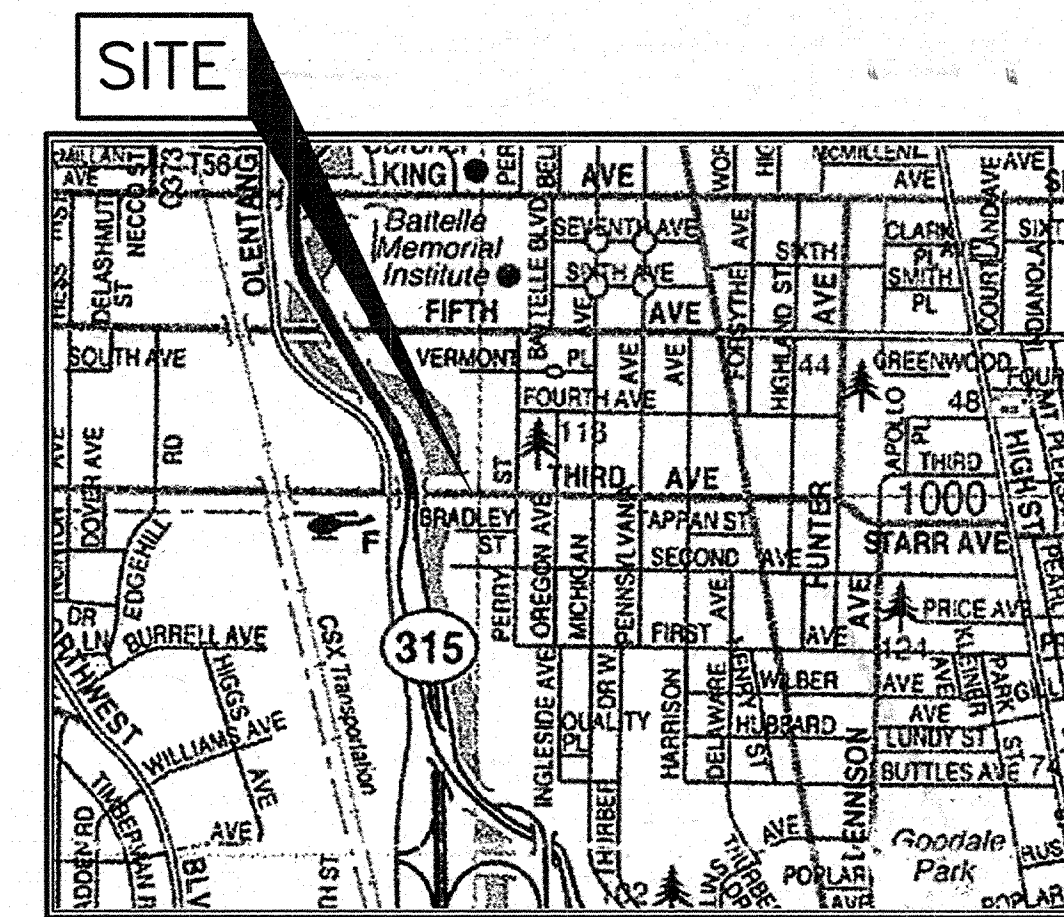
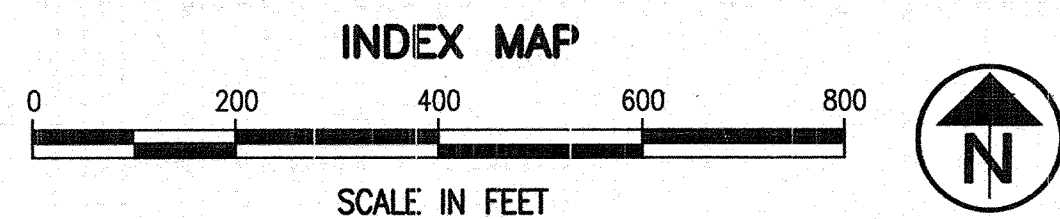
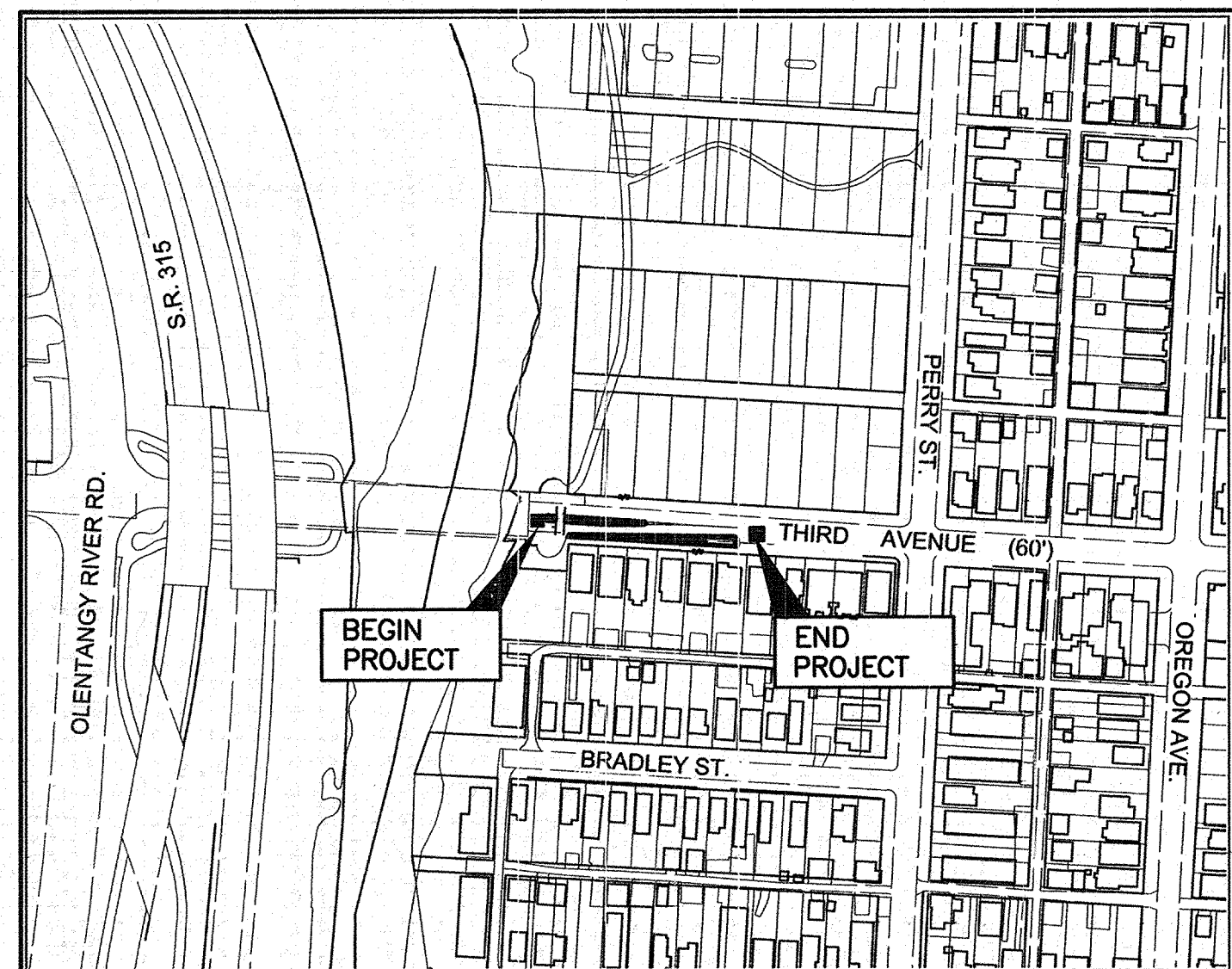


CITY OF COLUMBUS
TRANSPORTATION DIVISION

**SSI OVERALL TRAFFIC
MANAGEMENT PLAN
PHASE I
THIRD AVENUE TRAFFIC ISLAND**

PROJECT IS APPROXIMATELY 500' WEST OF PERRY ST. AND 500' EAST OF OLENTANGY RIVER RD.



LOCATION MAP

CITY OF COLUMBUS SIGNATURES ON THIS PLAN SIGNIFY ONLY CONCURRENCE WITH THE GENERAL PURPOSES AND GENERAL LOCATION OF THE PROJECT. ALL TECHNICAL DETAILS REMAIN THE RESPONSIBILITY OF THE ENGINEER PREPARING THE PLAN.

DESCRIPTION

PROJECT CONSISTS OF INSTALLATION OF MID-BLOCK MEDIAN ON 3RD AVE. AND A MID-BLOCK BUMP-OUT ON 3RD AVE.—INCLUDING LANDSCAPING, RAISED PLANTERS, DECORATIVE LIGHTS, AND IRRIGATION.

2002 SPECIFICATIONS

THE CONSTRUCTION AND MATERIAL SPECIFICATIONS BY THE CITY OF COLUMBUS, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

BENCHMARK

BM#1: E. MOST TOP FLANGE BOLT ON F.H. 13'± E. OF M.H. ON N.E. CORNER OF PERRY ST. AND THIRD AVE. STA. 20+30.0, 19.10' LT., ELEV. 737.97

CONVENTIONAL SYMBOLS

- COUNTY LINE _____
- TOWNSHIP LINE _____
- SECTION LINE _____
- CORPORATION LINE _____
- FENCE LINE (EXISTING) —X—X— (PROP) —X—X—
- CENTER LINE _____
- TREES (TO BE REMOVED)
- UTILITY POLES: TELEPHONE POWER
- RIGHT-OF-WAY _____ R/W _____
- EXIST. RIGHT-OF-WAY _____ EX. R/W _____
- PROPERTY LINE _____ (IN EXISTING FENCE) —X—X— _____
- RAILROAD OR
- GUARDRAIL (EXIST) (PROPOSED)
- CONSTRUCTION LIMITS _____

INDEX OF SHEETS

- TITLE SHEET _____ 1
- GENERAL NOTES _____ 2-5
- MAINTENANCE OF TRAFFIC NOTES _____ 6
- MAINTENANCE OF TRAFFIC _____ 7-8
- GENERAL SUMMARY _____ 9
- PLAN _____ 10
- PLAN DETAILS _____ 11
- MEDIAN PLANTER & PAVER LAYOUT _____ 12
- BUMP-OUT PLANTER & PAVER LAYOUT _____ 13
- MEDIAN AND BUMP-OUT TYPICAL SECTIONS _____ 14
- ALT. 2 CAST STONE VENEER DETAILS _____ 15
- BRICK CROSSWALK (ALT. 1) AND STREETLIGHT DETAILS _____ 16
- STORM SEWER _____ 17
- TRAFFIC CONTROL NOTES _____ 18
- TRAFFIC CONTROL _____ 19
- LIGHTING NOTES _____ 20
- LIGHTING _____ 21
- PLANTING & IRRIGATION _____ 22
- IRRIGATION SPECIFICATIONS _____ 23-24
- LANDSCAPE SPECIFICATIONS _____ 25-26

STANDARD CONSTRUCTION DRAWINGS	
CITY OF COLUMBUS	CITY OF COLUMBUS SUPPLEMENTAL SPECIFICATIONS
1441 DR. A	07-15-02
2000 DR. A	07-15-02
2010 DR. A	07-15-02
2170 DR. A	07-15-02
2179 DR. A	07-15-02
2300 DR. A	07-15-02
2301 DR. A (ARTERIAL)	07-15-02
2442 DR. A	07-15-02
2319 DR. A	07-15-02
MIS-14	08-99
MIS-17	08-99
MIS-25	12-03
MIS-41	12-03
MIS-51	06-03
MIS-63	01-96
MIS-91	05-96
SS - 1550	
SS - 1551	

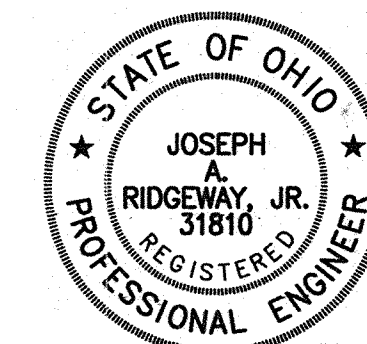
UNDERGROUND UTILITIES

TWO WORKING DAYS
BEFORE YOU DIG

CALL 1-800-362-2764 (TOLL FREE)
OHIO UTILITIES PROTECTION SERVICE
NON-MEMBERS
MUST BE CALLED DIRECTLY

REVISION	DESCRIPTION	SHEET/SHEETS	INITIAL	DATE

- 6-17-08
DESIGN AND PLAN SERVICES ENGINEER, TRANSPORTATION DIVISION DATE
- 12-8-08
ADMINISTRATOR, DIVISION OF POWER AND WATER DATE
- 12-12-08
ADMINISTRATOR, DIVISION OF SEWERAGE AND DRAINAGE DATE
- 12/16/08
DIRECTOR, DEPARTMENT OF PUBLIC UTILITIES DATE
- 6-17-08
HYDRANT SUPERVISOR, DIVISION OF FIRE DATE
- 6-15-08
ADMINISTRATOR, DIVISION OF TELECOMMUNICATION DATE
- 6-18-08
DIRECTOR, DEPARTMENT OF RECREATION AND PARKS DATE
- 12/16/08
CITY ENGINEER, TRANSPORTATION DIVISION DATE
- 12/16/08
DIRECTOR, DEPARTMENT OF PUBLIC SERVICE DATE

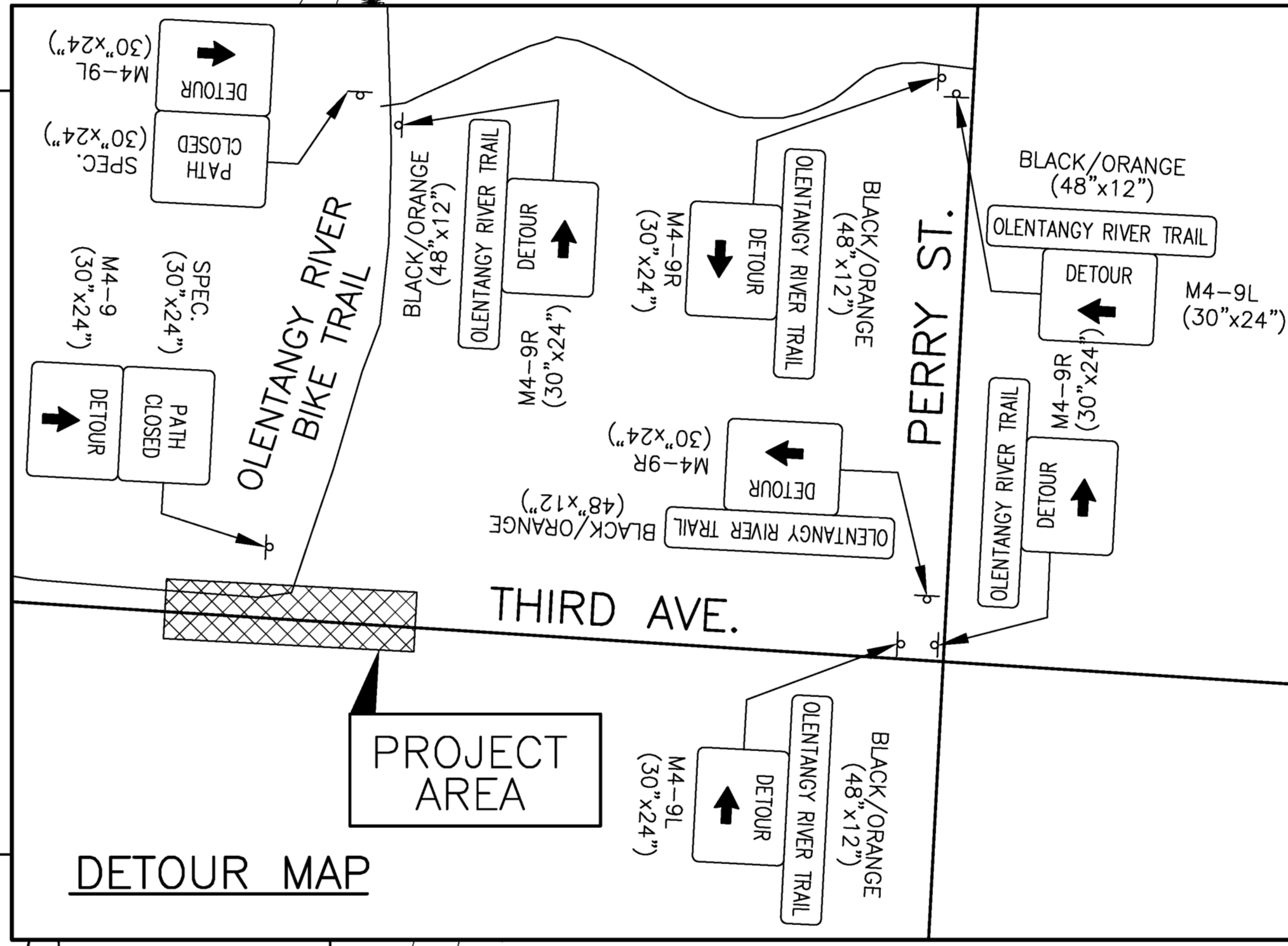
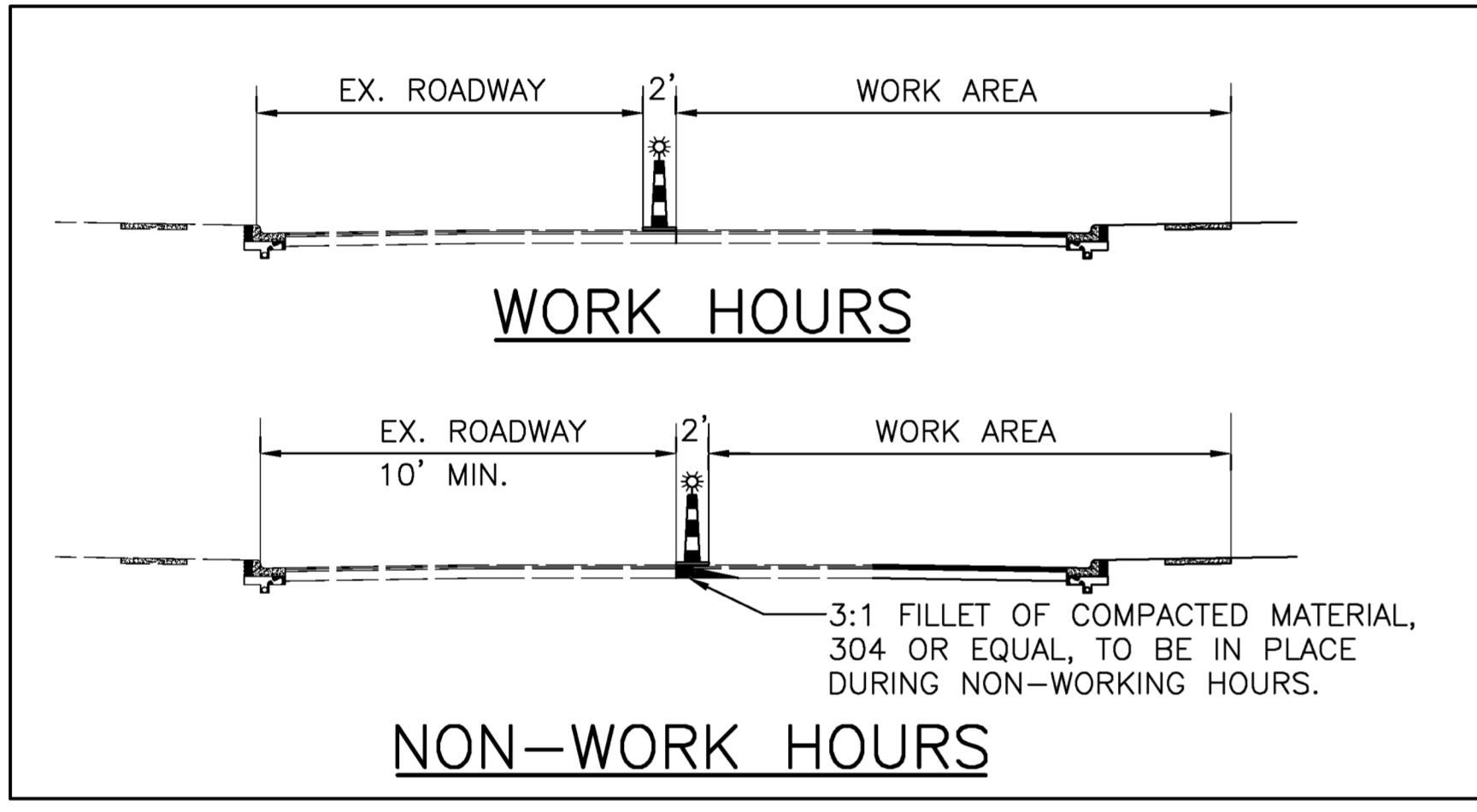
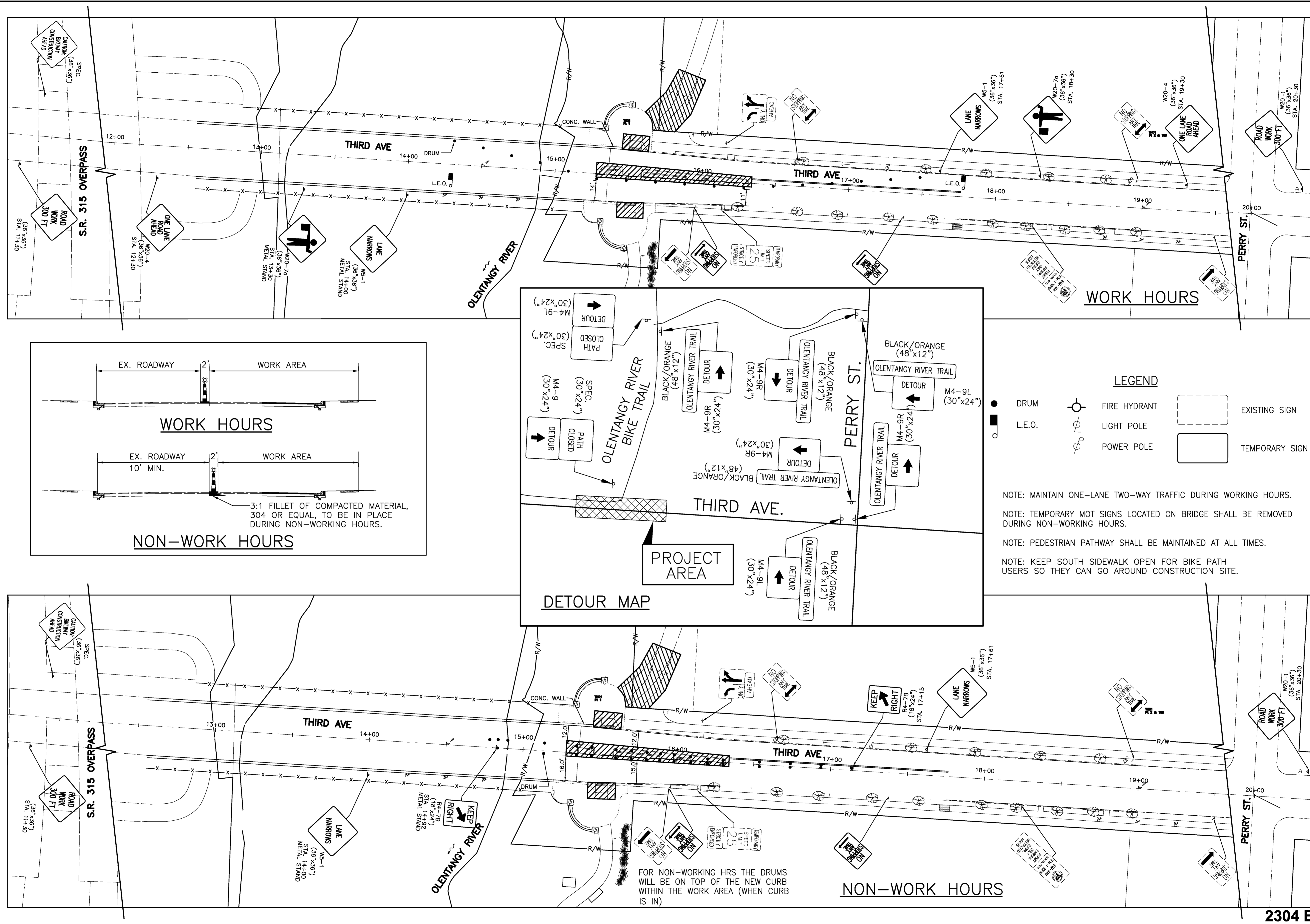


