLATES FOR ALL OPEN EDGES OF DECK.

STRUCTURAL STEEL

1. ALL ROLLED STEEL PLATES, SHAPES (EXCLUDING WIDE FLANGE SHAPES), BARS AND MISCELLANEOUS ITEMS SHALL BE STRUCTURAL QUALITY CARBON STEEL COMPLYING WITH ASTM A36 (MINIMUM YIELD 36,000 PSI). WIDE FLANGE SHAPES SHALL BE STRUCTURAL QUALITY CARBON STEEL COMPLYING WITH ASTM A992 (MINIMUM YIELD 50,000 PSI).
2. HOLLOW STRUCTURAL SECTIONS (HSS) SHALL COMPLY WITH ASTM A500, GRADE B (MINIMUM YIELD 46 KSI FOR SQUARE AND RECTANGULAR SECTIONS AND 42 KSI FOR ROUND SECTIONS).
3. ALL BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER ASTM F1852 (A325) TWIST-OFF TYPE TENSION-CONTROL BOLTS IN BEARING-TYPE CONNECTIONS U.N.O..
4. ANCHOR RODS SHALL COMPLY WITH ASTM F1554, GRADE 36.
5. EXPANSION ANCHORS SHALL BE HILTI CARBON STEEL KWIK BOLT 3 (K83) ANCHOR MANUFACTURED BY HILTI FASTENING SYSTEMS, OR APPROVED EQUAL.
6. ADHESIVE ANCHORS SHALL CONSIST OF AN HAS-E STEEL ANCHOR ROD WITH THE HIT HY150 ADHESIVE (HIT HY20 ADHESIVE FOR MASONRY CONSTRUCTION WITH VOIDS) SUPPLIED BY HILTI FASTENING SYSTEMS, OR APPROVED EQUAL. INSTALL IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS.
7. WELDED HEADED STUDS TO BE USED AS CONCRETE ANCHORS SHALL BE 1/2" DIA.x4" A.W.L. (U.N.O.), AND SHALL BE LOW CARBON STEEL SOLID FLUXED STUDS COMPLYING WITH ASTM A-108, WITH A MINIMUM Fu=60KSI. STUDS SHALL BE AUTOMATICALLY END WELDED.
8. DEFORMED BAR ANCHORS (DBA): LOW CARBON STEEL PER ASTM A496(Fu=80KSI), SHALL BE AUTOMATICALLY END WELDED.
9. ALL WELDING SHALL BE PERFORMED BY WELDERS CERTIFIED TO PERFORM EACH TYPE OF WELD REQUIRED. ALL WELDS AND WELDING PROCEDURES SHALL COMPLY WITH AWS D1.1, USING E70XX ELECTRODES UNLESS NOTED OTHERWISE.
10. WELD SIZES NOT SHOWN ON DESIGN DRAWINGS SHALL BE MINIMUM SIZE REQUIRED BY AWS D1.1 (LATEST EDITION) ACCORDING TO THE MATERIAL THICKNESS BEING WELDED. ALL WELDS SHALL BE PRE-QUALIFIED PER AWS D1.1 (LATEST EDITION). WELDS EXPOSED TO VIEW IN THE FINISHED CONDITION SHALL BE GROUND SMOOTH TO THE SPECIFIED PROFILE.
11. STEEL FRAMEWORK SHALL NOT BE ASSUMED STRUCTURALLY STABLE UNTIL ALL MEMBERS ARE IN PLACE AND CONNECTIONS ARE INSTALLED. ANY USE OF THE PARTIALLY ERECTED FRAMEWORK FOR TEMPORARY SUPPORT OF ANY KIND SHALL BE DONE ONLY AT THE CONTRACTOR'S RISK.
12. COMPLY WITH THE PROVISIONS OF THE LATEST EDITIONS OF THE FOLLOWING CODES, SPECIFICATIONS AND STANDARDS, EXCEPT AS OTHERWISE SHOWN OR SPECIFIED HEREIN.
 - A. A.I.S.C. "CODE OF STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES."
 - B. A.I.S.C. "SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS."
 - C. A.I.S.C. "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS."
 - D. AWS "STRUCTURAL WELDING CODE"
13. ALL CONNECTIONS NOT INDICATED ON THE DESIGN DRAWINGS SHALL BE DESIGNED BY A STRUCTURAL ENGINEER REGISTERED IN THE STATE WHERE STRUCTURAL STEEL IS TO BE ERECTED, RETAINED BY THE STEEL FABRICATOR. ALL CALCULATIONS AND SHOP DRAWINGS SHALL BE DULY STAMPED AND SIGNED BY THE REGISTERED STRUCTURAL ENGINEER AND SUBMITTED FOR REVIEW BY THE ARCHITECT. STAMPING AND SIGNING OF SHOP DRAWINGS SHALL BE FOR THE EXCLUSIVE PURPOSE OF CERTIFYING THAT THE CONNECTIONS ARE DETAILED AS PER THE DESIGN PERFORMED BY THE REGISTERED STRUCTURAL ENGINEER. FAILURE TO SUBMIT STAMPED AND SIGNED CALCULATIONS AND STAMPED AND SIGNED SHOP DRAWINGS SHALL BE SUFFICIENT CAUSE FOR REJECTION OF SHOP DRAWINGS. THE CONTRACTOR SHALL BE LIABLE FOR THE DIMENSION, FIT, TOLERANCES, FABRICATION AND ERECTION.
14. SIMPLE SPAN CONNECTIONS FOR BEAMS SHALL CONSIST OF STANDARD DOUBLE-ANGLE BOLTED AND/OR WELDED CONNECTIONS, AND SHALL BE DESIGNED FOR ONE-HALF THE BEAM LOAD CAPACITY AS GIVEN IN AISC TABLE 3-6 "MAXIMUM TOTAL UNIFORM LOAD" (AISC MANUAL, 13TH EDITION).
15. LENGTH OF CONNECTION ANGLES FOR BEAM-TO-COLUMN OR BEAM-TO-BEAM CONNECTIONS SHALL BE THE LARGEST STANDARD LENGTH LESS THAN OR EQUAL TO THE "T" DIMENSION OF THE BEAM. STANDARD LENGTHS AND AVAILABLE STRENGTH OF CONNECTION ANGLES ARE FOUND IN "A.I.S.C. MANUAL OF STEEL CONSTRUCTION" (13TH EDITION), TABLES 10-1 THRU 10-3.
16. UNLESS SHOWN OTHERWISE, ALL COLUMNS SHALL HAVE A BASE PLATE AND A CAP PLATE. BASE PLATES SHALL HAVE A MINIMUM THICKNESS OF 3/4". ALL CAP PLATES SHALL HAVE A MINIMUM OF 5/8" THICKNESS.
17. PROVIDE VERTICAL WEB STIFFENERS ON EACH SIDE OF WEB OF BEAM AT ALL POINTS SUBJECTED TO CONCENTRATED LOADS, SUCH AS COLUMN RESTING ON BEAM AND BEAM FRAMING INTO A BEAM. THE STIFFENERS SHALL EXTEND TO FULL DEPTH OF BEAM AND THE BOUNDARY OF FLANGE WITH MINIMUM THICKNESS OF 3/8".
18. ALL STRUCTURAL STEEL SHALL BE HOT DIPPED GALVANIZED.
19. STEEL GRATING TO BE WELDED RECTANGULAR DESIGN, TYPE 11-W-4. MAIN BARS FOR GRATING TO BE 1 3/4" X 3/16" SPACED AT 11/16" CENTER-TO-CENTER. CROSS BARS TO BE RESISTANCE WELDED AT RIGHT ANGLES TO THE BEARING BARS AND SHALL BE SPACED 4 INCHES CENTER-TO-CENTER. NO NOTCHING OR CUTTING OF BEARING BARS BEFORE WELDING IS PERMISSIBLE. GRATING IS TO SAFELY SUPPORT A UNIFORMLY DISTRIBUTED LOAD OF 250 POUNDS PER SQUARE FOOT OR 8000 LBS. CONCENTRATED LOAD ON A 42 INCH SPAN AND DEFLECT LESS THAN 0.25 INCHES. FINISH TO BE HOT-DIPPED GALVANIZED. OVERALL DIMENSIONS, DETAILS, AND DIRECTION OF BEARING BARS IN ACCORDANCE WITH PLANS.