BY 5-19-08
Registered Engineer Date

POD design
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Columbus, OH 43215
p. 614.255.3399 f. 614.255.3999
www.poddesign.net
planning landscape architecture graphic communication

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880 KING AVENUE
COLUMBUS, OHIO 43212
(614) 299-2999 Fax (614) 299-2992

CONSTRUCTION PROJECT NO. 21601
TRAFFIC ISLANDS / PLANTERS
THIRD AVE. EAST OF OLENTANGY RIVER RD.
SSI OVERALL TRAFFIC MANAGEMENT PLAN
CITY OF COLUMBUS
1/26

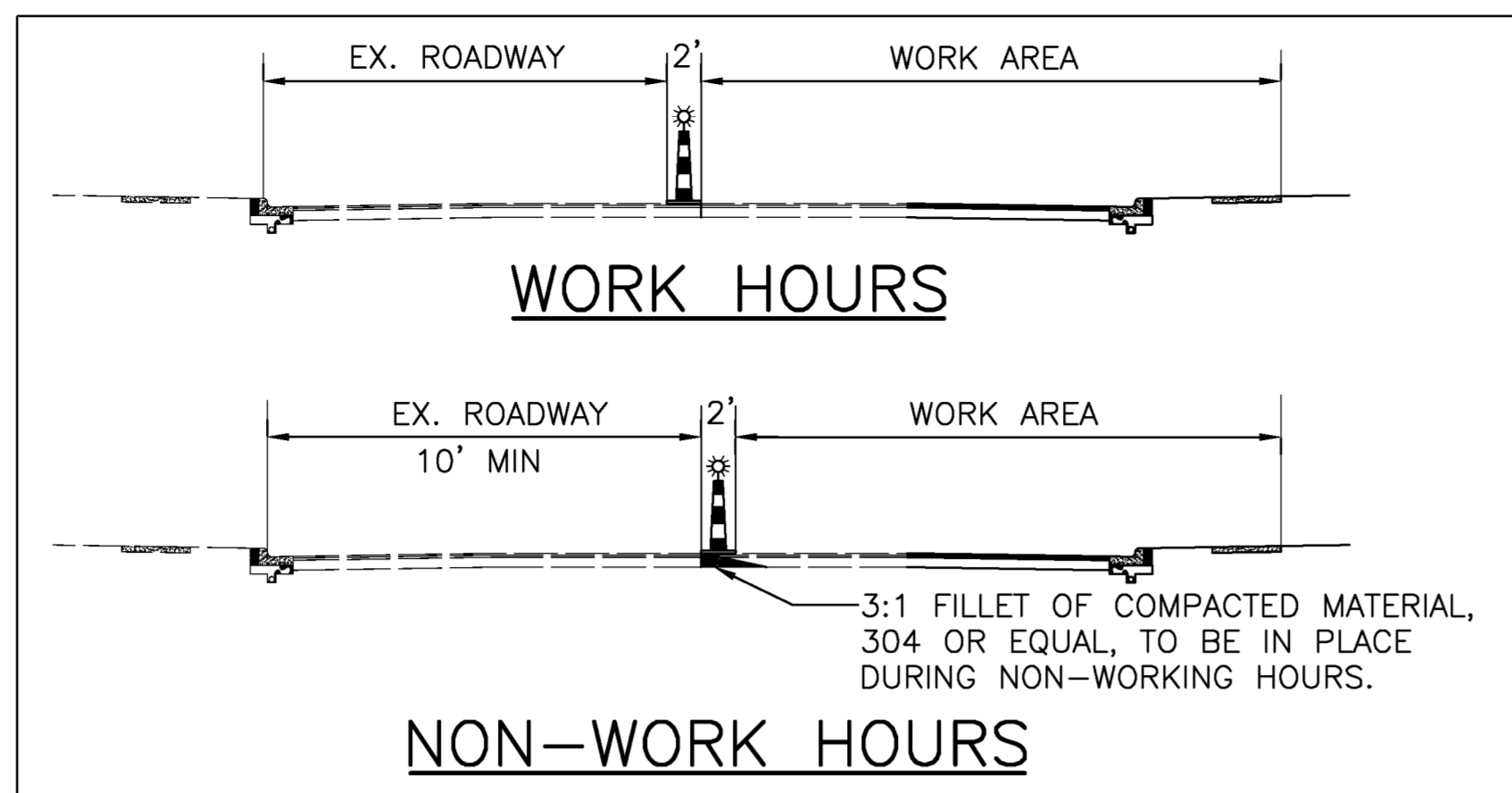


LEGEND

- DRUM
- L.E.O.
- FIRE HYDRANT
- LIGHT POLE
- POWER POLE
- EXISTING SIGN
- TEMPORARY SIGN

NOTE: MAINTAIN ONE-LANE TWO-WAY TRAFFIC DURING WORKING HOURS.
 NOTE: TEMPORARY MOT SIGNS LOCATED ON BRIDGE SHALL BE REMOVED DURING NON-WORKING HOURS.
 NOTE: PEDESTRIAN PATHWAY SHALL BE MAINTAINED AT ALL TIMES.
 NOTE: KEEP SOUTH SIDEWALK OPEN FOR BIKE PATH USERS SO THEY CAN GO AROUND CONSTRUCTION SITE.

Drawing: K:\218011\Draw\Third East of Olen tangy River\Draw\Phase2.dwg Saved on: 05-01-08 14:19 Revised by: cdm -L:trader, 1:00 -Plot scale 1=1/8"=1'-0"



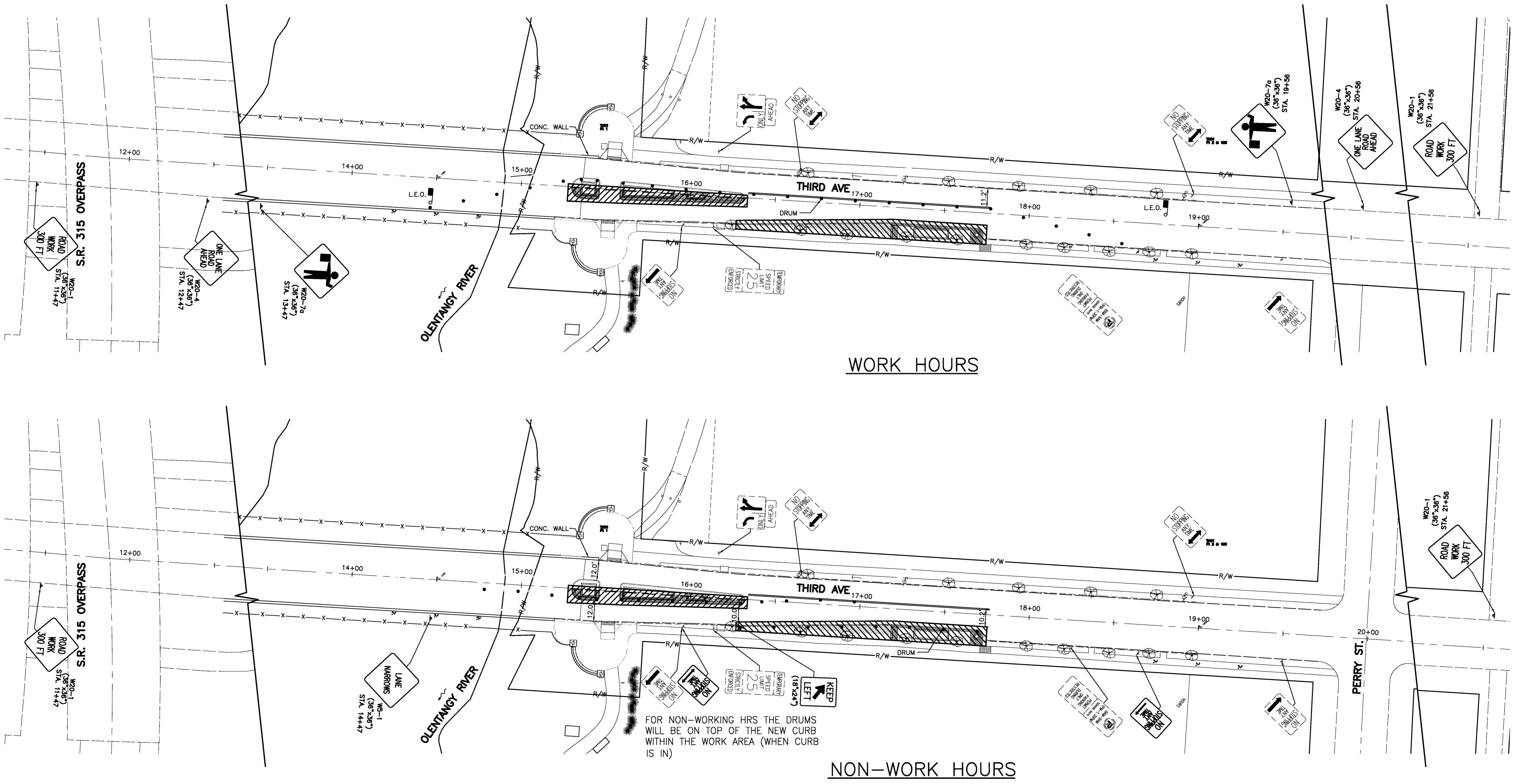
NOTE: MAINTAIN ONE LANE TWO WAY TRAFFIC DURING WORKING HOURS

NOTE: TEMPORARY SIGNS ON BRIDGE SHALL BE REMOVED FROM SIDEWALK DURING NON-WORKING HOURS.

NOTE: PEDESTRIAN PATHWAY SHALL BE MAINTAINED AT ALL TIMES.

LEGEND

- TEMPORARY SIGN 1 POST
- TEMPORARY SIGN 2 POST
- EXISTING SIGN
- DRUM
- L.E.O.
- FIRE HYDRANT
- LIGHT POLE
- POWER POLE
- EXISTING SIGN
- TEMPORARY SIGN



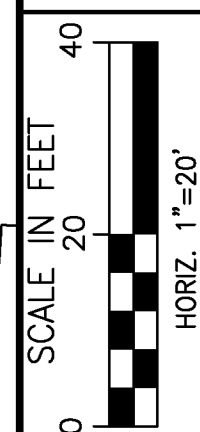
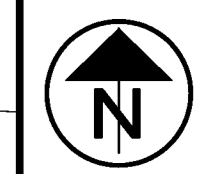
SCALE IN FEET
0 30 60
HORIZ. 1"=30'

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WRH

CHECKED
SIW

**MAINTENANCE OF TRAFFIC-PHASE 2
THIRD AVE EAST OF OLENTANGY RIVER RD.**

**SSI OVERALL TRAFFIC MANAGEMENT PLAN
CITY OF COLUMBUS**

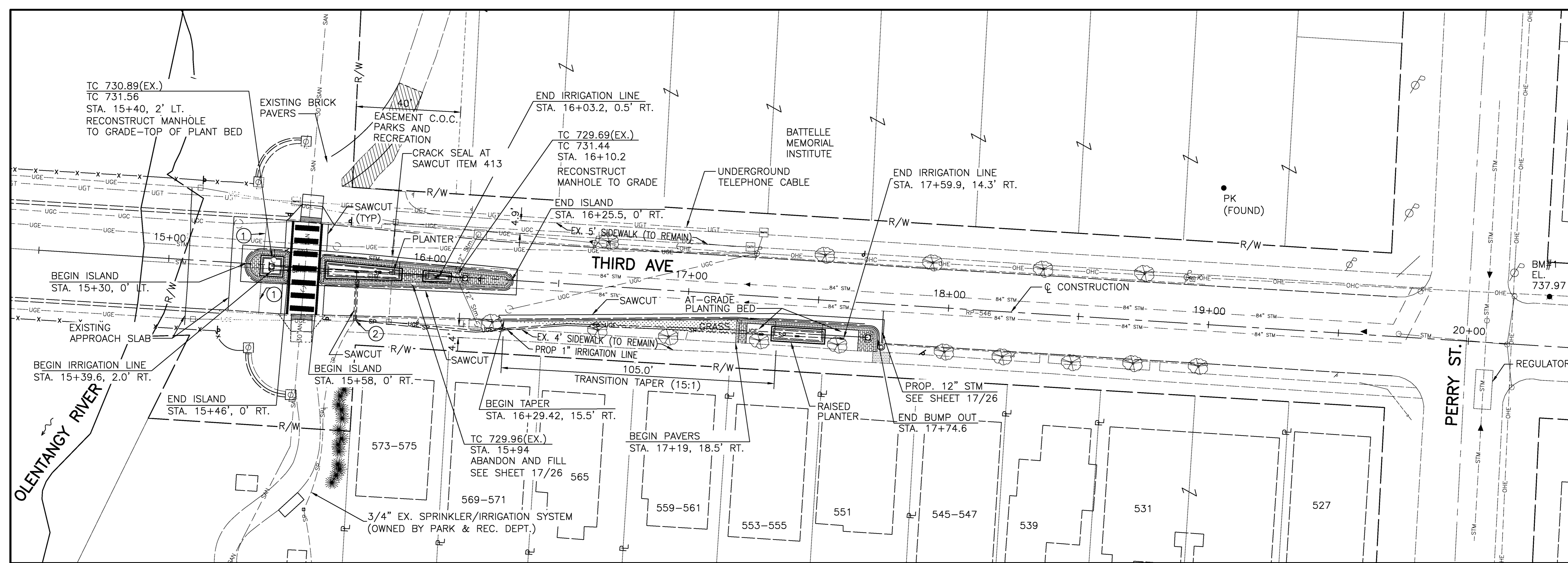


CALCULATED JMM
CHECKED JAR

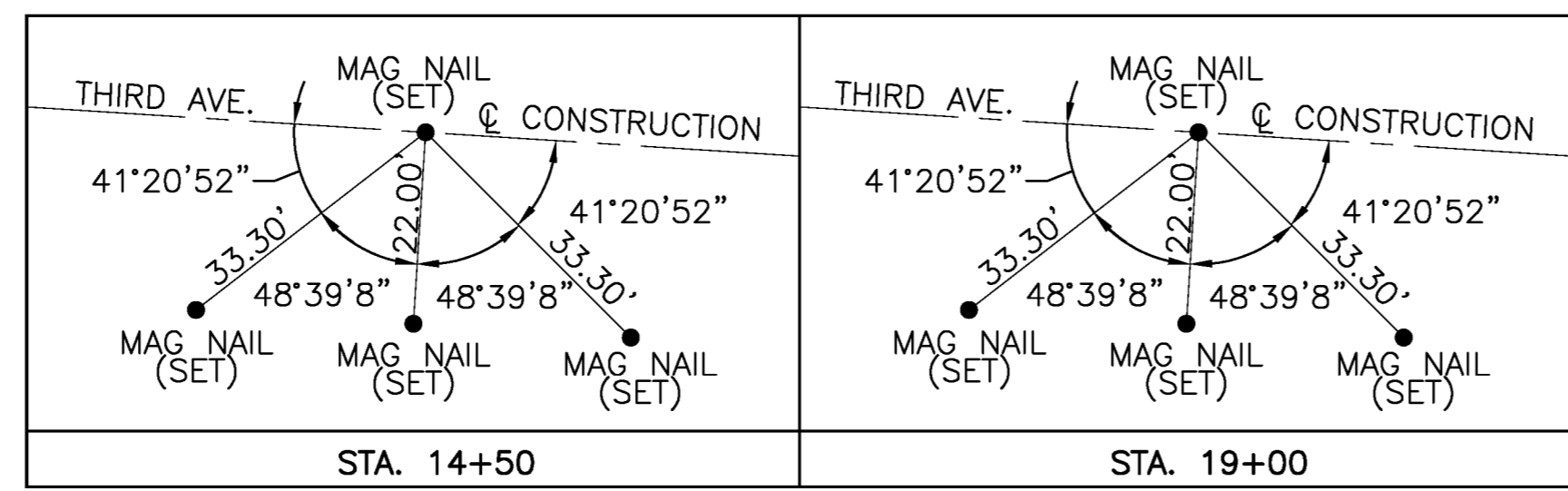
**PLAN SHEET
THIRD AVE EAST OF OLENTANGY RIVER RD.**

**SSI OVERALL TRAFFIC MANAGEMENT PLAN
CITY OF COLUMBUS**

10
26



- NOTE:**
STREETSCAPE FEATURES SHOWN ARE SCHEMATIC ONLY
- REMOVE 2' ASPHALT CONCRETE ALONG PVMT CRACK, 12" ON EITHER SIDE, TO DEPTH OF EXISTING ASPHALT. REPLACE PER 1441 DR. A.
 - CONTRACTOR SHALL LOCATE TERMINUS OF EXISTING IRRIGATION SYSTEM PRIOR TO LAYING OUT PROPOSED IMPROVEMENTS. CONNECTIONS TO EXISTING LINES SHALL BE INCLUDED IN ALTERNATE 3.

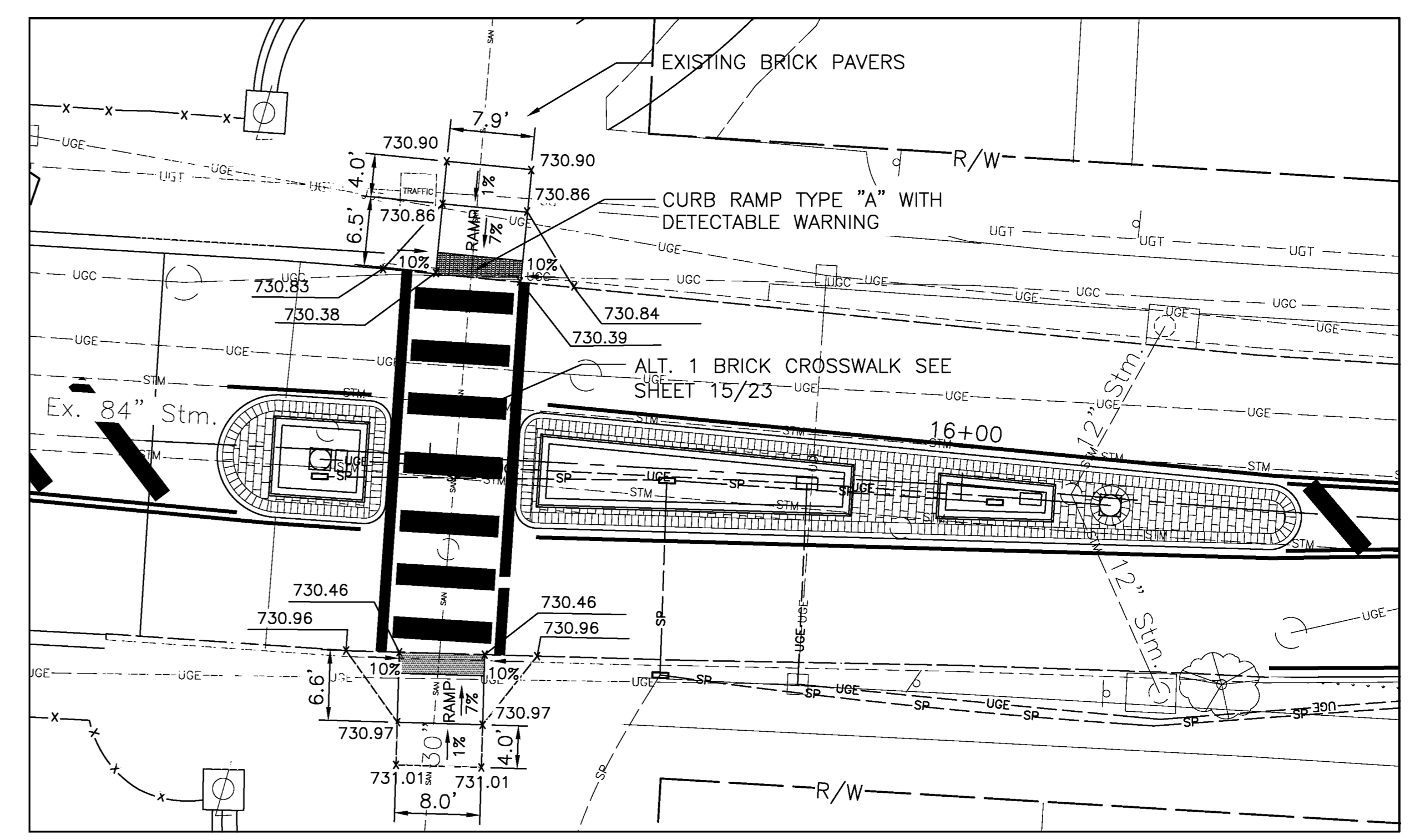


CENTERLINE REFERENCES
SCALE: 1"=20'

NOTE: SEE SHEET 21/26 FOR LIGHTING WORK TO BE NON-PERFORMED.

Legend	
TC	Top of Casting
CB	Ex. Catch Basin
CI	Ex. Curb Inlet
○	Ex. Manhole
A	Ex. Fire Hydrant
⊙	Ex. Valve
⊙	Ex. Utility Pole
---stm---	Ex. Storm Sewer
⊙	Ex. Tree
---	Ex. Irrigation Line
⊙	Ex. Curb Inlet
---	Proposed Storm Sewer
--- <td>Ex. Underground Electric</td>	Ex. Underground Electric
--- <td>Ex. Overhead Electric</td>	Ex. Overhead Electric
--- <td>Ex. Underground Cable</td>	Ex. Underground Cable
--- <td>Ex. Gas Line</td>	Ex. Gas Line
--- <td>Ex. Water Line</td>	Ex. Water Line
--- <td>Ex. Sanitary Sewer</td>	Ex. Sanitary Sewer
--- <td>Ex. Underground Traffic</td>	Ex. Underground Traffic
--- <td>Prop. Irrigation Line</td>	Prop. Irrigation Line

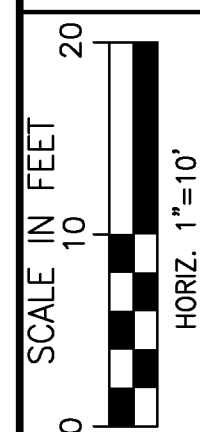
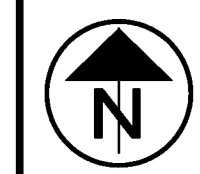
BM#1: E. MOST TOP FLANGE BOLT ON F.H. 13'± E. OF M.H. ON N.E. CORNER OF PERRY ST. AND THIRD AVE. STA. 20+30.0, 19.10' LT., ELEV. 737.97



CURB RAMPS
SCALE: 1"=10'

DETECTABLE WARNINGS SHALL BE AS PER CITY OF COLUMBUS SUPPLEMENTAL SPECIFICATION 1551.

Drawing: K:\2304011\City\Third East of Olentangy\2304011\TrafficManagement.dwg Saved on: 12-10-08 10:05 Revised by: cdm -L:leader, 1:00 -R:c, scale 1"=10'

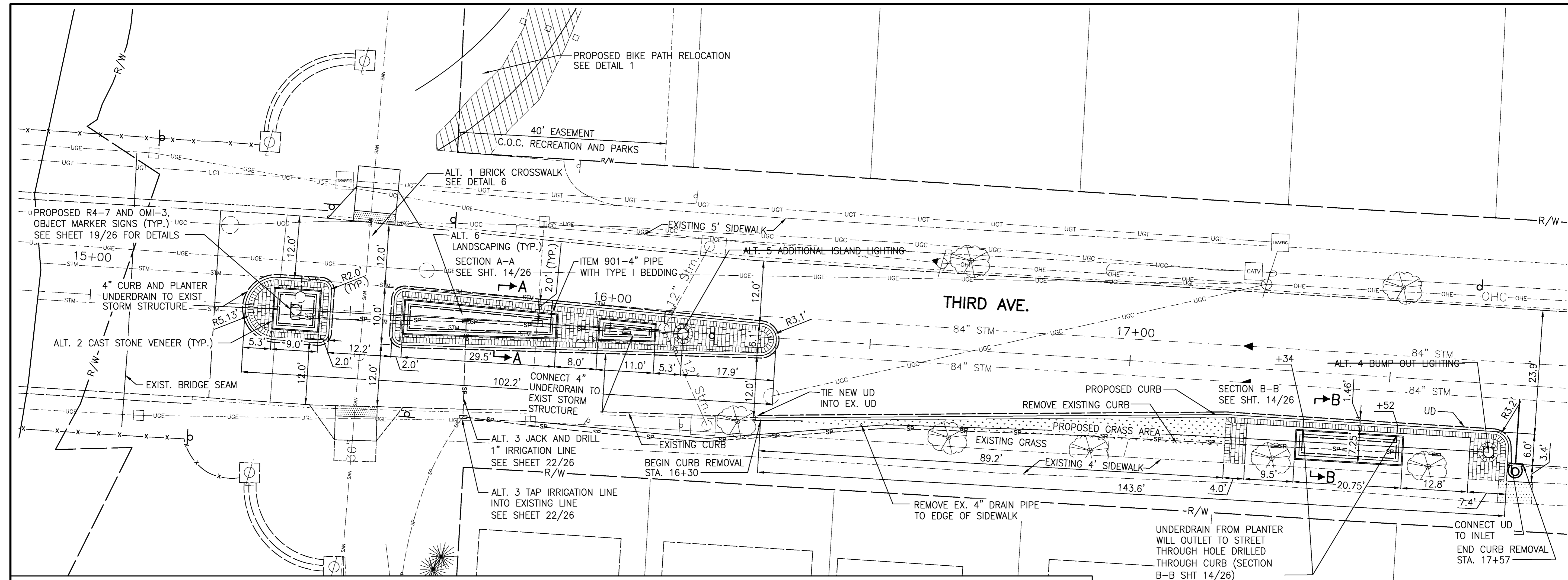


CALCULATED JNM
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PLAN DETAILS
THIRD AVE EAST OF OLENTANGY RIVER RD.

SSI OVERALL TRAFFIC MANAGEMENT PLAN
CITY OF COLUMBUS

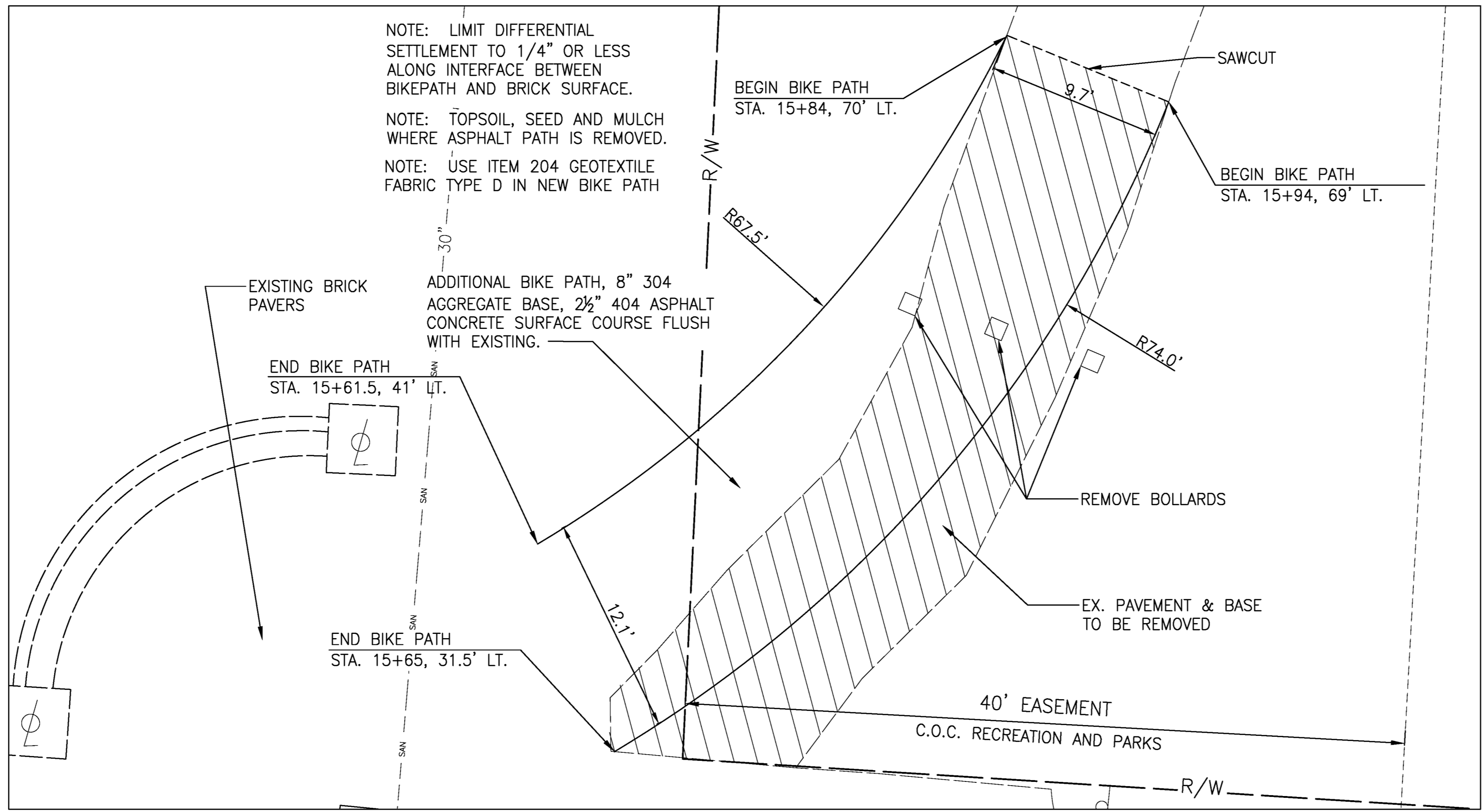
11
26



- ALT. 1: BRICK CROSSWALK
- ALT. 2: CAST STONE VENEER
- ALT. 3: IRRIGATION
- ~~ALT. 4: BUMPOUT LIGHTING~~
- ~~ALT. 5: ADDITIONAL ISLAND LIGHTING~~
- ALT. 6: LANDSCAPING

NOTE: SEE SHEET 21/26 FOR LIGHTING WORK TO BE NON-PERFORMED.

- NOTE: LIMIT DIFFERENTIAL SETTLEMENT TO 1/4" OR LESS ALONG INTERFACE BETWEEN BIKEPATH AND BRICK SURFACE.
- NOTE: TOPSOIL, SEED AND MULCH WHERE ASPHALT PATH IS REMOVED.
- NOTE: USE ITEM 204 GEOTEXTILE FABRIC TYPE D IN NEW BIKE PATH



DETAIL 1-BIKE PATH RELOCATION

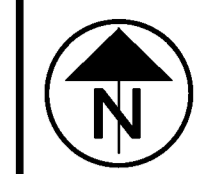
SCALE: 1"=5'

NOTE: THE CONTRACTOR IS PERMITTED TO MAKE MODEST VARIATIONS IN THE PLANTER DIMENSIONS TO REDUCE THE NUMBER OF BRICK CUTS INVOLVED IN INSTALLING THE BRICKS.

Legend

TC	Top of Casting	⊙	Ex. Curb Inlet
□	Ex. Catch Basin	—	Proposed Storm Sewer
⊙	Ex. Curb Inlet	—UGC—	Ex. Underground Electric
⊙	Ex. Manhole	—OHE—	Ex. Overhead Electric
⊙	Ex. Fire Hydrant	—C—	Ex. Underground Cable
⊙	Ex. Valve	—G—G—	Ex. Gas Line
⊙	Ex. Utility Pole	—W—W—	Ex. Water Line
—stm—stm—	Ex. Storm Sewer	—san—san—	Ex. Sanitary Sewer
⊙	Ex. Tree	—UGT—	Ex. Underground Traffic
—SP—	Ex. Irrigation Line	—SP—	Prop. Irrigation Line
⊙	Ex. Sign	⊙	Prop. Sign

Drawing: K:\210017\Draw\Third East of Olentangy\210017\Draw\11-26-11.dwg View: V3 Saved on: 12-01-11 10:33 PM created by: cjm -L:scale: 1:10 -Plot scale: 1=10/32



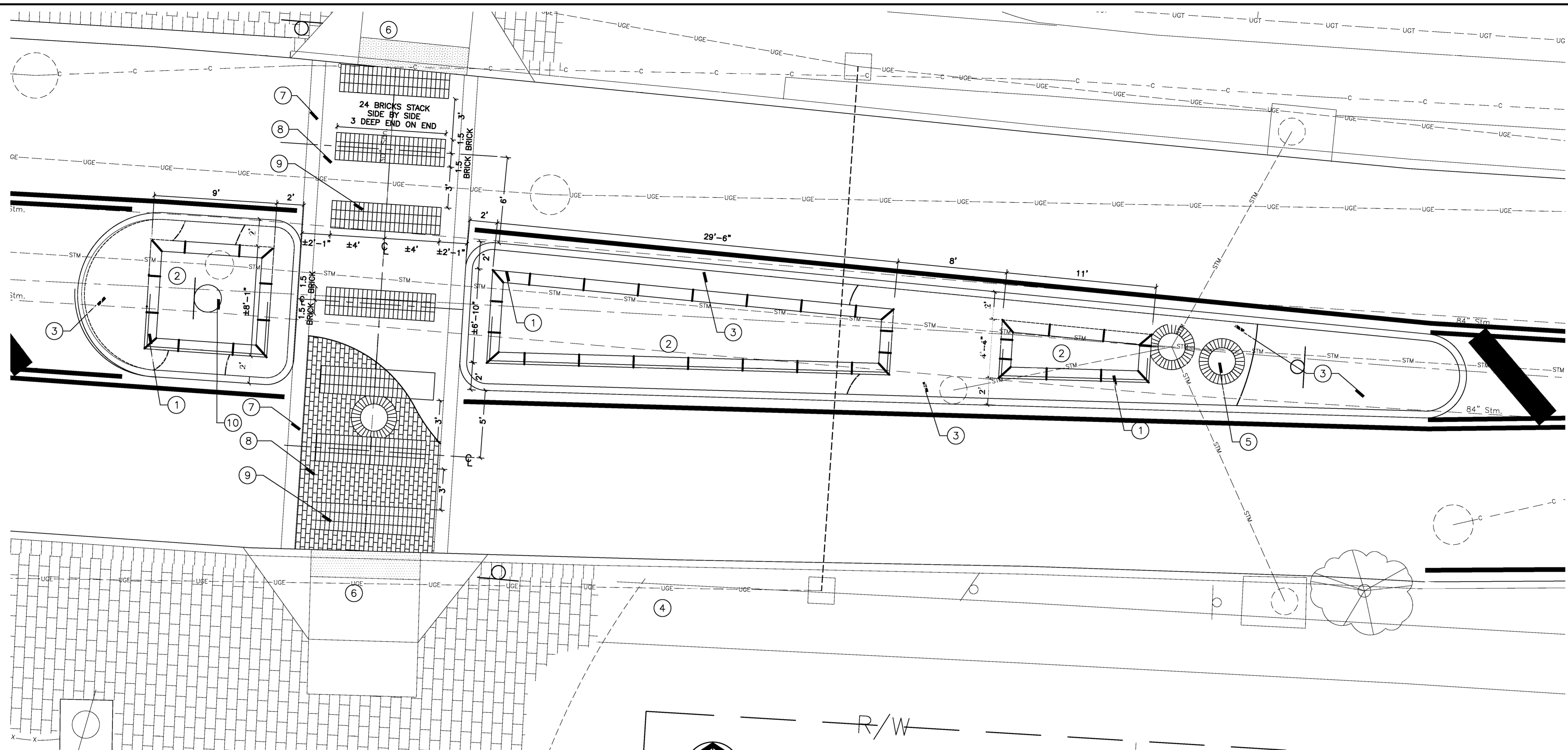
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SJK

MEDIAN PLANTER & PAVER LAYOUT
THIRD AVE EAST OF OLENTANGY RIVER RD

SSI OVERALL TRAFFIC MANAGEMENT PLAN
CITY OF COLUMBUS

12
26



THIRD AVE MEDIAN

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

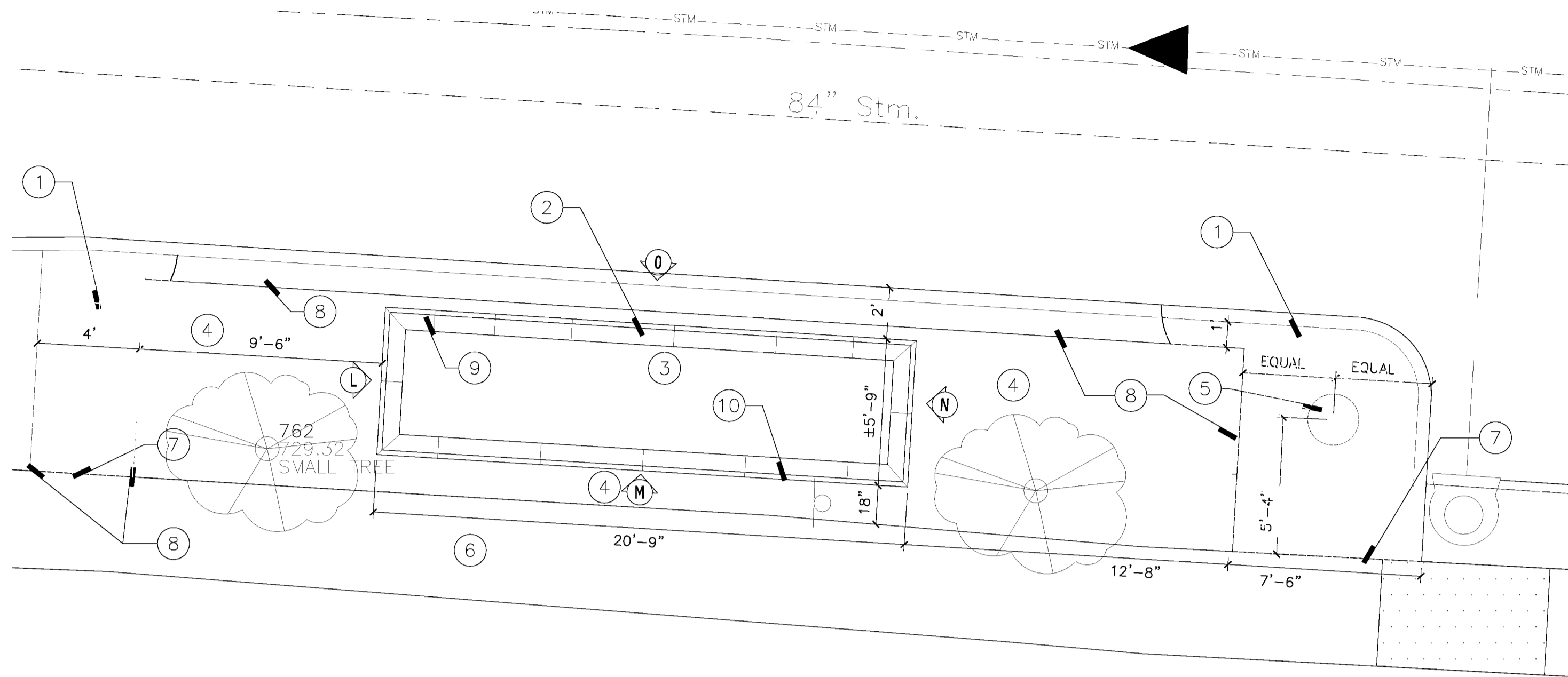


GENERAL AND LAYOUT NOTES

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WITH WORK. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE PLANS AND ACTUAL SITE CONDITIONS. NO WORK SHALL BE DONE IN AREAS WHERE SUCH DISCREPANCIES EXIST.
2. DO NOT SCALE DRAWINGS. UTILIZE DIMENSIONS INDICATED ON THE PLANS.
3. THE CONTRACTOR SHALL COORDINATE ALL WORK AND BE RESPONSIBLE FOR ALL METHODS, MEANS, SEQUENCE, AND PROCEDURES OF THE WORK.
4. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL LINE WORK, LAYOUT AND DIMENSIONS ARE PARALLEL AND PERPENDICULAR TO ONE ANOTHER.
5. DO NOT DISTURB AREAS OUTSIDE OF CONSTRUCTION LIMITS WITHOUT PRIOR APPROVAL OF OWNER'S REPRESENTATIVE.
6. PROTECT EXISTING FACILITIES DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES RESULTING FROM CONSTRUCTION ACTIVITIES.
7. SEE ENGINEERING PLANS FOR SPOT GRADES. MAINTAIN POSITIVE DRAINAGE IN ALL AREAS.
8. LOCATE AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES RESULTING FROM CONSTRUCTION ACTIVITIES. CONTACT OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-2764 PRIOR TO EXCAVATION.
9. NOTIFY OWNER AND OWNER'S REPRESENTATIVE TO REVIEW LAYOUT STAKING AND DIRECT FIELD MODIFICATIONS AS NEEDED PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES