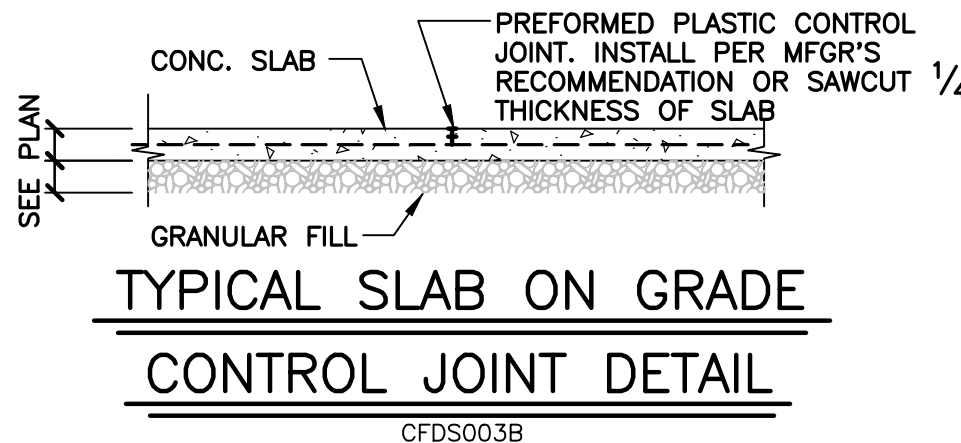
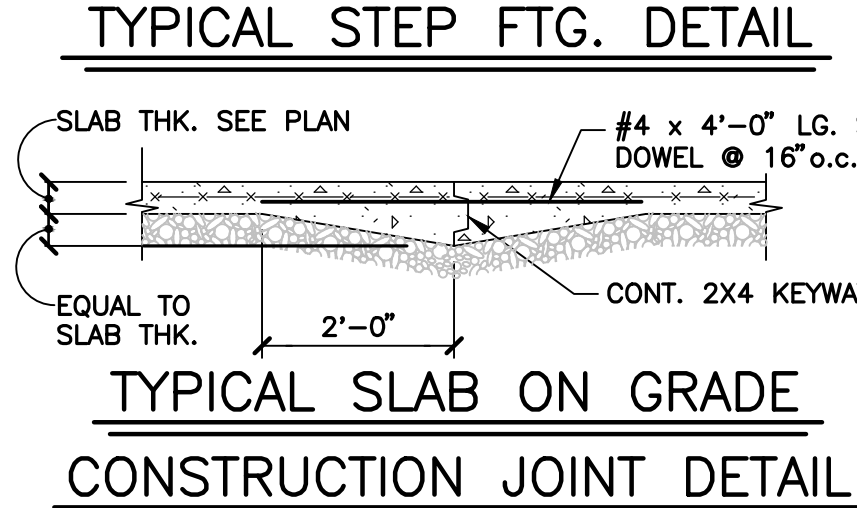
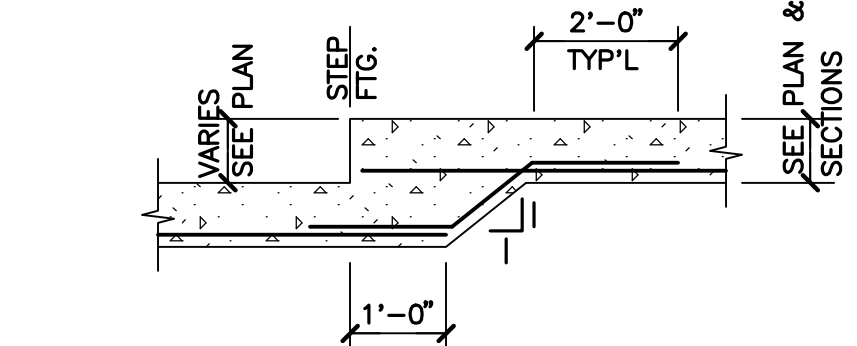
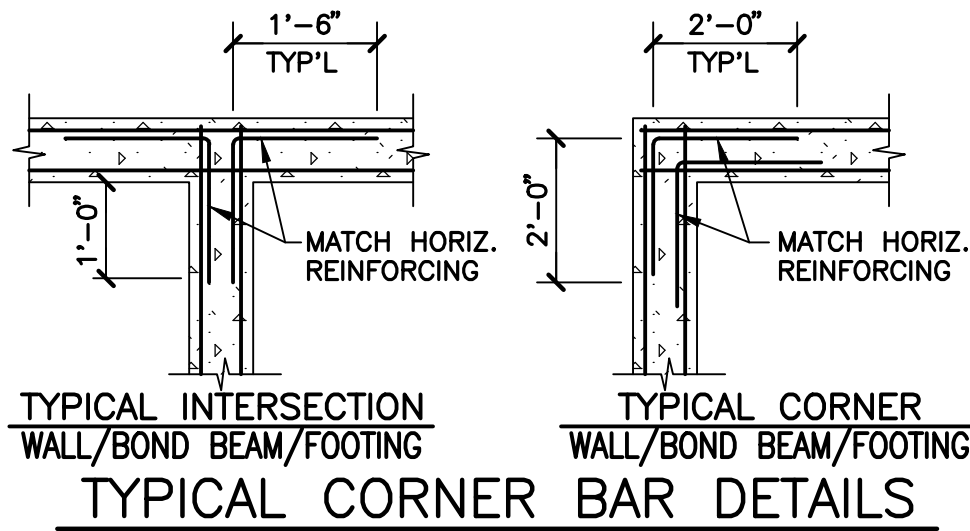
MISCELLANEOUS

1. SHRINKAGE-RESISTING GROUT FOR USE BENEATH COLUMN BASEPLATES AND BEAM BEARINGS SHALL BE PRE-MIXED, FACTORY PACKAGED, NON-STAINING, NON-METALLIC, NON-GASING MORTAR GROUTING COMPOUND, COMPLYING WITH THE REQUIREMENTS OF A.S.T.M. C1107. GROUT SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 5,000 PSI.
2. NO CHANGE IN SIZE OF STRUCTURAL ELEMENTS OR MODIFICATION THEREOF SHALL BE MADE, NOR ARE ANY OPENINGS OR SLEEVES THROUGH ANY STRUCTURAL ELEMENTS PERMITTED, UNLESS DETAILED ON THE DRAWINGS.