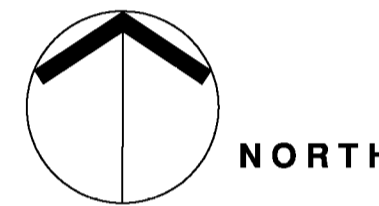
CODED NOTES

- ① PLANTER, SEE SECTION A-A THROUGH MEDIAN
- ② RAISED PLANTING BED, SEE LANDSCAPE PLANS FOR PLANT MATERIAL LAYOUT
- ③ BRICK PAVING ON CONCRETE, MATCH EXISTING SIDEWALK PAVERS. SEE SECTION A-A THROUGH MEDIAN
- ④ EXISTING SIDEWALK
- ⑤ LIGHT POLE ON PAVERS, SEE DETAIL 8, PAVING AT STREETLIGHT
- ⑥ HANDICAP RAMPS, SEE SECTION D-D THROUGH ADA RAMP
- ⑦ CONCRETE BAND FOR CROSSWALK, SEE SECTION C-C THROUGH CROSSWALK
- ⑧ HEAVY DUTY BRICK IN CROSSWALK, SEE SECTION C-C THROUGH CROSSWALK
- ⑨ CONTRASTING BRICK IN CROSSWALK (COLOR TO BE APPROVED BY TRANSPORTATION DIVISION)
- ⑩ LIGHT POLE IN PLANTER, CONCRETE FOOTING TO BE FLUSH WITH FINAL GRADE



THIRD AVE BUMPOUT

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

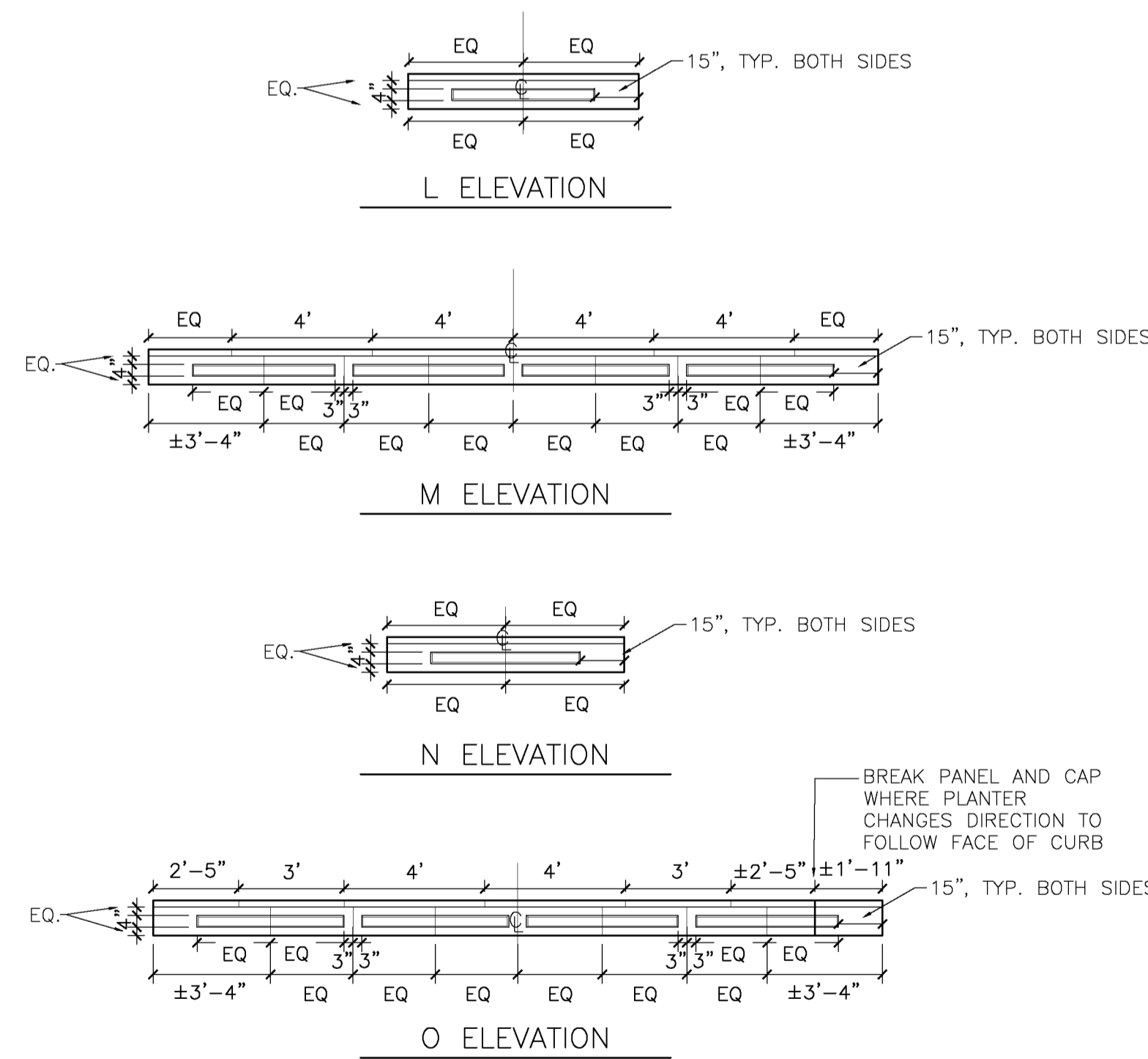


GENERAL AND LAYOUT NOTES

1. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WITH WORK. NOTIFY THE OWNER'S REPRESENTATIVE OF ANY DISCREPANCY BETWEEN THE PLANS AND ACTUAL SITE CONDITIONS. NO WORK SHALL BE DONE IN AREAS WHERE SUCH DISCREPANCIES EXIST.
2. DO NOT SCALE DRAWINGS. UTILIZE DIMENSIONS INDICATED ON THE PLANS.
3. THE CONTRACTOR SHALL COORDINATE ALL WORK AND BE RESPONSIBLE FOR ALL METHODS, MEANS, SEQUENCE, AND PROCEDURES OF THE WORK.
4. UNLESS OTHERWISE INDICATED ON THE PLANS, ALL LINE WORK, LAYOUT AND DIMENSIONS ARE PARALLEL AND PERPENDICULAR TO ONE ANOTHER.
5. DO NOT DISTURB AREAS OUTSIDE OF CONSTRUCTION LIMITS WITHOUT PRIOR APPROVAL OF OWNER'S REPRESENTATIVE.
6. PROTECT EXISTING FACILITIES DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES RESULTING FROM CONSTRUCTION ACTIVITIES.
7. SEE ENGINEERING PLANS FOR SPOT GRADES. MAINTAIN POSITIVE DRAINAGE IN ALL AREAS.
8. LOCATE AND PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING UTILITIES RESULTING FROM CONSTRUCTION ACTIVITIES. CONTACT OHIO UTILITIES PROTECTION SERVICE AT 1-800-362-2764 PRIOR TO EXCAVATION.
9. NOTIFY OWNER AND OWNER'S REPRESENTATIVE TO REVIEW LAYOUT STAKING AND DIRECT FIELD MODIFICATIONS AS NEEDED PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES.

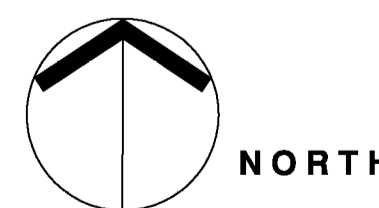
CODED NOTES

- ① BRICK PAVING, MATCH 3RD AVE SIDEWALK BRICK AT CROSSWALK
- ② PLANTER, SEE SECTION B-B THROUGH BUMPOUT
- ③ RAISED PLANTING BED, SEE LANDSCAPE PLANS FOR PLANT MATERIAL LAYOUT
- ④ AT GRADE PLANTING BED, SEE LANDSCAPE PLANS FOR PLANT MATERIAL LAYOUT
- ⑤ LIGHT POLE ON PAVERS, SEE DETAIL 8, PAVING AT STREETLIGHT
- ⑥ EXISTING SIDEWALK
- ⑦ PAVING TO BE FLUSH AT EXISTING SIDEWALK
- ⑧ STEEL EDGE RESTRAINT, 4" DEPTH X 3/16" THICK
- ⑨ PLANTER EDGE TO RUN PARALLEL TO CURB FACE
- ⑩ PLANTER EDGE TO RUN PARALLEL TO SIDEWALK EDGE



ALT. 2 CAST STONE VENEER DETAILS

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

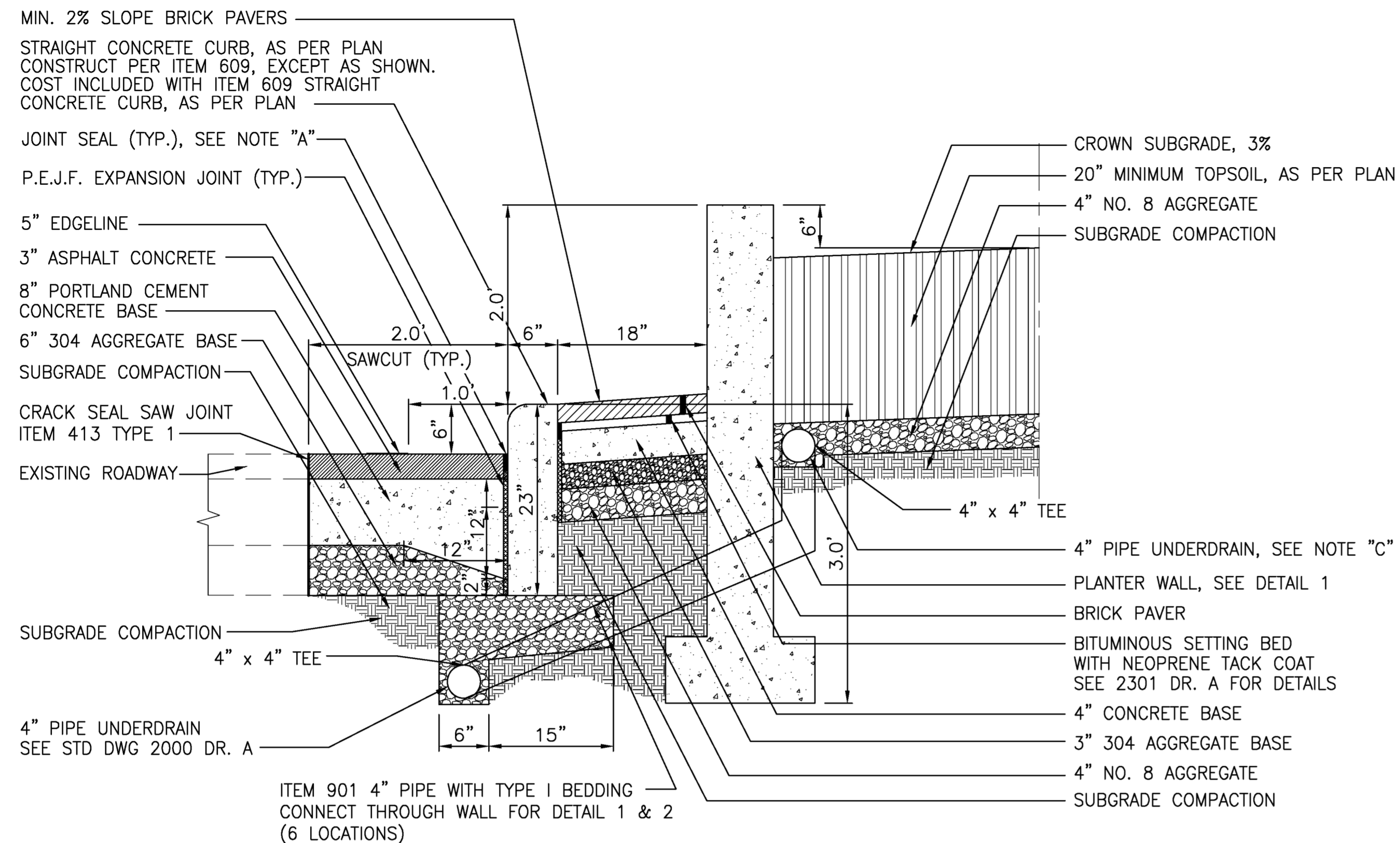


SCALE IN FEET
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1/4" = 1'-0"

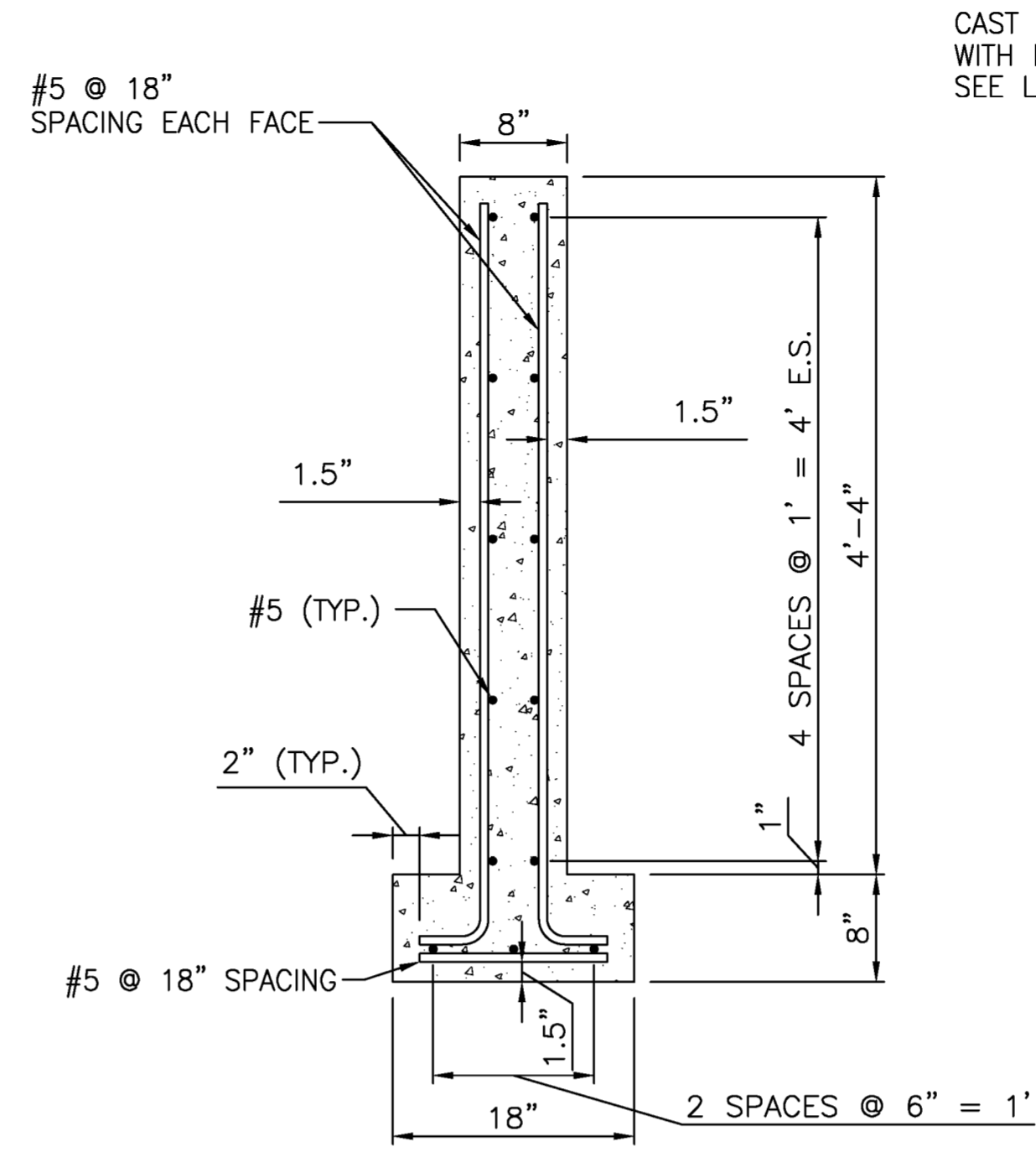
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**BUMP-OUT PLANTER & PAVER LAYOUT
THIRD AVE EAST OF OLENTANGY RIVER RD**

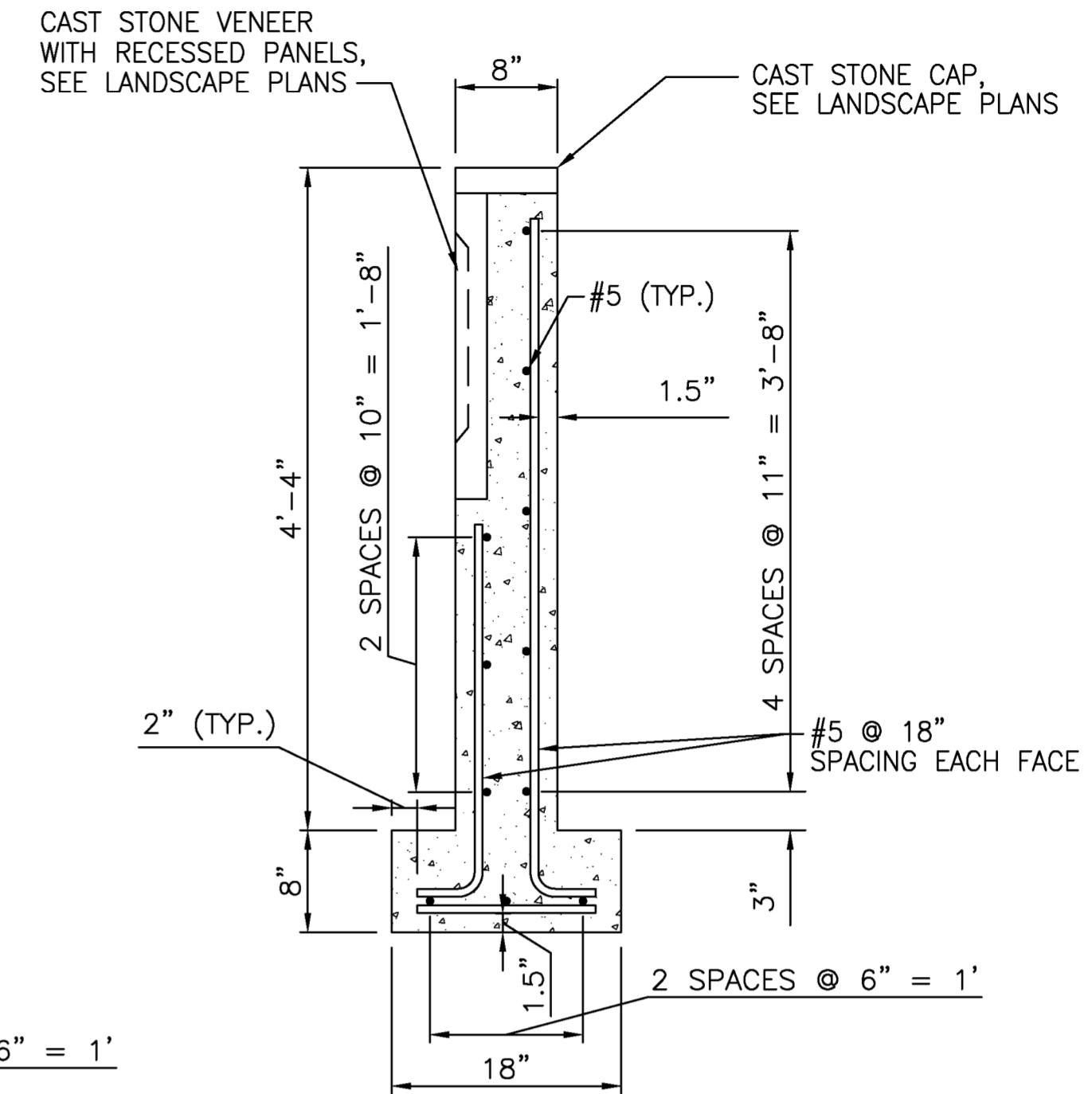
**SSI OVERALL TRAFFIC MANAGEMENT PLAN
CITY OF COLUMBUS**



SECTION A-A THROUGH MEDIAN
(NOT TO SCALE)



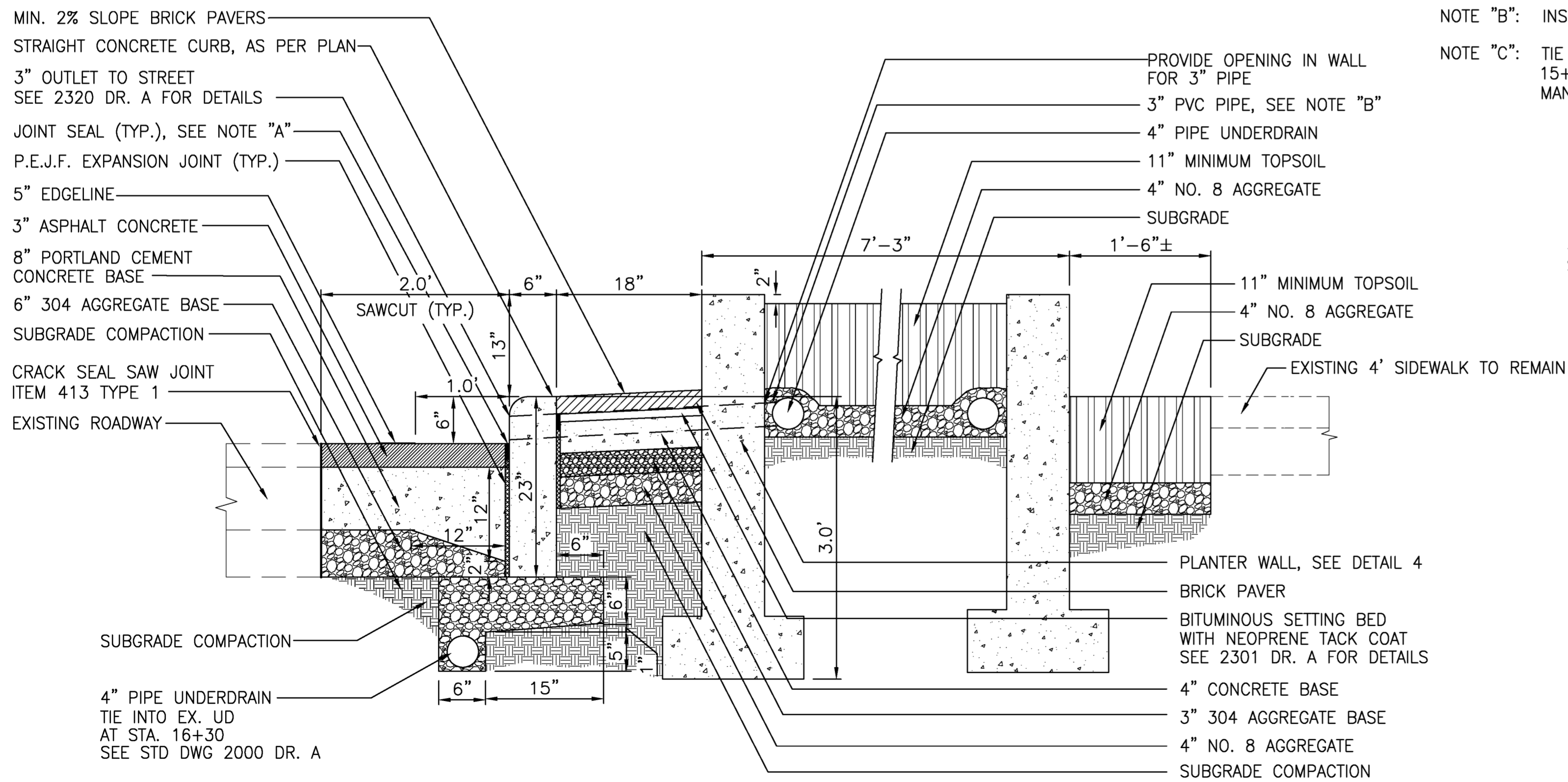
DETAIL 2-ISLAND PLANTER WALL
(NOT TO SCALE)



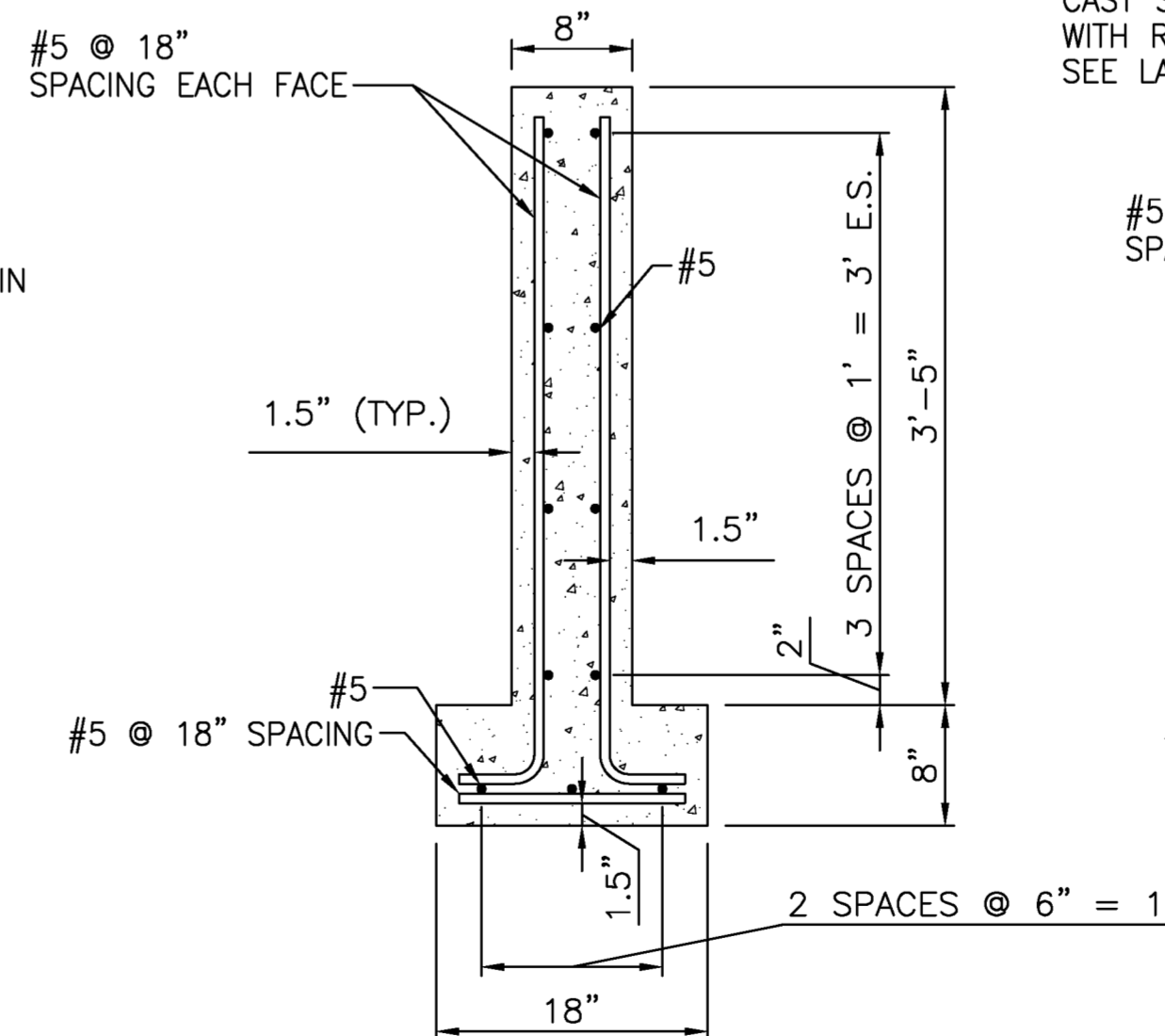
DETAIL 3-ISLAND PLANTER WALL WITH CAST STONE VENEER (ALT. 2)
(NOT TO SCALE)

- NOTE "A": PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL, 705.11 (1/4" WIDE FOR A 1/2" WIDE GROOVE) PLACED IN 1/2" X 3/4" GROOVE.
- NOTE "B": INSERT END OF UNDERDRAIN INTO 3" PVC PIPE
- NOTE "C": TIE WEST MEDIAN PLANTER UNDERDRAIN INTO MANHOLE AT STA. 15+40 AND CONNECT TWO EAST MEDIAN PLANTERS AND TIE INTO MANHOLE AT STA. 16+10

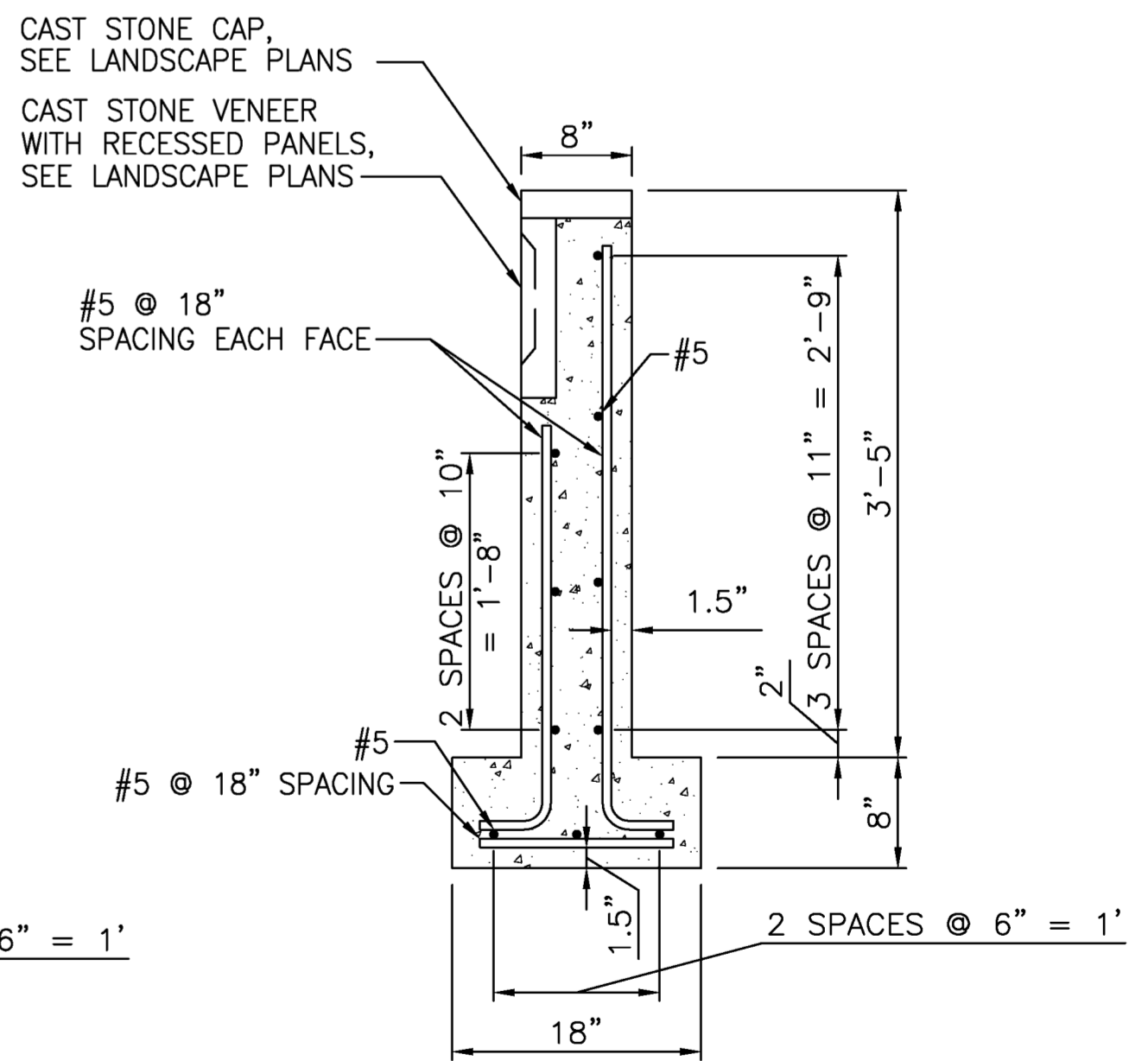
- NOTE: WALLS SHALL BE OF CONCRETE CLASS C-f'c=4000 PSI WITH REINFORCING STEEL ASTM A615, A616, OR A617, Fy=60,000 PSI. ALL REBAR SHALL BE EPOXY COATED.
- NOTE: REINFORCING SHALL BE INCLUDED WITH CONCRETE WALL FOR PAYMENT.
- NOTE: ALL EXPOSED SURFACES OF CONCRETE CURB SHALL HAVE A BRUSH FINISH. USE A CLEAR CURING COMPOUND AND SEAL FOR CONCRETE CURBS.



SECTION B-B THROUGH BUMP-OUT
(NOT TO SCALE)

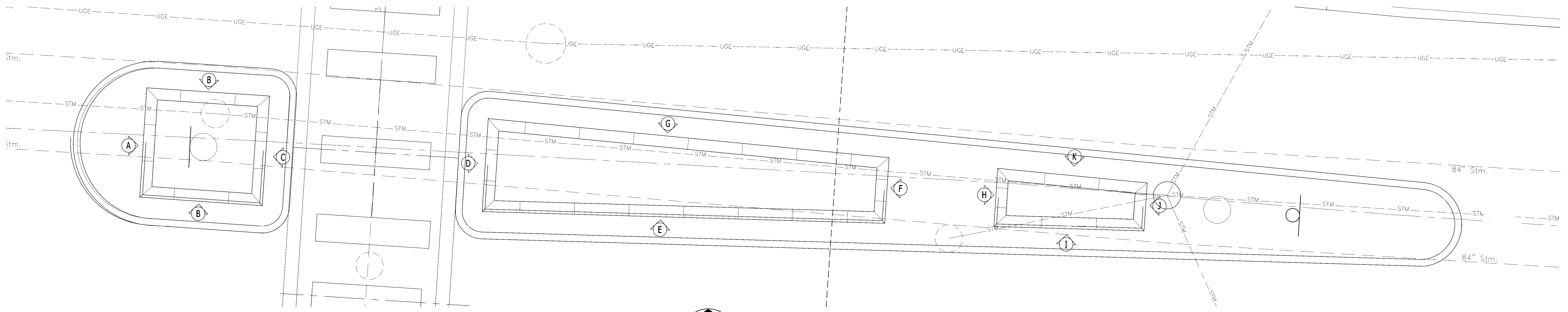


DETAIL 4-BUMP-OUT PLANTER WALL
(NOT TO SCALE)



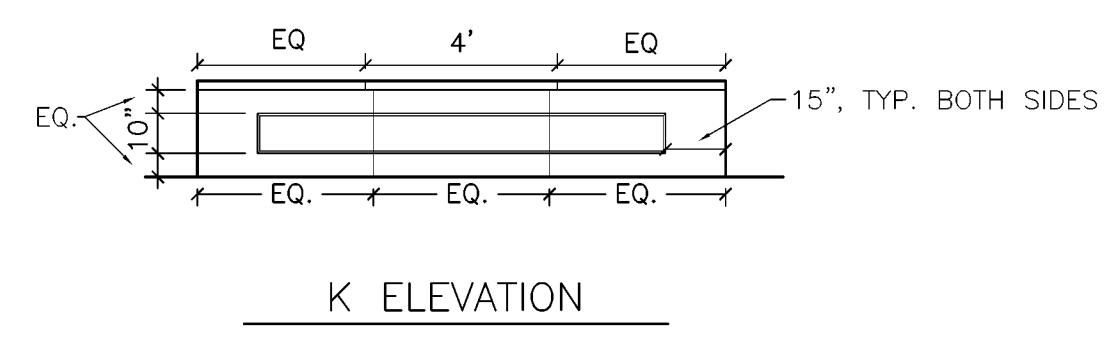
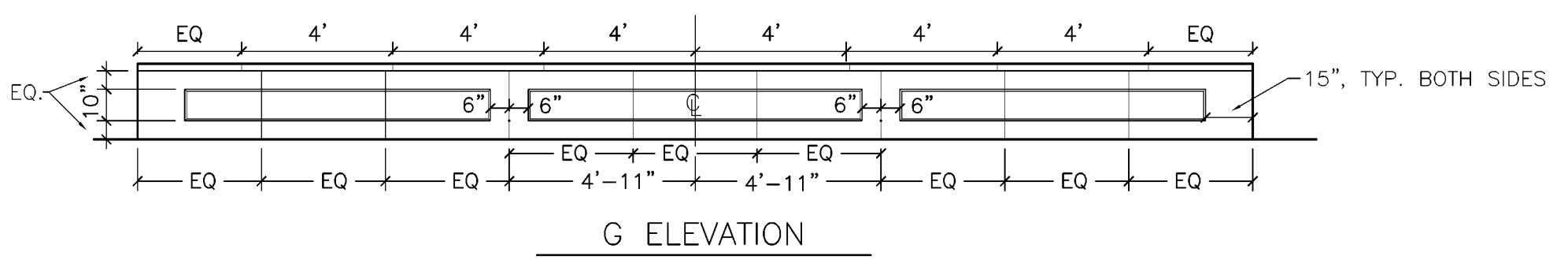
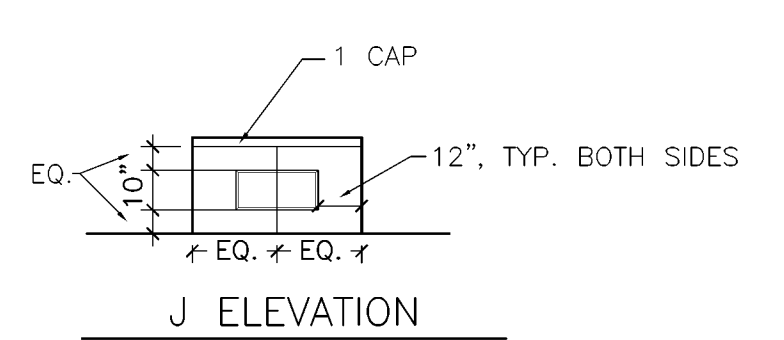
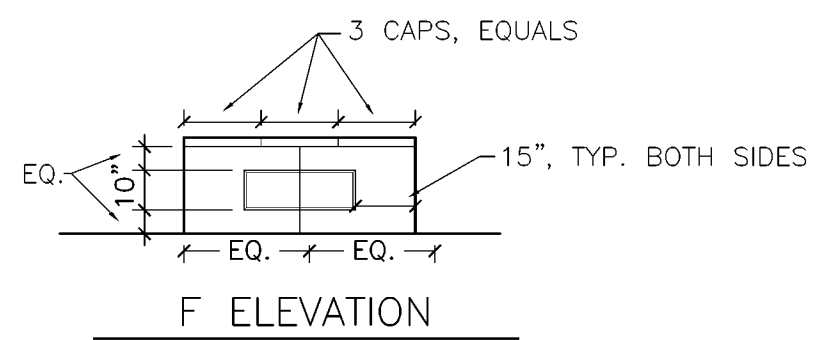
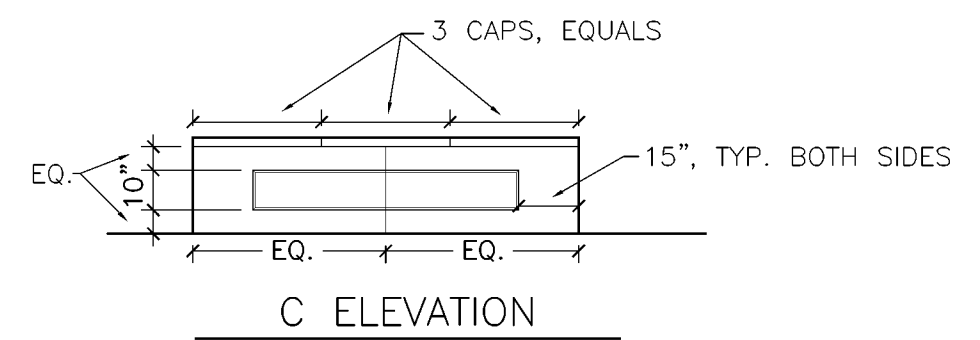
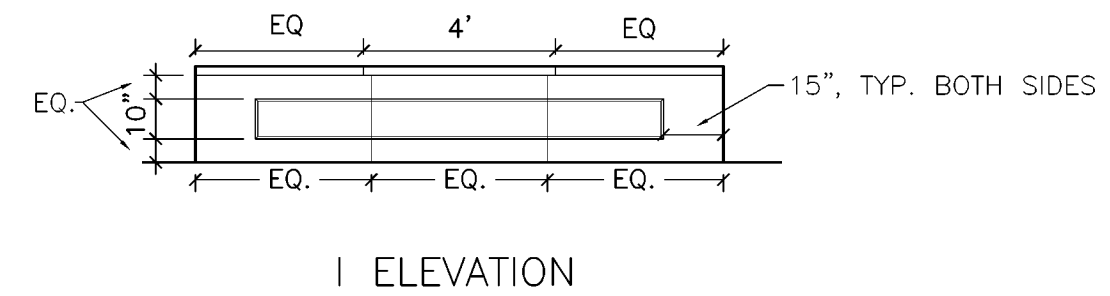
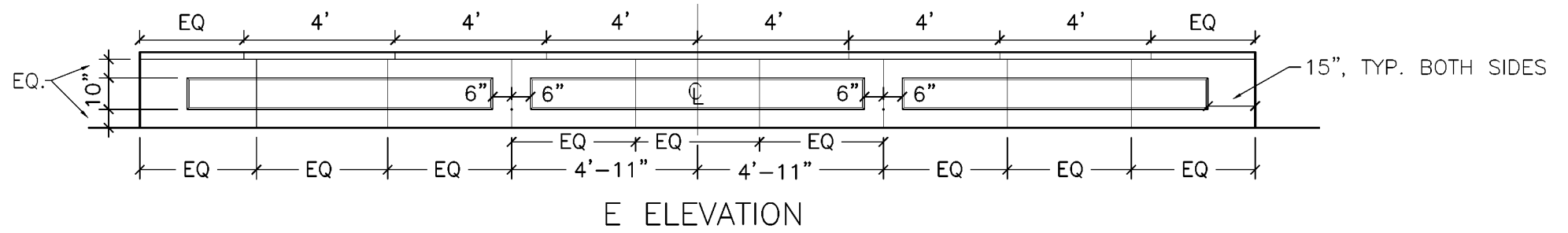
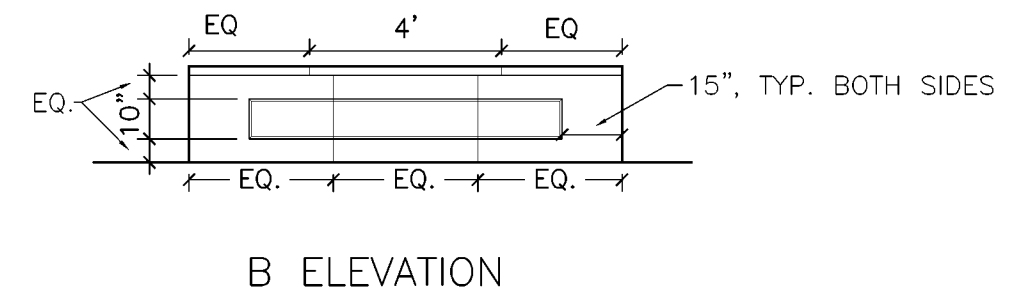
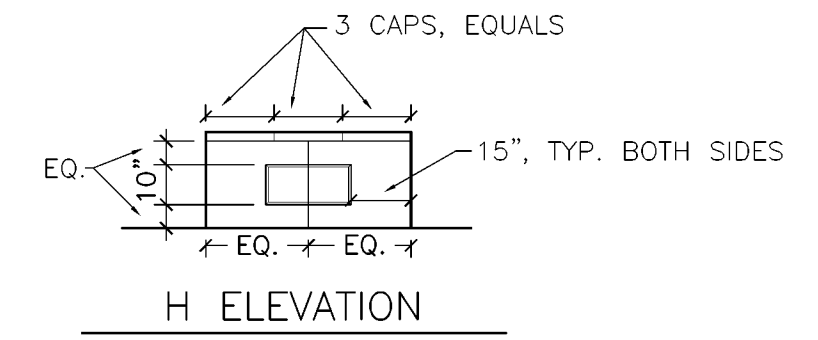
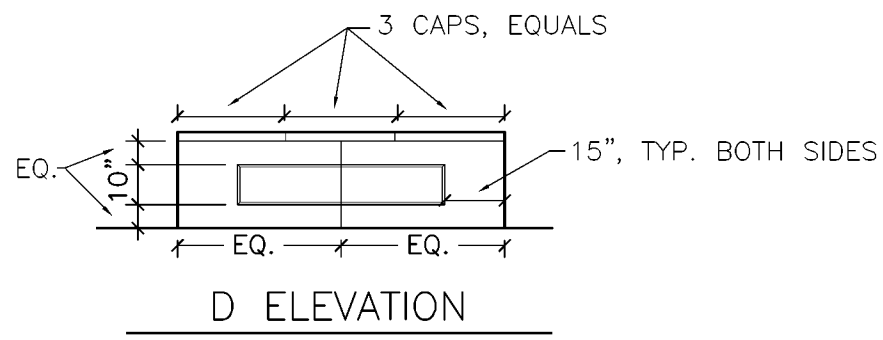
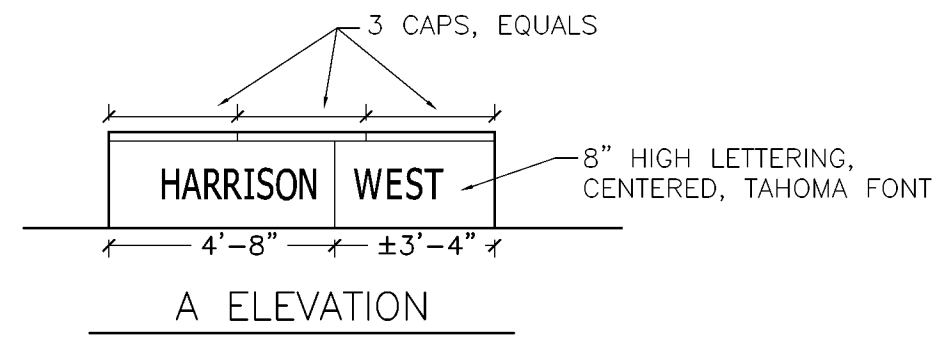
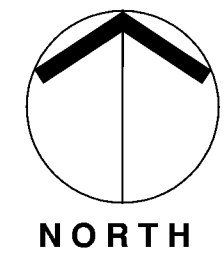
DETAIL 5-BUMP-OUT PLANTER WALL WITH CAST STONE VENEER (ALT. 2)
(NOT TO SCALE)