CONTRACTOR RESPONSIBILITIES

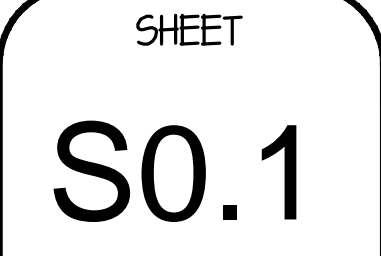
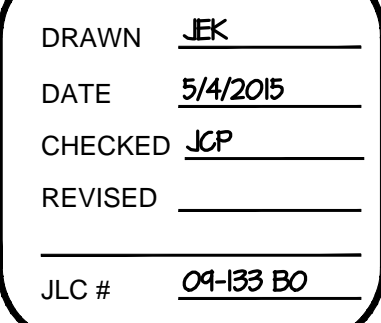
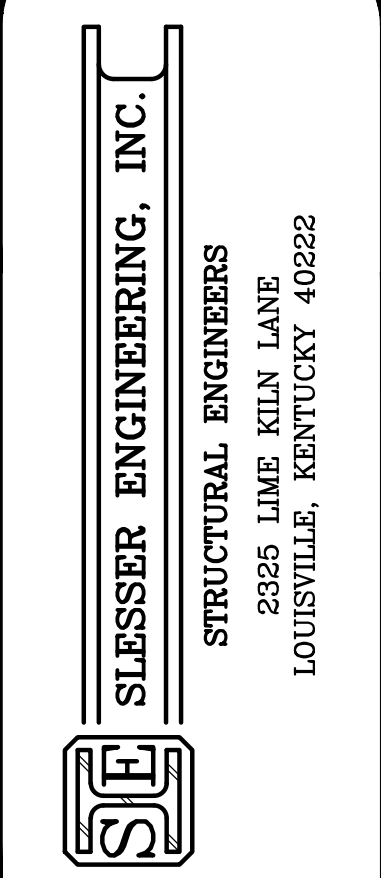
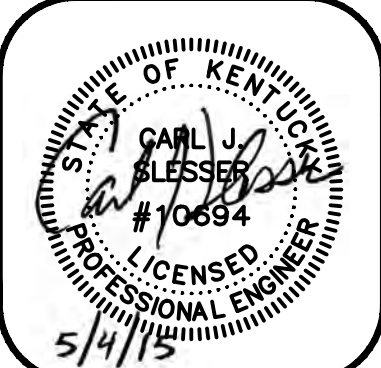
1. MATERIAL, WORKMANSHIP, AND DESIGN SHALL CONFORM TO THE REFERENCED BUILDING CODE.
 2. COORDINATE STRUCTURAL DOCUMENTS WITH THE ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DOCUMENTS. ARCHITECT/STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY OR OMISSION.
 3. VERIFY THE DIMENSIONS, ELEVATIONS AND SITE CONDITIONS BEFORE STARTING WORK. ANY DISCREPANCY BETWEEN SUCH DETAILS AND DIMENSIONS AS MAY OCCUR SHALL BE REPORTED TO THE ARCHITECT/ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
 4. NOTIFY, IN WRITING, THE STRUCTURAL ENGINEER OF CONDITIONS ENCOUNTERED IN THE FIELD CONTRADICTORY TO THOSE SHOWN IN THE STRUCTURAL DOCUMENTS.
 5. CONTRACTOR HAS SOLE RESPONSIBILITY FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF CONSTRUCTION.
 6. CONTRACTOR HAS SOLE RESPONSIBILITY FOR THE DESIGN, ADEQUACY, AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC.
 7. CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL OSHA SAFETY REGULATIONS.
 8. SUBMITTALS
- FURNISH ONE SEPIA AND TWO PRINTS OF SHOP DRAWINGS. FURNISH THREE COPIES OF OTHER STRUCTURAL SUBMITTALS.