Drawing: K:\210017\Draw\Third East of Oletangy\210017.dwg User: VJ Saved on: 05-20-08 09:33:37 Revised by: cdm - L:\cadd: 1:00 - Plot scale: 1"=1'-00"/35



THIRD AVE MEDIAN

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



ALT 2. CAST STONE VENEER DETAILS

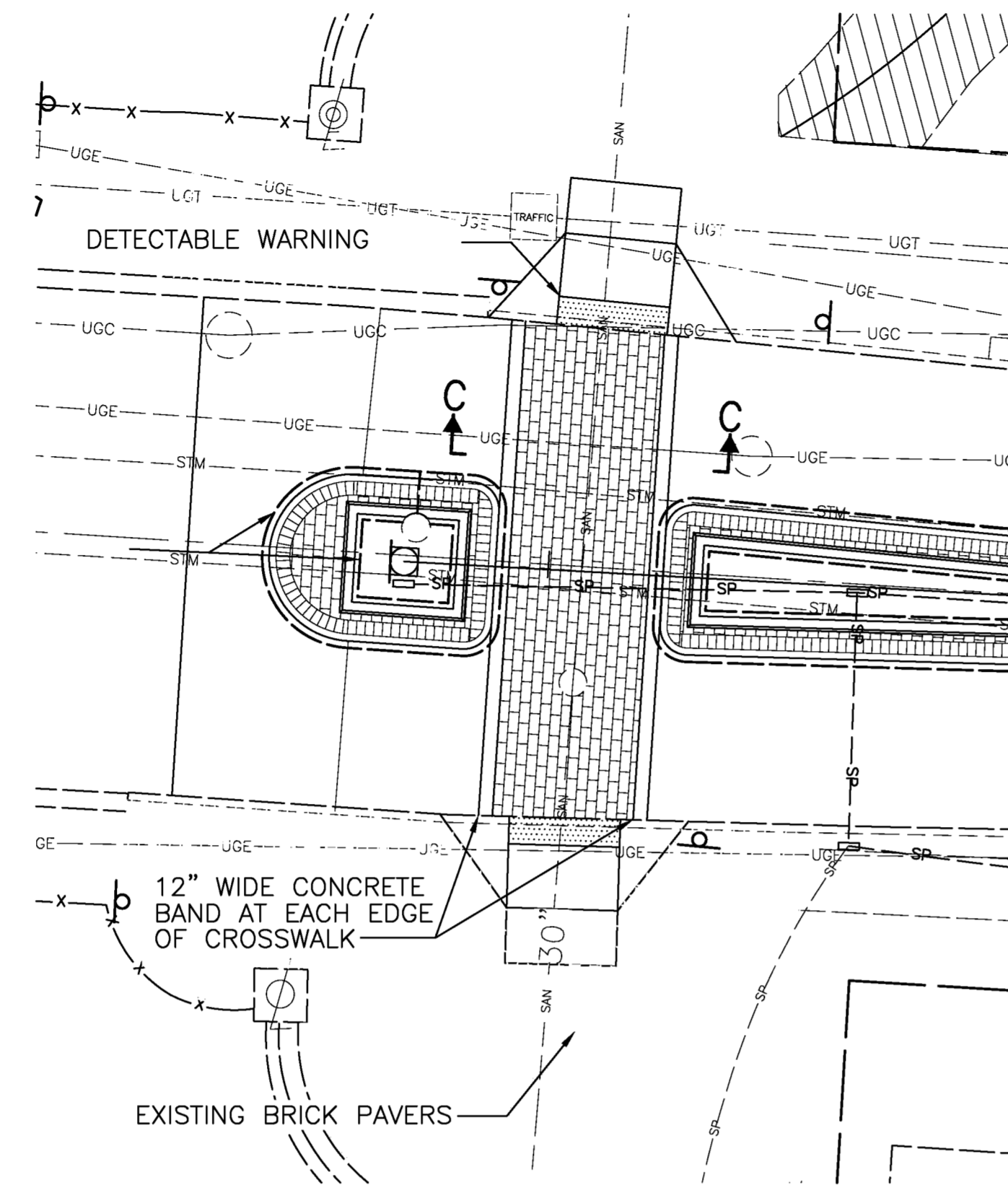
SCALE: 1/4"= 1'-0"



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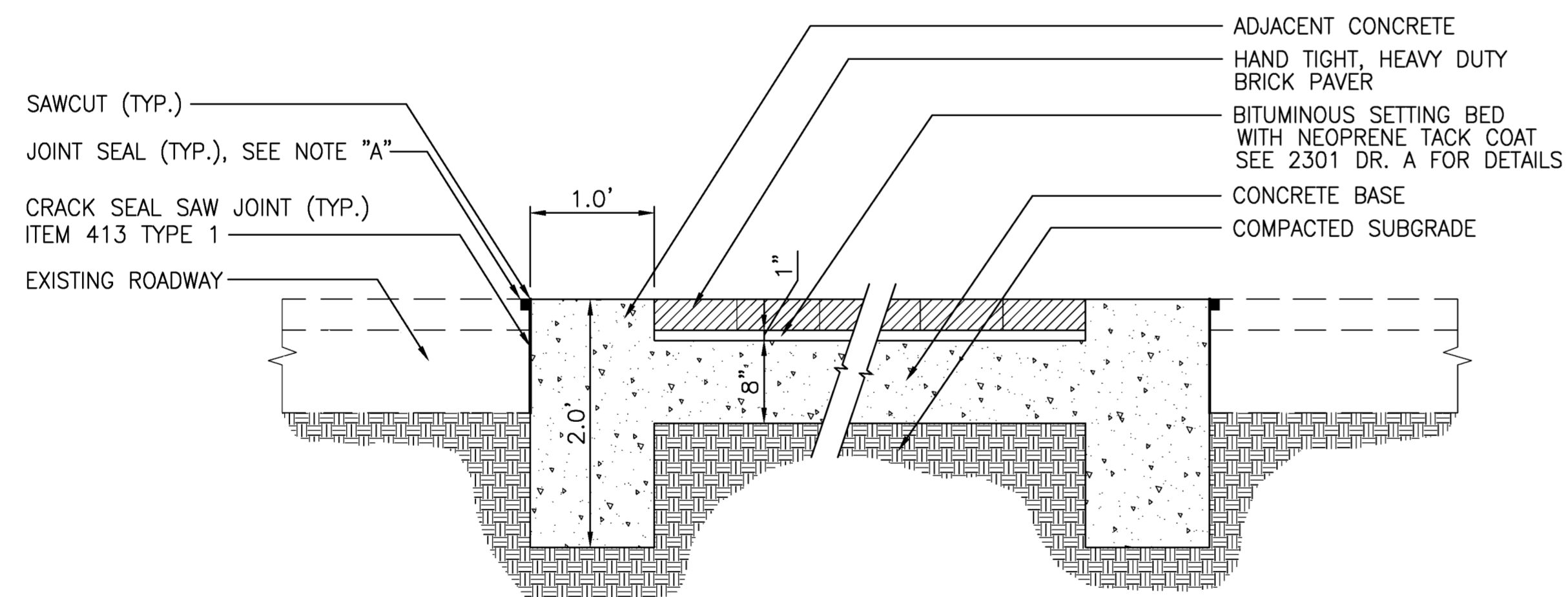
ALT. 2 CAST STONE VENEER DETAILS
THIRD AVE EAST OF OLENTANGY RIVER RD

SSI OVERALL TRAFFIC MANAGEMENT PLAN
CITY OF COLUMBUS



DETAIL 6-BRICK CROSSWALK (ALT. 1)

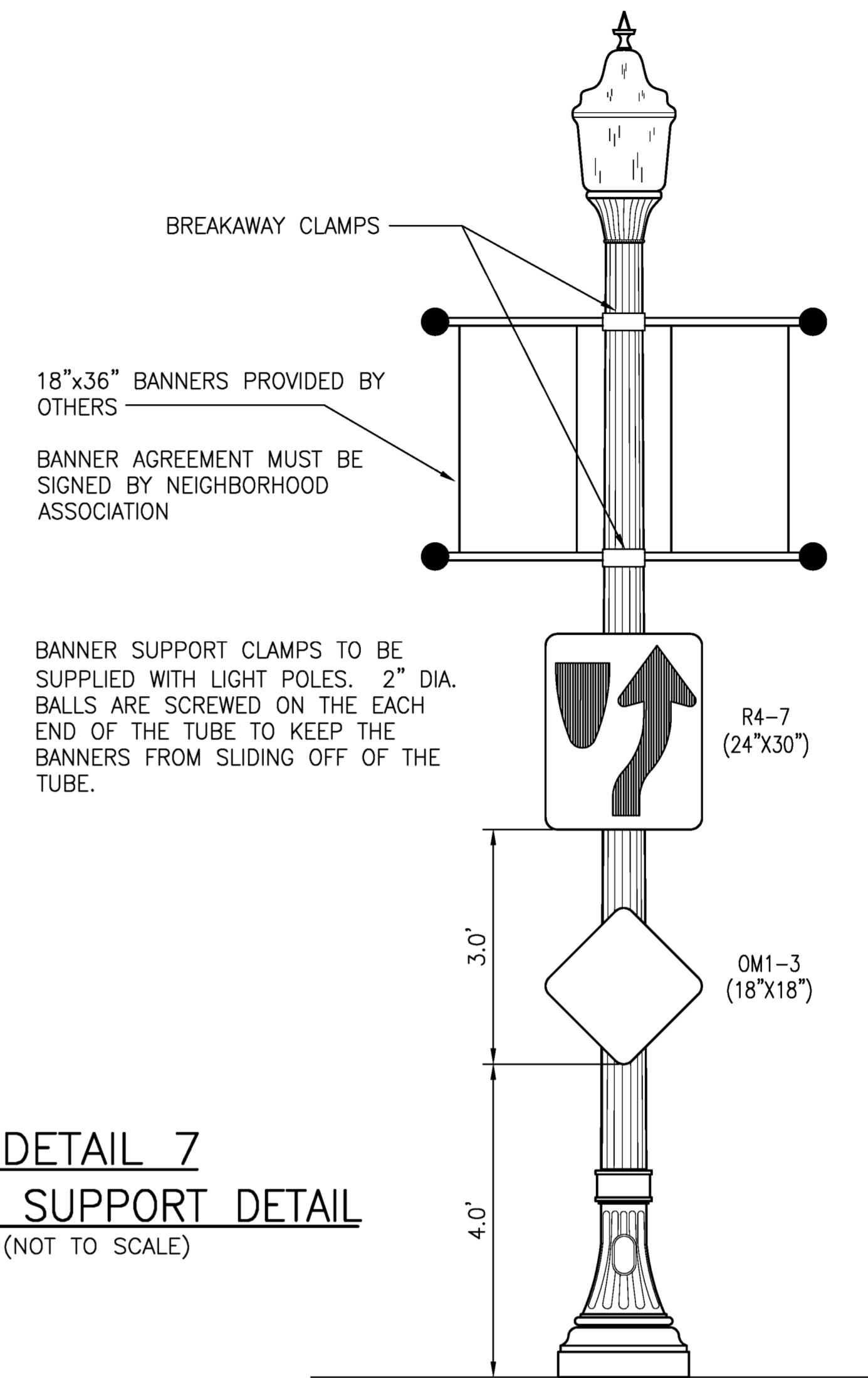
SCALE: 1"=10'



SECTION C-C THROUGH CROSSWALK FOR ALT. 1

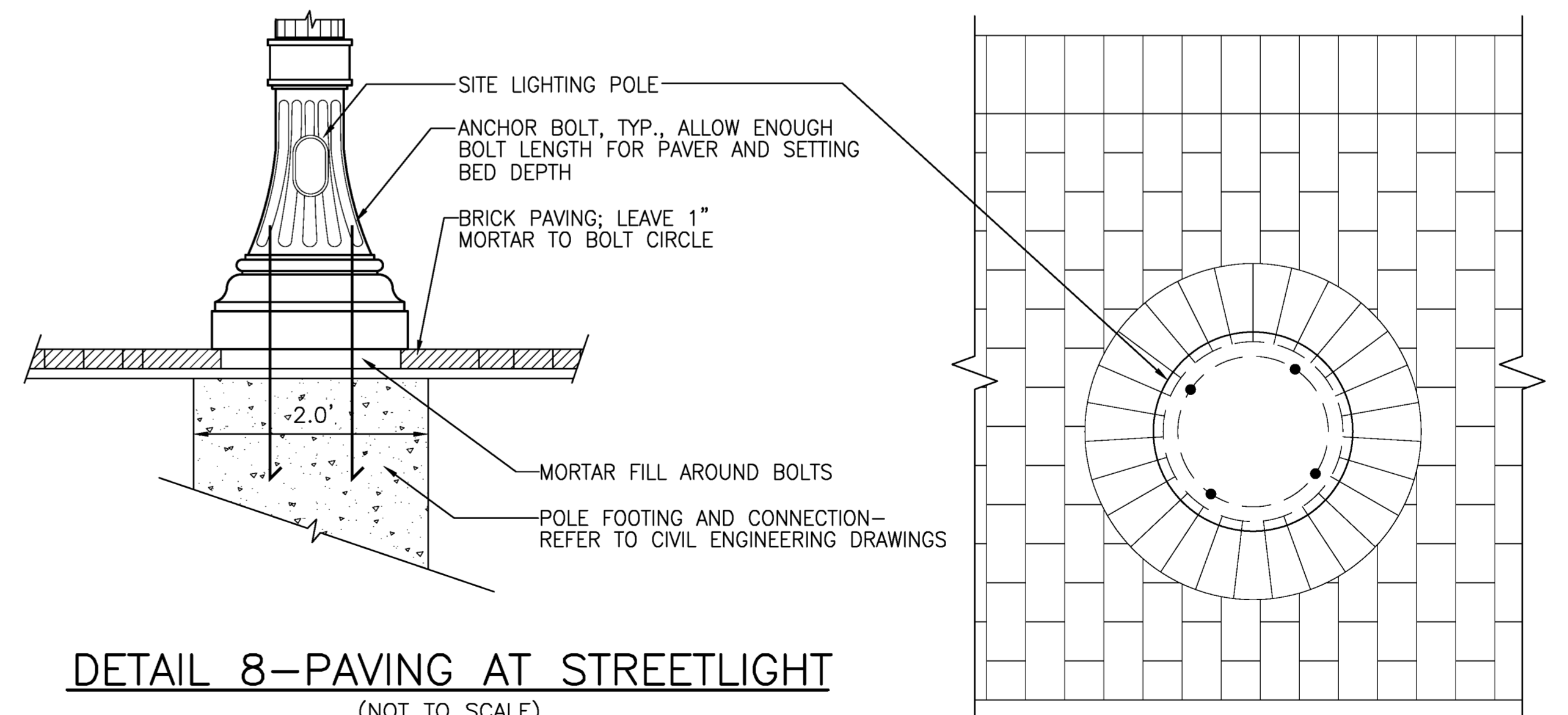
(NOT TO SCALE)

NOTE "A": PREFORMED ELASTOMERIC COMPRESSION JOINT SEAL, 705.11 (1 1/4" WIDE FOR A 1/2" WIDE GROOVE) PLACED IN 1/2" X 2 1/4" GROOVE.



**DETAIL 7
BANNER SUPPORT DETAIL**

(NOT TO SCALE)



DETAIL 8-PAVING AT STREETLIGHT

(NOT TO SCALE)

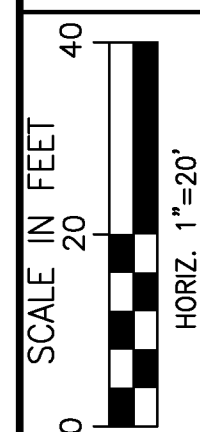
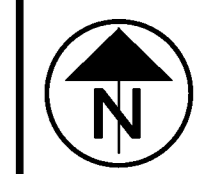
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JNM
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JAR