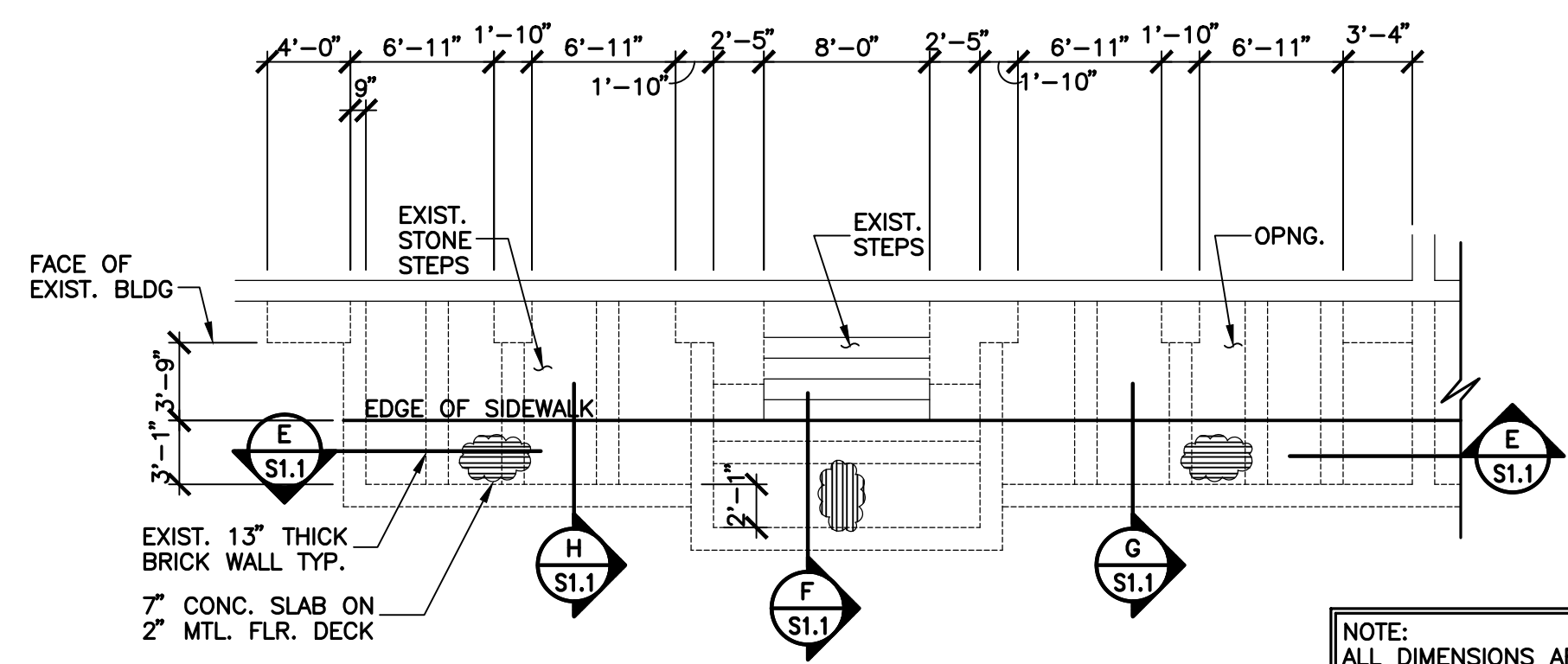
- REVIEW OF SUBMITTALS OR SHOP DRAWINGS BY THE STRUCTURAL ENGINEER DOES NOT RELIEVE THE CONTRACTOR OF THE SOLE RESPONSIBILITY TO REVIEW AND CHECK ALL SUBMITTALS AND SHOP DRAWINGS BEFORE SUBMITTING TO THE STRUCTURAL ENGINEER. CONTRACTOR REMAINS SOLELY RESPONSIBLE FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF SHOP DRAWINGS AS THEY PERTAIN TO MEMBER SIZES, DETAILS, AND DIMENSIONS SPECIFIED IN THE CONTRACT DOCUMENTS.
9. DUE TO THE NATURE OF THE WORK, ALL DIMENSIONS AND/OR EXISTING DETAILS SHOWN ON THE DRAWINGS THAT WILL IN ANY WAY AFFECT THE WORK SHALL BE FIELD CHECKED PRIOR TO FABRICATION OF ANY MATERIALS. FIELD CHECKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IF THERE IS ANY QUESTION AS TO THE INTENT OF THE WORK INDICATED, THE CONTRACTOR SHALL CLEAR THE QUESTION WITH THE ARCHITECT/ENGINEER BEFORE PROCEEDING.
 10. THE CONTRACTOR SHALL BE AWARE THAT THE WORK INVOLVES ADDITIONS TO AN EXISTING FACILITY THAT WILL REMAIN IN OPERATION DURING CONSTRUCTION. IT IS THEREFORE MANDATORY THAT WORK THAT WILL IN ANY WAY AFFECT THE NORMAL OPERATION OF THE FACILITY BE COORDINATED WITH THE OWNER.
 11. WHEN INSTALLING NEW OPENINGS IN EXISTING CONCRETE OR MASONRY WALLS, THE CONTRACTOR SHALL DESIGN AND PROVIDE NECESSARY SHORING AND BEARING TO SUPPORT WALL UNTIL THE PERMANENT SUPPORT SYSTEM AS SHOWN IS FULLY INSTALLED.
 12. CONTRACTOR HAS THE SOLE RESPONSIBILITY TO PROTECT THE EXISTING BUILDING AND KEEP IT SAFE FROM DAMAGE DURING THE CONSTRUCTION PROCESS. ANY DAMAGE INCURRED DURING THE CONSTRUCTION PROCESS SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTORS COST.



CONCRETE PROTECTION FOR REINFORCEMENT	
IN CAST-IN-PLACE CONCRETE	
THE FOLLOWING CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT; UNLESS NOTED OTHERWISE	
COVER, IN.	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
CONCRETE EXPOSED TO EARTH OR WEATHER	
#6 THROUGH #18 BARS	2
#5 BAR, W31 OR D31 WIRE, AND SMALLER	1 1/2
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND	
SLABS, WALLS, JOIST:	
#14 AND #18 BARS	1 1/2
#11 BAR AND SMALLER	3/4
BEAMS AND COLUMNS:	
PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS	1 1/2

REINFORCEMENT LAP SPlice LENGTH			
(GRADE 60 REINFORCEMENT)			
THE FOLLOWING LAP SPlice SHALL BE PROVIDED FOR REINFORCEMENT; UNLESS NOTED OTHERWISE			
	4000 PSI CONCRETE		MASONRY
	TOP BARS	OTHERS	
#3	24"	19"	18"
#4	32"	25"	24"
#5	40"	31"	30"
#6	48"	37"	36"
#7	70"	54"	42"
#8	80"	62"	48"
#9	91"	70"	55"
#10	102"	79"	--
#11	113"	87"	--
(TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 IN. OF CONCRETE CAST BELOW THE BARS)			
NOTE: ALL WELDED WIRE FABRIC LAP SPlices SHALL BE ONE SPACE PLUS 2" (i.e. WWP 6x6 = 8" SPlice)			

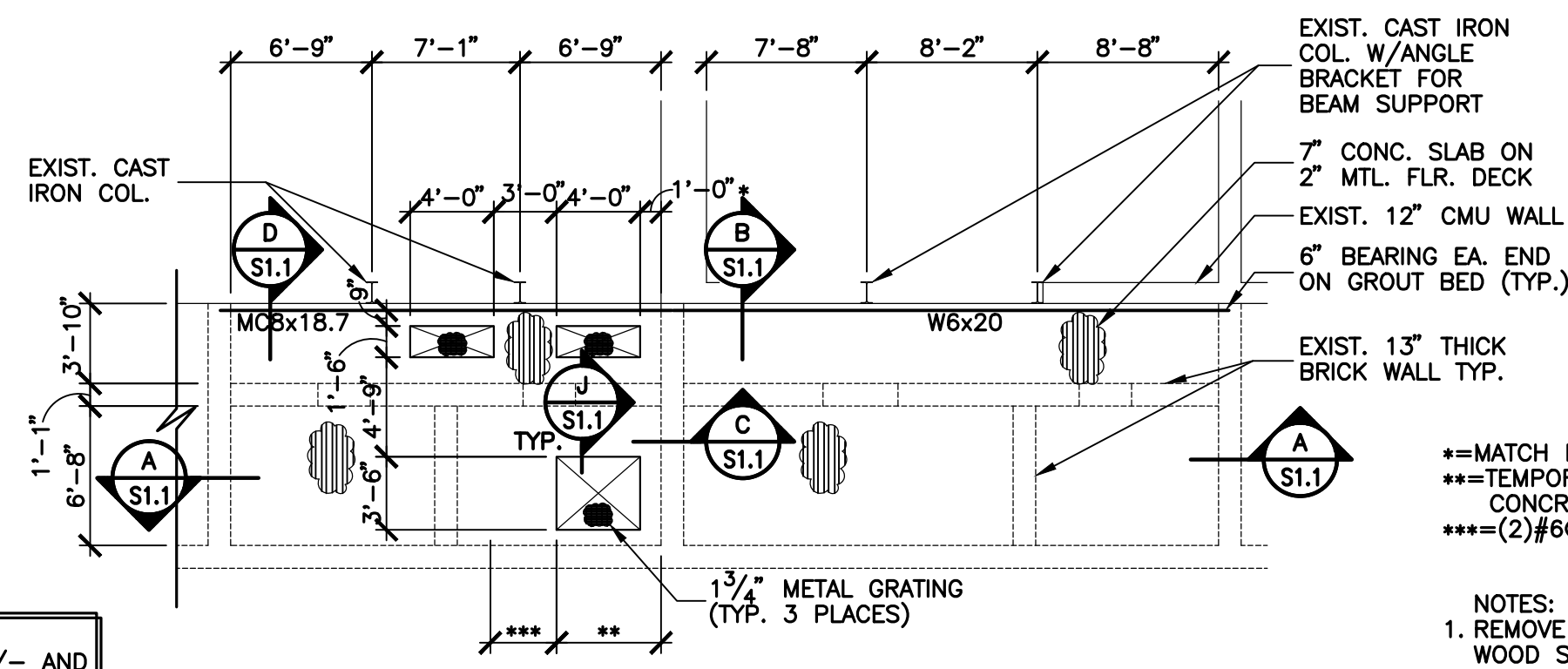




131 W. MAIN STREET

PARTIAL PLAN

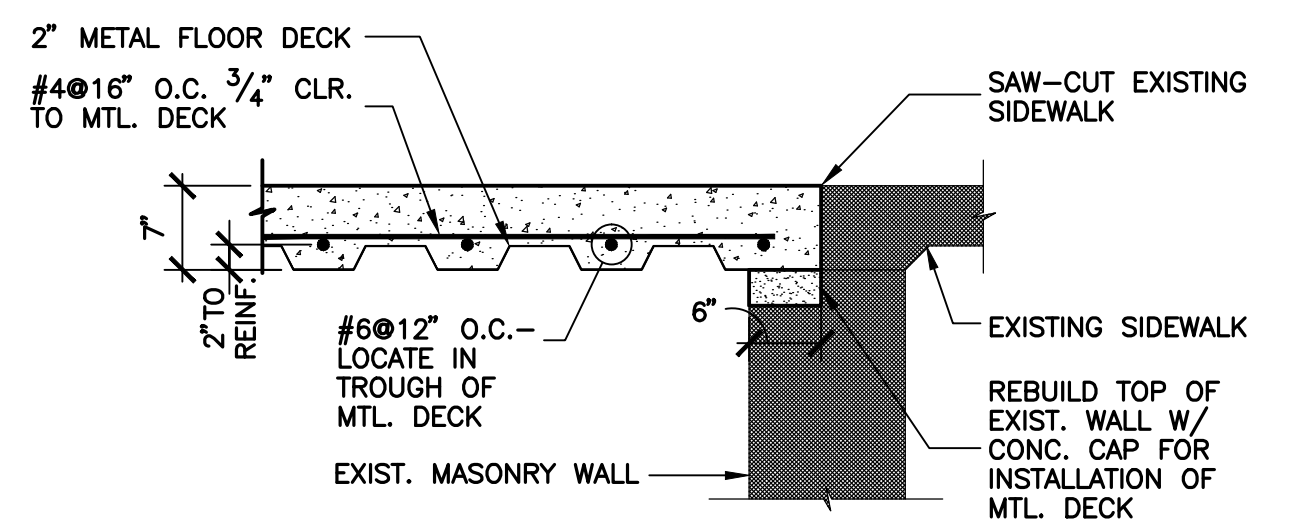
SCALE: 1/8" = 1'-0"



127 W. MAIN STREET

123 W. MAIN STREET

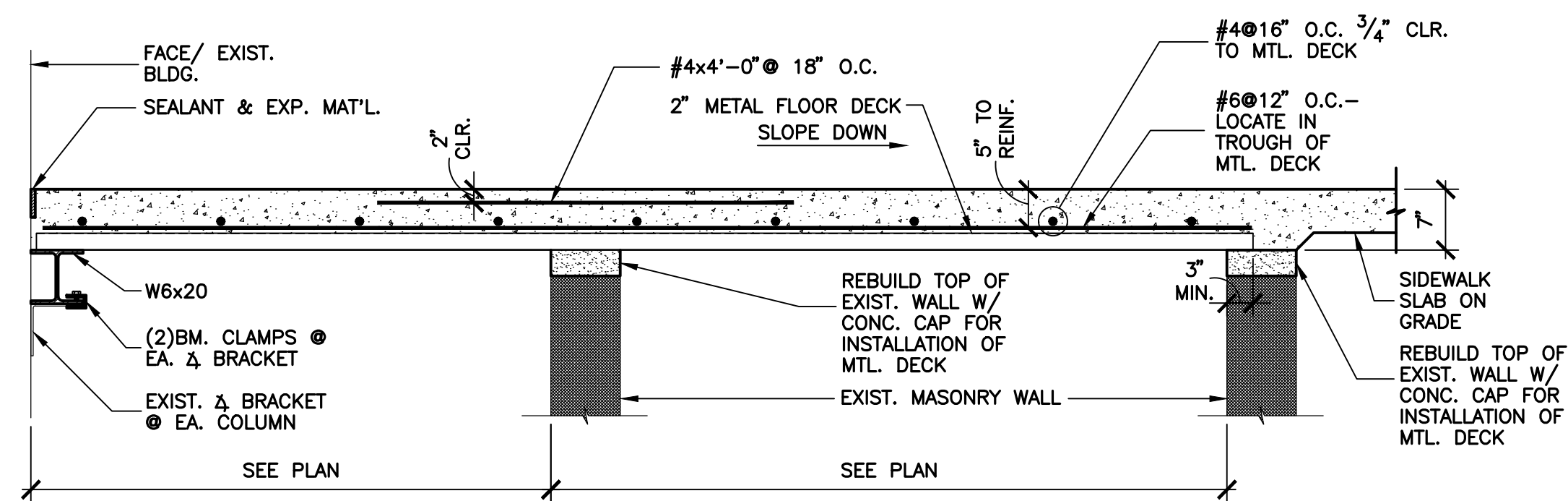
- NOTES:
1. REMOVE EXISTING SIDEWALK, STONE PAVERS, CONCRETE SLAB, WOOD SHORING & SUPPORT STEEL BENEATH SIDEWALK AS REQ'D. TO INSTALL NEW.
 2. PROVIDE TEMPORARY SUPPORT BENEATH 2" MTL. DECK FOR SPAN GREATER THAN 5'-5" UNTIL CONCRETE HAS REACHED 75% OF DESIGN STRENGTH.
 3. FILL ALL PENETRATIONS IN EXISTING WALLS WITH NON-SHRINK GROUT.