**BRICK CROSSWALK (ALT. 1) AND STREETLIGHT DETAILS
THIRD AVE EAST OF OLENTANGY RIVER RD.**

**SSI OVERALL TRAFFIC MANAGEMENT PLAN
CITY OF COLUMBUS**

16
26

2304 E

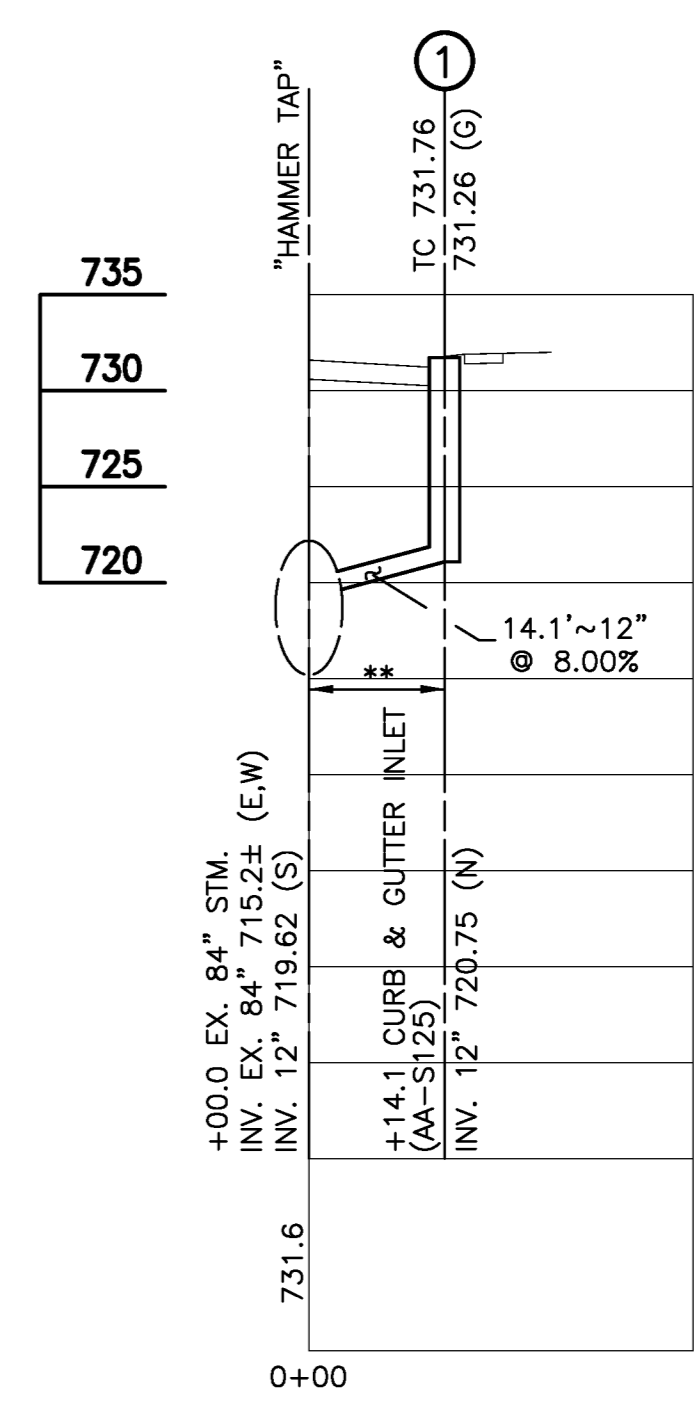


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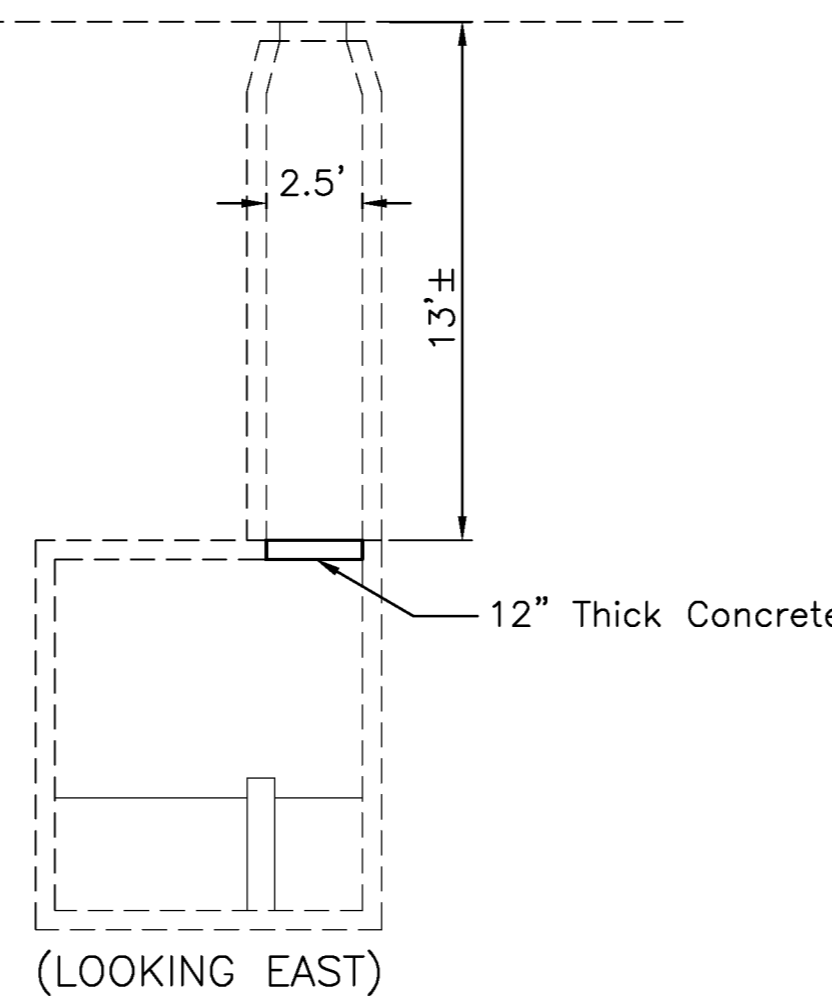
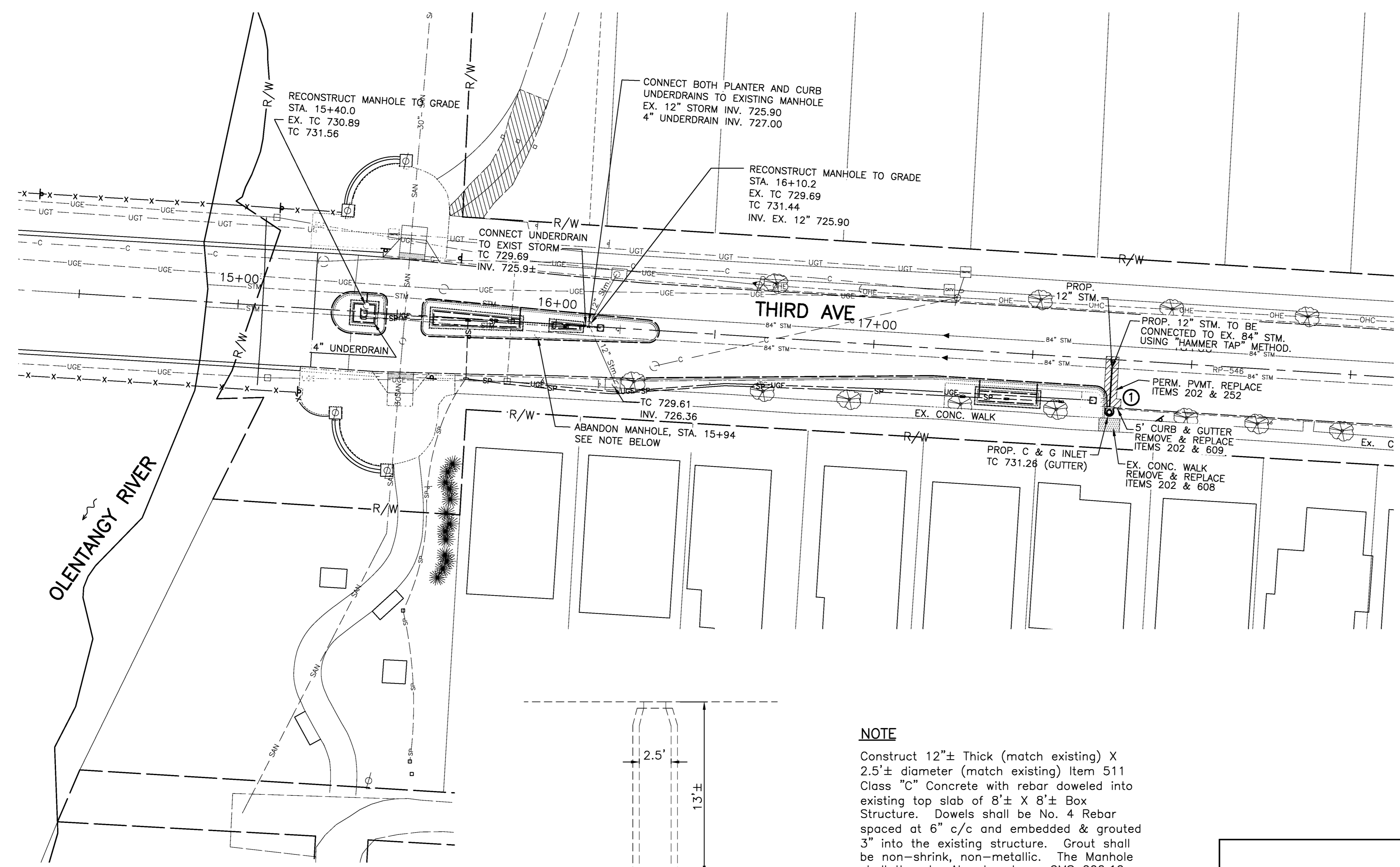
STORM SEWER
THIRD AVE. EAST OF OLENTANGY RIVER RD.

SSI OVERALL TRAFFIC MANAGEMENT PLAN
CITY OF COLUMBUS

- ** STEPS FOR TAPPING THE EXISTING 84" BRICK SEWER:
1. HAMMER TAP INTO THE BRICK SEWER
 2. INSTALL CLAY SADDLE WITH FLANGES PLACED IN THE HOLE
 3. WATER PLUG THE AREA AROUND THE CONNECTION
 4. CONCRETE ENCASE THE FITTING UP TO THE BELL
 5. TRANSITION TO 12" PIPE



** ITEM 912 COMPACTED GRANULAR MATERIAL
SCALE: HORIZ: 1" = 20'
VERT: 1" = 10'



NOTE
Construct 12"± Thick (match existing) X 2.5'± diameter (match existing) Item 511 Class "C" Concrete with rebar doweled into existing top slab of 8'± X 8'± Box Structure. Dowels shall be No. 4 Rebar spaced at 6" c/c and embedded & grouted 3" into the existing structure. Grout shall be non-shrink, non-metallic. The Manhole shall then be Abandoned per CMS 202.12.

Access to the Manhole can be obtained from the outlet approx. 110' to the west under the existing bridge.

All material & workmanship shall conform to their respective Items 202, 509, 511, & 604 and shall be paid for under Item 202 Manhole abandoned, as per plan.

MANHOLE ABANDONED, AS PER PLAN

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	TOTAL
202	PAVEMENT REMOVED AND DISPOSED OF (ASPHALT ROADWAY)	SY	8
202	CURB AND GUTTER REMOVED	LF	5
202	CONCRETE WALK REMOVED	SF	28
202	MANHOLE ABANDONED, AS PER PLAN	EA	1
207	STORM SEWER INLET PROTECTION	EA	3
252	ARTERIAL PERMANENT PAVEMENT REPLACEMENT, TYPE I	CY	3
253	TEMPORARY PAVEMENT	SY	8
604	CURB AND GUTTER INLET, AA-S125	EA	1
604	MANHOLES RECONSTRUCTED TO GRADE	EA	2
608	CONCRETE WALK	SF	28
609	COMBINATION CURB AND GUTTER	LF	5
901	12" PIPE, TYPE I BEDDING W/ ITEM 912 COMPACTED GRANULAR MATERIAL	LF	14

NOTE: SEE SHEET 21/26 FOR LIGHTING WORK TO BE NON-PERFORMED.

Legend

TC	Top of Casting	⊙	Ex. Curb Inlet
CB	Ex. Catch Basin	—	Proposed Storm Sewer
⊙	Ex. Curb Inlet	—UGE—	Ex. Underground Electric
⊙	Ex. Manhole	—DHE—	Ex. Overhead Electric
⊙	Ex. Fire Hydrant	—C—	Ex. Underground Cable
⊙	Ex. Valve	—G—G—	Ex. Gas Line
⊙	Ex. Utility Pole	—W—W—	Ex. Water Line
—stm—	Ex. Storm Sewer	—san—	Ex. Sanitary Sewer
⊙	Ex. Tree	—UGT—	Ex. Underground Traffic
—sp—	Ex. Irrigation Line	—sp—	Prop. Irrigation Line

Drawing: K:\210017\Draw\Third East of Olentangy\210017\Draw\SSM.dwg Saved on: 11-20-08 10:38 Revised by: cdm -L:scale: 1.00 -Plot scale: 1"=100'

Drawing: K:\210117\464\1703\East of Olentangy\316\316TrafficControlNotes.dwg View: W1 Saved on: 05-20-08 08:43 Plotted by: cdm -L Date: 1:00 Plot scale: 1=1 W5/PS

STREET NAME SIGNS

ALL REMOVAL OF STREET NAME SIGNS, REQUIRED UNDER THIS CONTRACT, SHALL BE DONE WITH EXTREME CARE TO AVOID DAMAGE. REMOVAL SHALL BE ACCOMPLISHED BY CUTTING THE STAINLESS STEEL STRAPS, WHICH BAND THE SIGN TO THE STANDARD. THE SIGNS SHALL BE HANDLED IN SUCH A MANNER AS TO AVOID SCRATCHING THE SHEETING OR DAMAGING THE ASSEMBLY. ANY STREET NAME SIGN, WHICH IS DAMAGED, SHALL BE REPLACED BY THE CITY OF COLUMBUS, DIVISION OF TRANSPORTATION; THE INCURRING COST OF REPLACING THE SIGN WILL BE BILLED TO THE CONTRACTOR.

TRAFFIC SIGNS TO BE REPLACED

THE CONTRACTOR, AS PART OF THIS PROJECT, SHALL REPLACE ALL CITY OF COLUMBUS TRAFFIC SIGNS THAT ARE LOCATED INSIDE THE LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC SIGNS AND SIGN SUPPORTS AND DELIVER THEM TO THE TRAFFIC MAINTENANCE SHOP AT 1820 EAST 17TH EAST AVENUE (PHONE #(614) 645-7393). THE CONTRACTOR SHALL PURCHASE NEW SIGNS AND SIGN SUPPORTS TO INSTALL AS INDICATED ON THE PLANS OR IF NOT SHOWN THEN AT THE PREVIOUS LOCATION FOR THE SIGN BEING REPLACED. PERFORMANCE OF AND PAYMENT FOR THIS WORK SHALL BE AS PER ITEM 630 "TRAFFIC SIGNS AND SIGN SUPPORTS" FROM THE C.O.C. CONSTRUCTION AND MATERIAL SPECIFICATIONS.

C.O.T.A. SIGNS AND/OR BUS STOPS

PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL CONTACT JIM HUTCHERSON OF THE CENTRAL OHIO TRANSIT AUTHORITY (C.O.T.A) AT PH#(614) 308-4373, FAX#(614) 275-5933, OR E-MAIL: hutchersonjm@cota.com TO COORDINATE PROPER BUS MOVEMENTS THROUGH OR AROUND THE JOB SITE DURING THE PROJECT. THIS WILL INCLUDE, BUT NOT BE LIMITED TO, THE TEMPORARY RELOCATION OR REMOVAL OF C.O.T.A. SIGNS AND/OR BUS STOP LOCATIONS.

ITEM 630 REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL AS PER PLAN

ALL SIGNS REMOVED SHALL BE RETURNED TO THE CITY OF COLUMBUS TRANSPORTATION DIVISION MAINTENANCE SHOP, 1820 E. 17TH ST., COLUMBUS, OH, 43219.

ITEM 630 SIGNS, FLAT SHEET TYPE "H", AS PER PLAN

IN ADDITION TO ALL SIGNS CONFORMING TO ITEM 630, THE BACK OF THE SIGNS SHALL BE PAINTED WITH FLAT BLACK THERMOSET POLYESTER POWDER COAT FINISH.

ITEM 646 24" CROSSWALK LINE, WHITE, AS PER PLAN:

IN ADDITION TO ITEM 646 CROSSWALK LINE, 24" WHITE CROSSWALK LONGITUDINAL LINES SHALL BE INSTALLED WITH NON SKID PREFORMED PLASTIC MATERIAL.

ITEM 630 GROUND MOUNTED SUPPORT, NO. 3 POST, AS PER PLAN:

IN ADDITION TO SPECIFICATION 630.06 AND 730.016, GROUND MOUNTED SUPPORTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS: SUPPORTS SHALL BE SQUARE WITH DIE-CUT KNOCKOUTS FOR HOLES. HOLES SHALL NOT BE VISIBLE UNLESS THE KNOCKOUTS ARE REMOVED TO PROVIDE FOR THE MOUNTING OF A SIGN. THE PAINT SHALL BE FLAT BLACK THERMOSET POLYESTER POWDER COAT FINISH MEETING THE COLOR REQUIREMENTS SPECIFIED IN THE MATERIAL INFORMATION SUBMITTAL NOTE.

SQUARE POSTS SHALL BE ERECTED BY THE DRIVEN INSTALLATION METHOD. POST HOLES SHALL BE DRILLED OUT. POST SHALL BE DRIVEN IN AND EPOXIED INTO PLACE.

CALCULATED
JMM
CHECKED
HLM

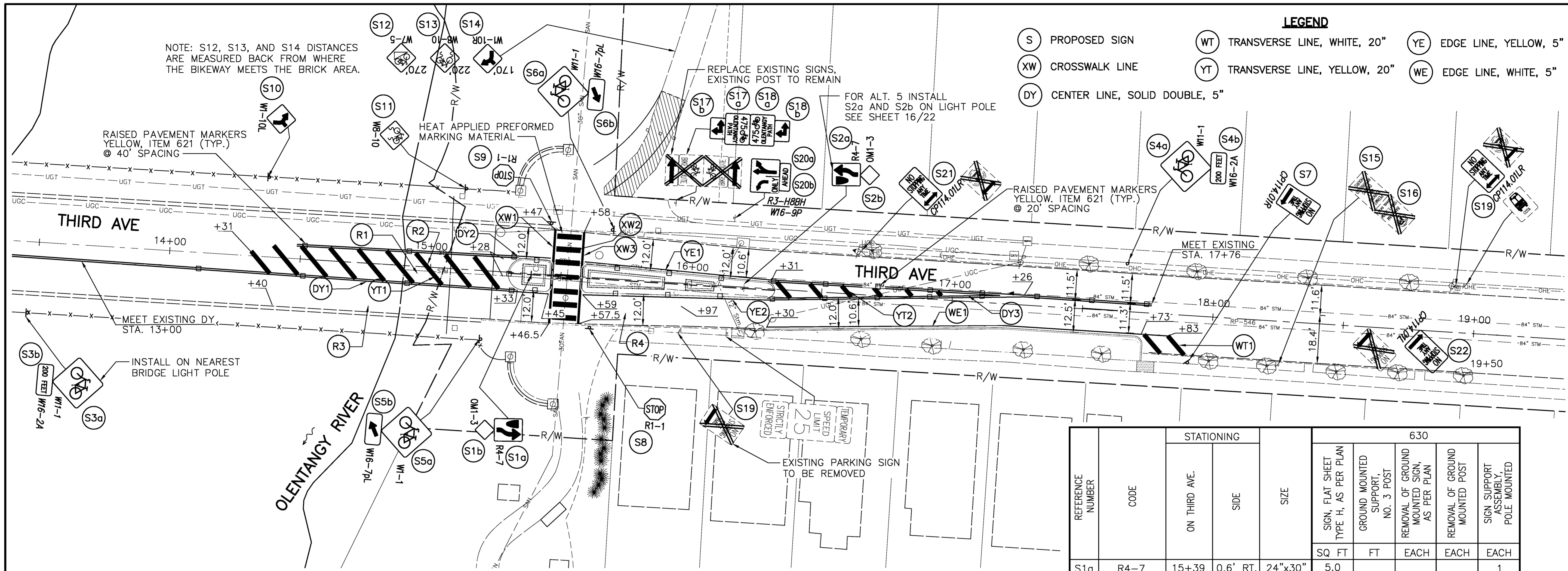
TRAFFIC CONTROL NOTES
THIRD AVE. EAST OF OLENTANGY RIVER RD.

SSI OVERALL TRAFFIC MANAGEMENT PLAN
CITY OF COLUMBUS

18
26

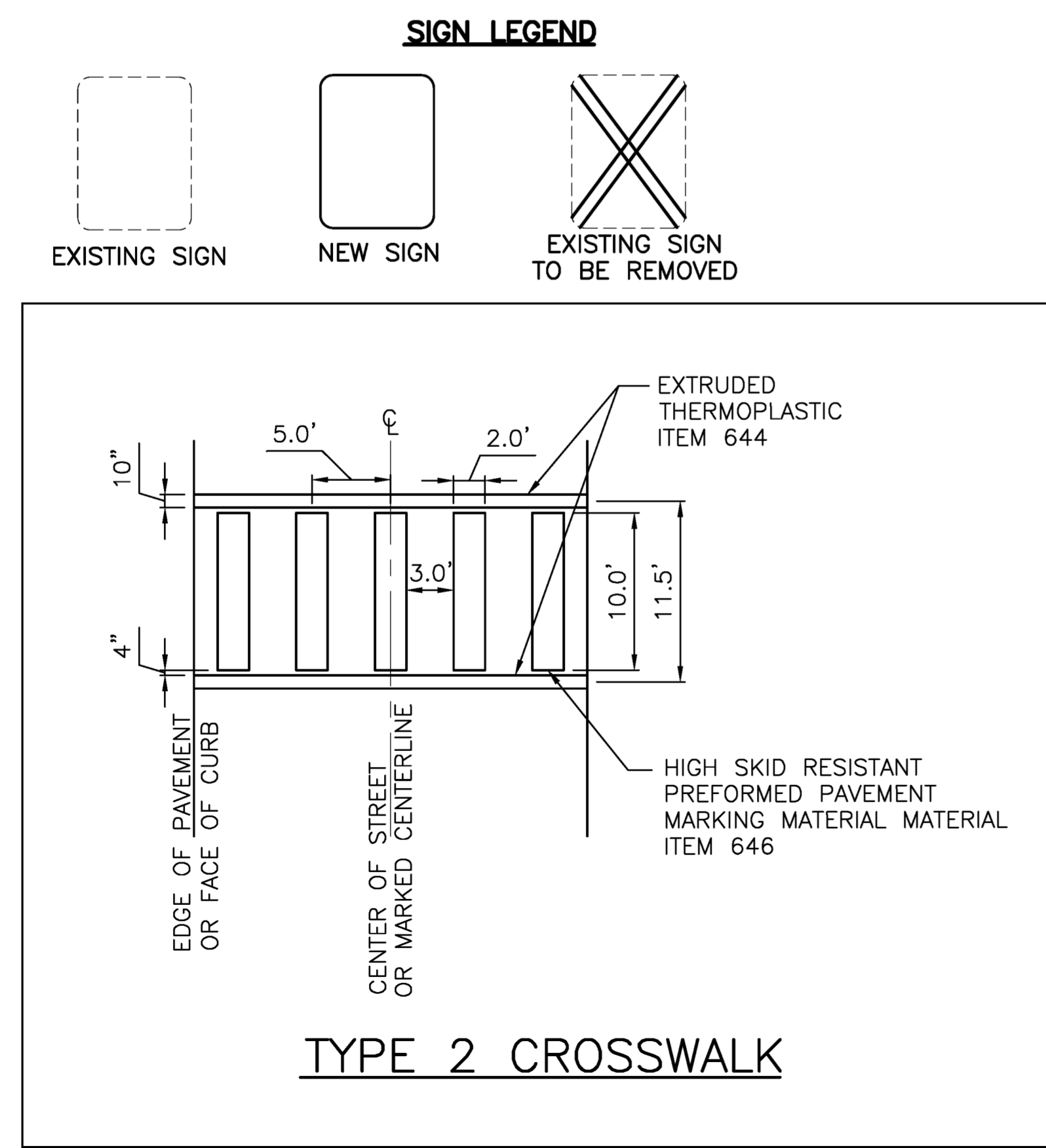
2304 E

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LEGEND

(S) PROPOSED SIGN	(WT) TRANSVERSE LINE, WHITE, 20"	(YE) EDGE LINE, YELLOW, 5"
(XW) CROSSWALK LINE	(YT) TRANSVERSE LINE, YELLOW, 20"	(WE) EDGE LINE, WHITE, 5"
(DY) CENTER LINE, SOLID DOUBLE, 5"		