SECTION

SCALE: 3/4" = 1'-0"

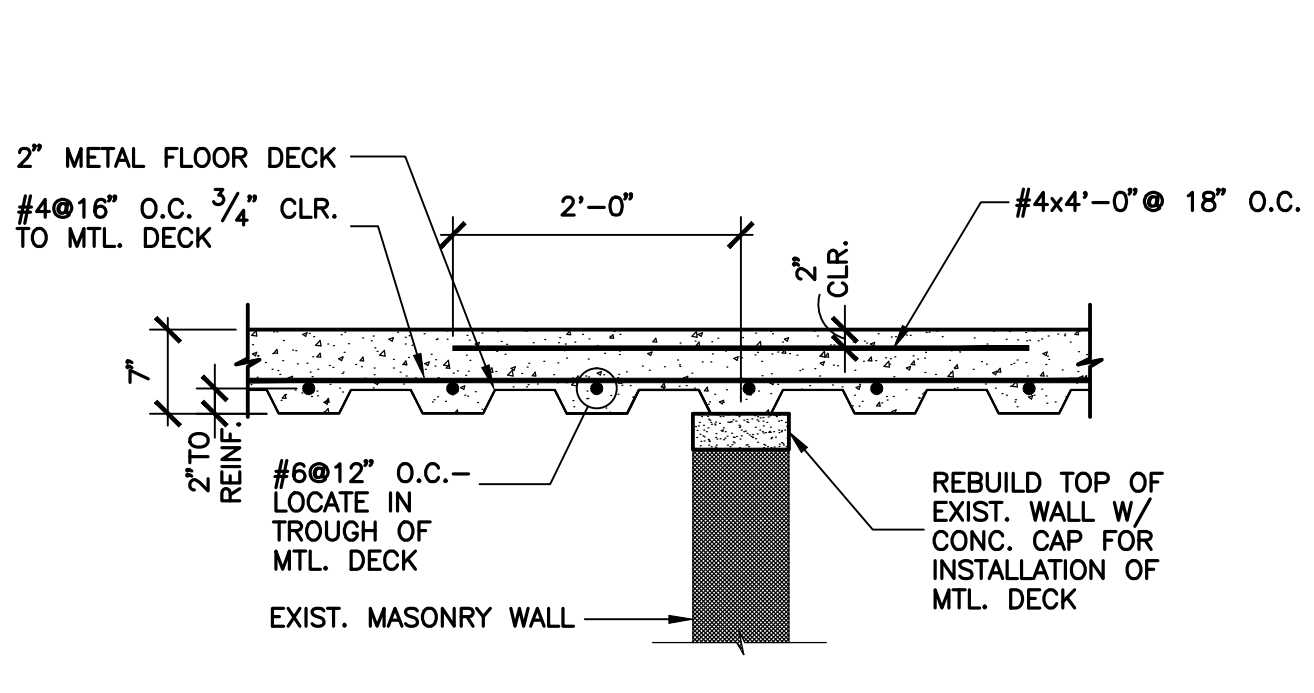
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SECTION

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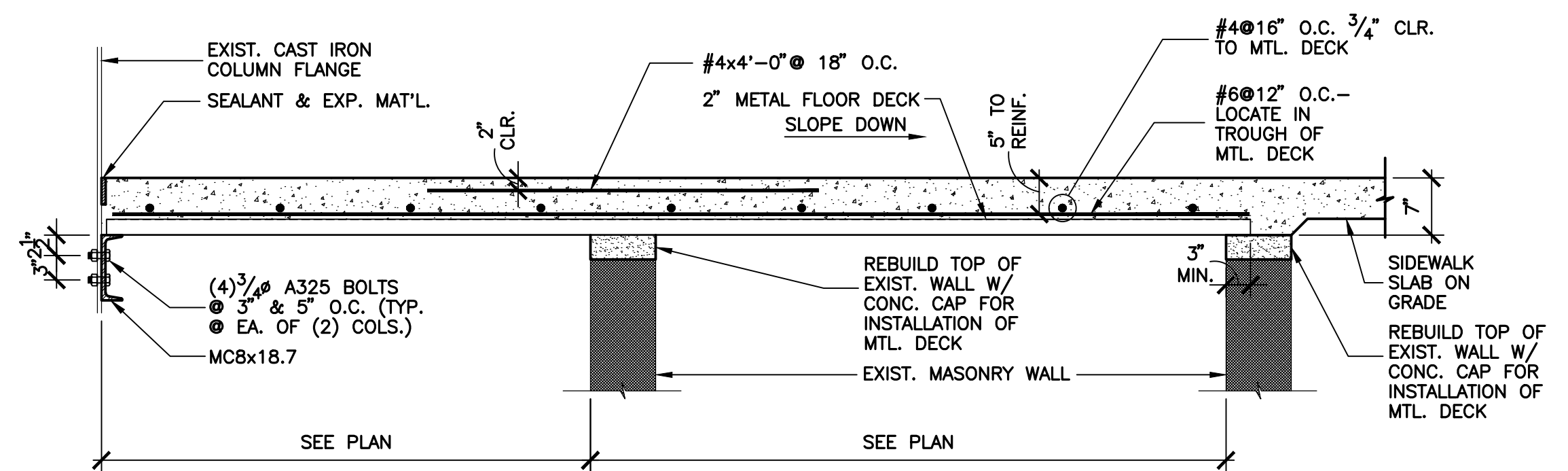
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SECTION

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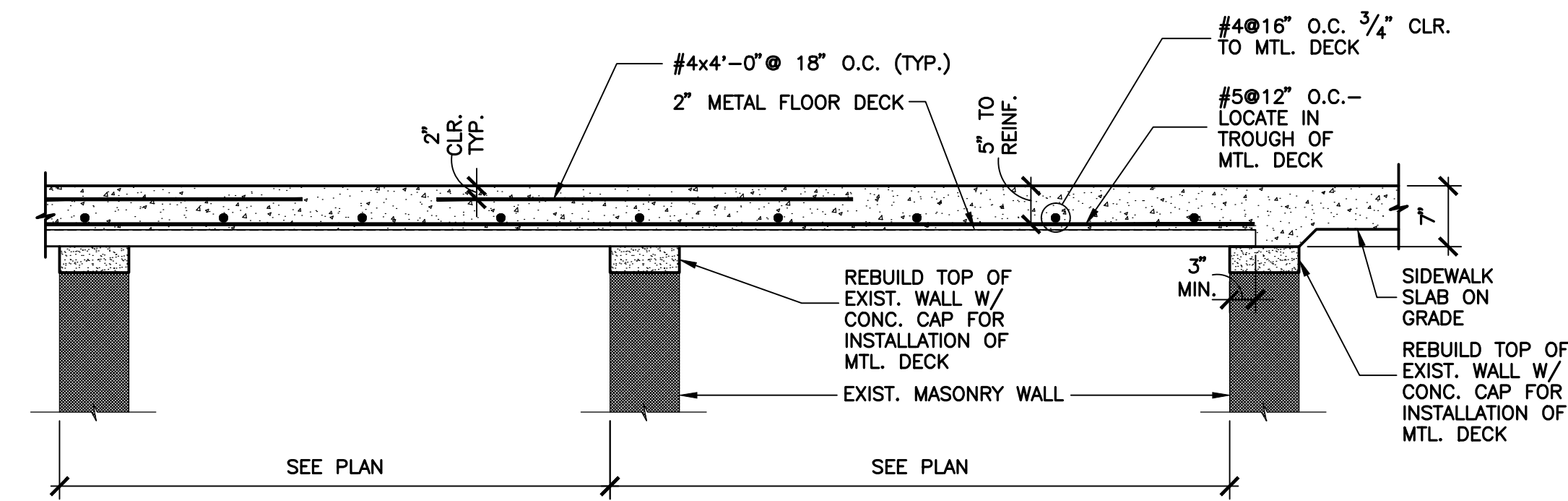
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SECTION

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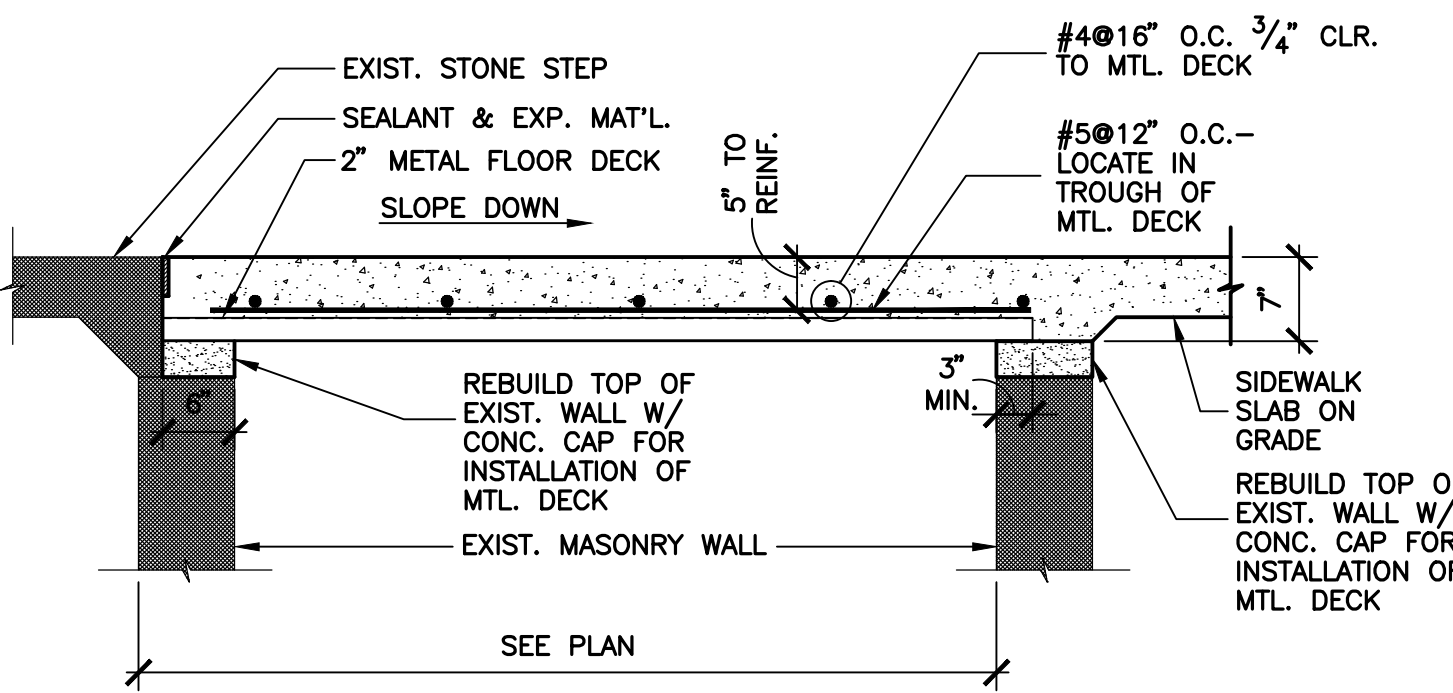
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SECTION

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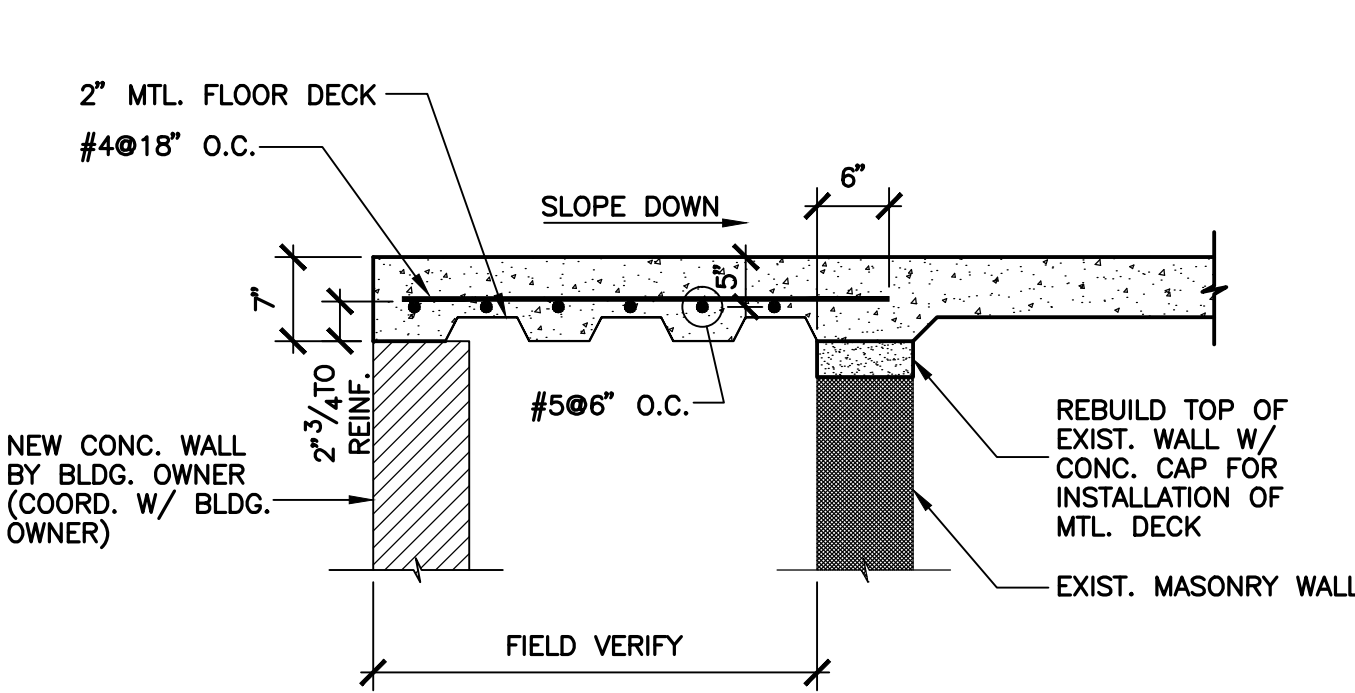
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SECTION

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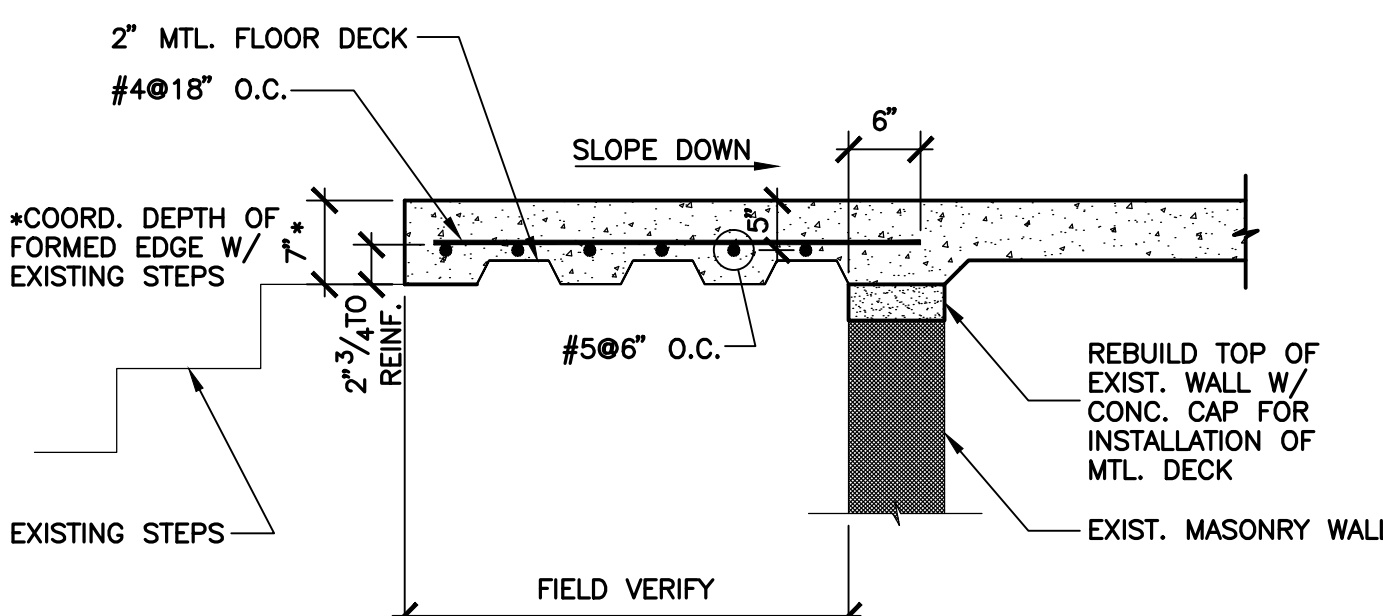
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SECTION

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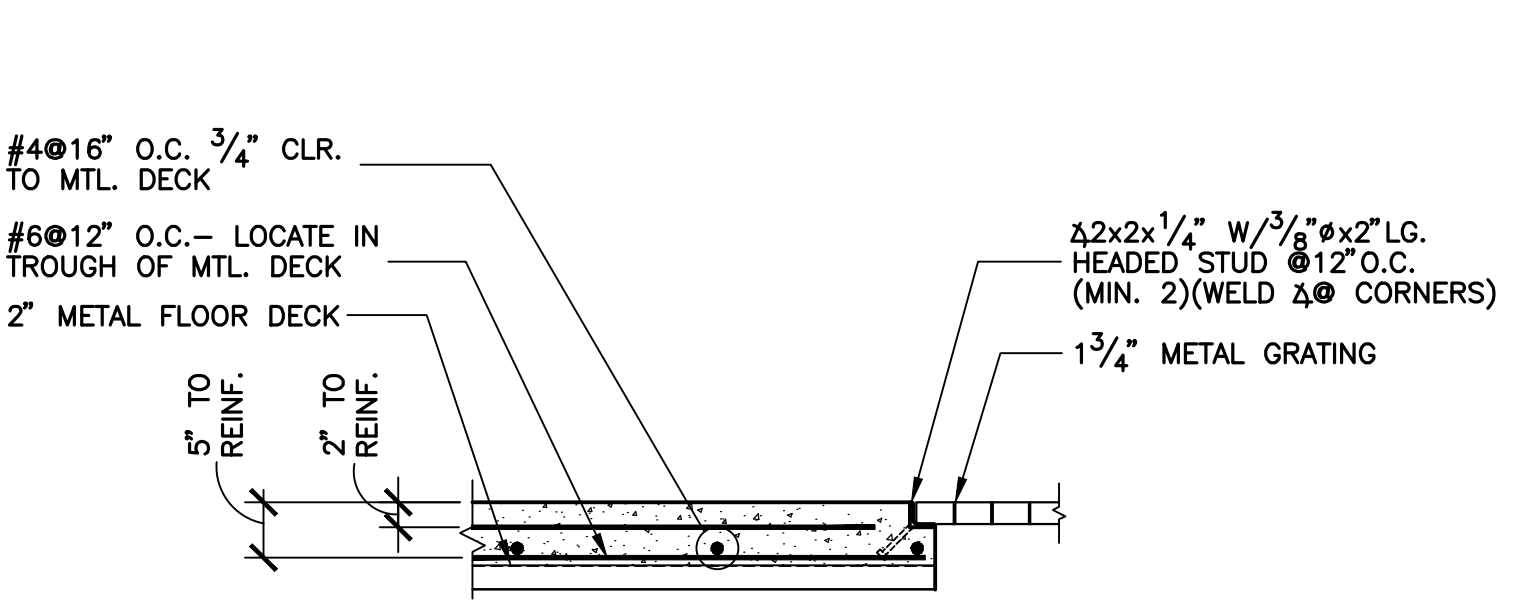
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SECTION

SCALE: 3/4" = 1'-0"

CFES2506G S1.1



SECTION

SCALE: 3/4" = 1'-0"

CFES2506H S1.1



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1-800-752-6007 (2) WORKING DAYS IN ADVANCE OF DIGGING