REFERENCE NUMBER	STATIONING		644							646
	ON THIRD AVE.	SIDE	REMOVAL - PAVEMENT MARKING	EDGE LINE, 5" YELLOW	EDGE LINE, 5" WHITE	CENTER LINE, 5" DOUBLE YELLOW	TRANSVERSE LINE, 20" YELLOW	TRANSVERSE LINE, 20" WHITE	CROSSWALK LINE, 10" WHITE	CROSSWALK LINE, 24" WHITE AS PER PLAN
			FT	MILE	MILE	MILE	FT	FT	FT	FT
R1	14+68 TO 15+35	RT.	67							
R2	14+94 TO 15+30	LT.&RT.	36							
R3	14+40 TO 15+97	RT.	157							
R4	15+00 TO 15+97	RT.	97							
YT1	14+31 TO 15+30	LT.&RT.					135			
YT2	16+31 TO 17+00	LT.&RT.					32			
DY1	13+00 TO 15+45	RT.				0.05				
DY2	14+50 TO 15+45	LT.				0.02				
DY3	16+23 TO 17+53	LT.&RT.				0.06				
XW1	15+44 TO 15+45	LT.&RT.							36	
XW2	15+59 TO 15+60	LT.&RT.							36	
XW3	15+45 TO 15+59	LT.&RT.								65
YE1	15+61 TO 16+31	RT.		.013						
YE2	15+61 TO 16+31	LT.		.013						
WE1	16+30 TO 17+83	RT.			.029					
WT1	16+73 TO 17+83	RT.						20		
TOTAL			357	.026	.029	0.13	167	20	72	65

REFERENCE NUMBER	CODE	STATIONING		SIZE	630				
		ON THIRD AVE.	SIDE		SIGN, FLAT SHEET TYPE H, AS PER PLAN	GROUND MOUNTED SUPPORT, NO. 3 POST	REMOVAL OF GROUND MOUNTED SIGN, AS PER PLAN	REMOVAL OF GROUND MOUNTED POST	SIGN SUPPORT ASSEMBLY, POLE MOUNTED
					SQ FT	FT	EACH	EACH	EACH
S1a	R4-7	15+39	0.6' RT.	24"x30"	5.0				1
S1b	OM1-3	15+39	0.6' RT.	18"x18"	2.25				1
S2a	R4-7	16+20	0.6' RT.	24"x30"	5.0	15.5			
S2b	OM1-3	16+20	0.6' RT.	18"x18"	2.25				
S3a	W11-1	13+47	27' RT.	30"x30"	6.25				1
S3b	W16-2a	13+47	27' RT.	24"x12"	2.0				1
S4a	W11-1	17+56	25' LT.	30"x30"	6.25	15.5			
S4b	W16-2a	17+56	25' LT.	24"x12"	2.0				
S5a	W11-1	15+21	27' RT.	30"x30"	6.25				1
S5b	W16-7pL	15+21	27' RT.	24"x12"	2.0				1
S6a	W11-1	16+68	18' LT.	30"x30"	6.25	15.5			
S6b	W16-7pL	16+68	18' LT.	24"x12"	2.0				
S7	CP114.01R	17+92	18' RT.	12"x18"	1.5	15.5		1	
S8	R1-1	15+62	20' RT.	18"x18"	2.25	15.5			
S9	R1-1	15+45	20' LT.	18"x18"	2.25	15.5			
S10	W1-10L	14+36	31' LT.	18"x18"	2.25				1
S11	W8-10	15+12	31' LT.	18"x18"	2.25				1
S12	W7-5	---	---	18"x18"	2.25	12.0			
S13	W1-10R	---	---	18"x18"	2.25	12.0			
S14	W8-10	---	---	18"x18"	2.25	12.0			
S15	SPEC.	18+26	17' RT.	12"x18"			1	1	
S16	SPEC.	18+26	17' RT.	12"x18"			1		
S17a	CM-N-7.01	15+92	30' LT.	24"x18"	5.0		1		
S17b	M7-6	15+92	30' LT.	12"x9"	1.5		1		
S18a	CM-N-7.01	15+92	30' LT.	24"x18"	5.0		1		
S18b	M7-6	15+92	30' LT.	12"x9"	1.5		1		
S19	CP114.01L	18+95	18' LT.	12"x18"	1.5		1		
S20a	R3-H8bh	16+14	26' LT.	36"x30"	7.5		1		
S20b	W16-9p	16+14	26' LT.	24"x12"	2.0		1		
S21	CP114.01LR	16+63	16' LT.	12"x18"	1.5		1		
S22	CP114.01L	19+50	16' RT.	12"x18"	1.5		1		
TOTAL					88.75	129	11	2	8

* ATTACH TO NEAREST LIGHT POST 7' ABOVE SIDEWALK

SSI OVERALL TRAFFIC MANAGEMENT PLAN
TRAFFIC CONTROL
CITY OF COLUMBUS
THIRD AVE. EAST OF OLENTANGY RIVER RD.

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DIVISION OF ELECTRICITY

THE DIVISION OF POWER AND WATER (POWER), CITY OF COLUMBUS, OHIO HAS OVERHEAD AND UNDERGROUND STREET LIGHTING EXISTING AT THIS WORK SITE. THE CONTRACTOR IS HEREBY REQUIRED TO CONTACT OUPS 1-800-362-2764 FORTY EIGHT HOURS PRIOR TO CONDUCTING ANY ACTIVITY WITHIN THE CONSTRUCTION AREA. THE DOPWP DISPATCH OFFICE NUMBER IS (614) 645-7627 (VOICE). PLEASE IDENTIFY THE LOCATION OF DOPW POLES AS PER ATTACHED MAPS AND THEIR RELATION TO PROJECT CONSTRUCTION.

ANY REQUIRED RELOCATION, SUPPORT, PROTECTION, OR RELATED ACTIVITY CONCERNED WITH THE CITY'S ELECTRICAL FACILITIES IS TO BE PERFORMED SOLELY BY THE CONTRACTOR UNDER THE DIRECTION OF DIVISION OF POWER AND WATER (DOPW) PERSONNEL AND AT THE EXPENSE OF THE PROJECT. DOPW SHALL MAKE ALL FINAL CONNECTIONS TO DOPW'S EXISTING ELECTRICAL SYSTEM AT THE EXPENSE OF THE PROJECT. THE CONTRACTOR SHALL USE MATERIAL AND MAKE REPAIRS TO A CITY OF COLUMBUS STREET LIGHTING SYSTEM BY FOLLOWING THE DIVISION OF POWER AND WATER'S "MATERIAL AND INSTALLATION SPECIFICATIONS" (MIS) AND THE CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (CMS). ANY NEW OR RE-INSTALLED UNDERGROUND STREETLIGHT SYSTEM SHALL REQUIRE TESTING AS REFERRED TO IN SECTION 1000.18 OF THE CMS MANUAL.

THE CONTRACTOR SHALL CONFORM TO THE DIVISION OF POWER AND WATER'S POLICIES FOR CONDUCTOR SAFETY AND HOLD CARD SYSTEM (MIS-95) & (GUIDE LINES MIS 177), COPIES OF WHICH ARE AVAILABLE FROM THE DIVISION OF POWER AND WATER. IF YOU HAVE ANY QUESTIONS, CALL CHRIS VOGAL (614) 645-6963 OR MIHAI ORBOCEA (614) 645-6851 FOR LIGHTING. IF ANY ELECTRIC FACILITY BELONGING TO THE DIVISION OF POWER AND WATER IS DAMAGED IN ANY MANNER BY THE CONTRACTOR, IT'S AGENTS, SERVANTS, OR EMPLOYEES, AND REQUIRES EMERGENCY REPAIRS, THE DIVISION OF POWER AND WATER SHALL MAKE ALL NECESSARY REPAIRS, AND THE EXPENSE OF SUCH REPAIRS AND OTHER RELATED COSTS SHALL BE PAID BY THE CONTRACTOR TO THE DIVISION OF POWER AND WATER, CITY OF COLUMBUS, OHIO.

LIGHTING NOTES

THE STREET LIGHTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT CITY OF COLUMBUS "CONSTRUCTION AND MATERIAL SPECIFICATIONS", (LATEST EDITION, SECTION 1000, TITLED "STREET LIGHTING"), INCLUDING ALL SUPPLEMENTS THERETO, IN FORCE ON THE DATE OF THE CONTRACT, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS, EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING OR BY THE SPECIFICATIONS DETAILS SET FORTH HEREIN.

THE PLAN DETAILS SHALL BE CONSIDERED SUPPLEMENTAL TO MIS SPECIFICATIONS.

WHERE EXCAVATIONS OCCUR ALONGSIDE OF CURBS OR SIDEWALKS, THE CONTRACTOR SHALL SHORE, BRACE OR SUPPORT PIECES IN PLACE SO THAT THEY WILL NOT BECOME DISLODGED OR DAMAGED. ANY DAMAGED CURB OR SIDEWALK SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.

PAVEMENTS DAMAGED DUE TO CONTRACTORS NEGLIGENCE SHALL BE REPLACED AT CONTRACTORS EXPENSE. REPAIRS SHALL BE MADE IN ACCORDANCE TO CITY ENGINEER DRAWING #1441 DR. A.

NO SPLICES SHALL BE MADE IN CIRCUIT CABLES, EXCEPT AT NOTED LOCATIONS. SPLICES SHALL BE MADE IN PULL BOX ENCLOSURES AND POLES ONLY. THE FINAL SPLICE TO DOE CIRCUIT #10 SHALL BE MADE BY D.O.E. CREW.

ALL CONDUIT IN OPEN AREAS SHALL RECEIVE CONCRETE ENCASEMENT IN ACCORDANCE WITH MIS #15.

CONDUIT INSTALLED UNDER DRIVEWAYS SHALL BE PUSHED FROM A MINIMUM DISTANCE OF ONE (1') FOOT BEYOND PAVEMENT EDGES.

CONDUIT IN OPEN AREAS SHALL BE CONSTRUCTED PER MIS #15 (2" CONDUIT UNDER BRICK AREAS) AND SHALL BE PAID PER MIS #89.

PULL BOXES SHALL BE LOCATED APPROXIMATELY WHERE SHOWN ON PLANS WITH EXACT LOCATIONS TO BE DETERMINED IN THE FIELD AFTER CONSIDERATION IS GIVEN TO THE LOCATION OF UTILITIES, PAVEMENTS AND GRADES.

CONTRACTOR MAY REMOVE SIDEWALK FROM ONE SIDE OF THE STREET FOR THE PUSH PITS WHERE CONDUIT CROSSES STREET. COST FOR SIDEWALK REMOVAL AND REPLACEMENT SHALL BE INCLUDED IN THE VARIOUS UNIT BID PRICE.

ALL TRENCHES WITHIN THE ROAD RIGHT-OF-WAY SHALL BE BACKFILLED OR SECURELY PLATED DURING NON-WORKING HOURS.

AS BUILT RECORD - THE CONTRACTOR SHALL MAINTAIN A SET OF PROJECT DOCUMENTS. THESE DOCUMENTS SHALL INCLUDE REVIEWED SHOP DRAWINGS, CHANGE ORDERS, EQUIPMENT OPERATING INSTRUCTIONS, FIELD TEST RECORDS, AND AS BUILT DRAWINGS. THE AS BUILT DRAWING SHALL BE MARKED LEGIBLY IN RED, THE ACTUAL LOCATION OF EQUIPMENT AND CONDUITS AS CONSTRUCTED. ALL EQUIPMENT AND UNDERGROUND CONDUITS INSTALLED SHALL HAVE LOCATIONS MARKED IN DISTANCES OFF A LANDMARK AT LEAST EVERY 25 FEET AND AS NECESSARY AT BENDS FOR LOCATION AT A LATER DATE.

SHOP DRAWINGS - THE CONTRACTOR SHALL SUMMIT SHOP DRAWINGS FOR EACH MATERIAL ITEM TO BE INCORPORATED INTO THE PROJECT.

SIGN LUMINAIRE SHALL BE INSTALLED 1' IN FRONT OF THE SIGNS. THE SIGN LUMINAIRES ARE DESIGNED TO ILLUMINATE A SIGN 4' WIDE, 2' HIGH, MOUNTED 6" ABOVE GRADE. THE CONTRACTOR SHALL VERIFY THE SIGN SIZE PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OFF ANY DIMENSIONAL CHANGES OF THE SIGN SIZE. SIGN LUMINAIRE SHALL BE SPACED IN 1/3 DIMENSIONAL INCREMENTS ACROSS THE SIGNS WIDTH (APPROX. 1'4").

LEAVE 5' OF SLACK CABLE IN EACH PULL BOX.

THE 3/4" CONDUIT SHALL MEET ALL THE REQUIREMENTS OF MIS #89 EXCEPT SIZE.

THIS CONDUIT INVOLVES WORK ON AND NEAR DIVISION OF ELECTRICITY'S ELECTRICAL FACILITIES. THE DIVISION OF ELECTRICITY HAS A CONDUCTOR SAFETY POLICY WHICH SHALL BE FOLLOWED BY ALL PERSONS WORKING ON OR NEAR THESE FACILITIES. NO WORK WILL BE PERMITTED TO START UNTIL EACH PERSON WORKING ON OR AROUND THE DIVISION OF ELECTRICITY'S CONDUCTORS HAS READ AND UNDERSTANDS THE POLICY. COPIES OF THE CONDUCTOR SAFETY POLICY CAN BE OBTAINED THROUGHOUT THE DIVISION OF ELECTRICITY, 3500 INDIANOLA AVE.

ALL ITEMS OF WORK CALLED FOR ON THE PLANS, FOR WHICH NO SPECIFIC METHOD OF PAYMENT IS PROVIDED, SHALL BE PERFORMED BY THE CONTRACTOR AND THE COST OF THESE SHALL BE INCLUDED IN THE UNIT PRICES BID FOR THE VARIOUS RELATED ITEMS. THIS INCLUDES, BUT NOT LIMITED TO SUCH INCIDENTAL ITEMS, AS RELOCATION OF MAIL BOXES, SAW CUTTING, AND REMOVAL AND/OR RELOCATION OF SIGNS, RAILROAD TIES, SPRINKLERS, RELOCATING ROOF OR SUMP PUMP DRAINS AROUND LIGHT POLE FOUNDATIONS, HAND DIGGING AROUND UNDERGROUND UTILITIES OR OTHER MISCELLANEOUS ITEMS.

ALL CONDUIT SHALL BE INSTALLED IN CONTINUOUS LENGTHS. TERMINATION'S OF CONDUIT SHALL OCCUR ONLY WITHIN PULL BOXES AND WITHIN THE HAND HOLE OF LIGHT POLES. IF THE CONDUIT CONSIST OF CABLE-IN-DUCT, IT SHALL BE INSTALLED INTO THE FOUNDATION ELLS WITHOUT KINKING OR SPLICING.

NO EXCAVATIONS SHALL BE MADE WITHIN FIVE (5') FEET OF ANY POLE THAT SUPPORTS TRAFFIC SIGNAL DISPLAYS OR SIGNS BY MAST ARM OR SIGNAL SPAN. EXCAVATION WITH EIGHT (8') FEET BUT MORE THAN FIVE (5') FEET SHALL REQUIRE ADDITIONAL SUPPORT (DOWN GUY, HEAD GUY, BASE GUY, ETC.). THE CONTRACTOR SHALL CONTACT THE DIVISION SYSTEM ENGINEER (645-7790) AT LEAST TWO WORKING DAYS PRIOR TO SUCH EXCAVATIONS, SO THAT THE DIVISION MAY INSTALL SUCH SUPPORTS AT THE OWNER/CONTRACTING AGENCY'S EXPENSE.

MAINTAIN A MINIMUM OF 3' HORIZONTAL AND 1' VERTICAL CLEARANCE FROM ALL WATER AND SEWER LINES, UNLESS APPROVED BY ENGINEER.

CONDUCTORS ON THE PRIMARY SIDE OF THE TRANSFORMER SHALL BE #4 AWG FROM THE POWER SOURCE TO THE TRANSFORMER. FROM THE TRANSFORMER (SECONDARY) TO THE LANDSCAPE LUMINAIRES CONDUCTORS SHALL BE #10 AWG, COPPER, SINGLE CONDUCTOR, TYPE USE OR RHW OR RHH. #10 CONDUCTORS SHALL MEET THE REQUIREMENTS OF MIS SPECIFICATION #14 EXCEPT FOR SIZE AND INSULATION TYPE. CONTRACTOR SHALL ASCERTAIN THE LINE VOLTAGE AT THE POWER PANEL OF THE MELP CIRCUIT AND CONNECT TO THE TRANSFORMER TAP LEADS WHICH OPTIMIZE THE OUTPUT VOLTAGE WITH LOAD CONNECTED TO THE DESIRED 120 VOLTS.

FUSE DISCONNECT ENCLOSURE AND ELECTRICAL APPARATUS. THE CONTRACTOR SHALL PROVIDE AND INSTALL THE ENCLOSURE WHICH SHALL CONTAIN THE 30 AMP FUSE SWITCH, AND TRANSFORMER. THE TRANSFORMER SHALL BE INSTALLED IN THE FUTURE AND THUS NOT INCLUDED IN THIS CONTRACT. HOWEVER THE ENCLOSURE SHALL BE PROVIDED WITH PANEL SIZED AND READY TO ACCEPT THE FUTURE TRANSFORMER. ALL FUSE BLOCKS SHALL BE INSTALLED WITHOUT FUSES.

THE ENCLOSURE FOR THE POWER PANEL SHALL BE NEMA 4X, STAINLESS STEEL WITH FUSED DISCONNECT 60 AMP RATING, 3 POLE. THE ENCLOSURE SHALL BE APPROXIMATELY 24"x21"x9" AND PROVIDED WITH GROUNDING LUG, DOOR AND KEY LOCK. ENCLOSURE TO BE SIMILAR TO WEIGMANN AND COMPANY INC. MODEL SSN4X-24228.

INCLUDE THE COST OF COMPLETE INSTALLATION IN THE PRICE BID FOR EACH LUMINAIRE.

THE FUSED DISCONNECT SWITCH WITH 480 TO 120/240 VOLT TRANSFORMER SHALL BE PAID AS A COMPLETE UNIT, INSTALLED IN PLACE, EACH. INCLUDE IN COST THE SWITCHES, FUSES, TRANSFORMER, POLES, CONDUITS TO THE PULL BOX, WIRING, MOUNTING ANGLES, ENCLOSURE, COORDINATION WITH MELP IN MAKING THE CONNECTION TO THE EXISTING STREET LIGHTING CIRCUIT, AND ALL OTHER ELECTRICAL EQUIPMENT REQUIRED TO PROVIDE A COMPLETE AND OPERABLE UNIT AS INTENDED BY THE PROJECT PLANS.

ALL WORK SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE LATEST EDITION OF THE "NATIONAL ELECTRICAL CODE".

**TRENCHLESS INSTALLATION
3" RIGID NON-METALLIC CONDUIT, DRILLED UNDER PAVEMENT**

MATERIAL

A. CONDUIT RIGID - IS TITLE "RIGID NON-METALLIC CONTINUOUS LENGTH HDPE CONDUIT, CONDUIT SHALL BE MANUFACTURED FROM HIGH DENSITY POLYETHYLENE RESIN (HDPE), SCHEDULE 40, CONFORMING TO THE REQUIREMENTS OF UL 651 PER ASTM D 2447. THE CONDUIT SHALL COMPLY WITH NEMA TC 7-2000 FOR TYPE EPEC-40-HDPE. THE CONDUIT SHALL BE PERMA-GUARD US, HDPE CONDUIT OR APPROVED EQUAL.
B. CONDUIT 1 1/2" CABLE-IN-DUCT-AS SPECIFIED IN MIS-124.

INSTALLATION

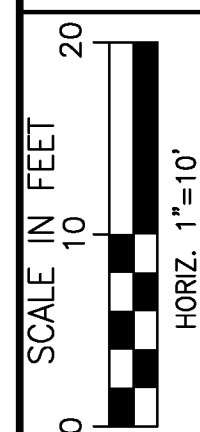
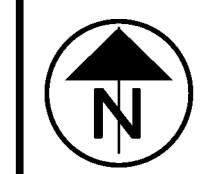
A. THE CONTRACTOR SHALL PLACE THE DRILL WITH THE LEAST AMOUNT OF DISTURBANCE TO THE EXISTING PAVEMENT, BERM PAVEMENT OR SHOULDERS OF THE ROADWAY.
B. THE CONTRACTOR SHALL EXERCISE CARE NOT TO DAMAGE THE RIGID CONDUIT DURING INSTALLATION. DAMAGED SECTIONS OF CONDUIT ARE NOT ACCEPTABLE AND SHALL HAVE NEW CONDUIT RE-DRILLED. THE CONDUIT SHALL BE A MINIMUM 30" DEEP AND EXTENDED AT LEAST 3' BEYOND THE PAVEMENT BERM.
C. THE 1 1/2" CABLE-IN-DUCT SHALL BE CAREFULLY INSERTED THROUGH THE FULL LENGTH OF THE 3" CONDUIT AND BE CONTINUOUS THROUGHOUT FROM PULL BOX TO PULL BOX, OR FROM POLE TO PULL BOX.
D. THE COST FOR DRILLING CONDUIT UNDER PAVEMENT SHALL BE QUOTED IN A PER FOOT BASIS, COMPLETE IN PLACE. INCLUDE IN THE UNIT PRICE COST FOR BOTH 3" RIGID NON-METALLIC CONDUIT AND 1 1/2" CABLE-IN-DUCT, EXCAVATION, GRANULAR AND OTHER BACKFILL MATERIALS, COMPACTION, DISPOSAL OF SURPLUS MATERIALS AND RESTORATION OF DISTURBED FACILITIES AND SURFACES TO EQUAL OR BETTER CONDITION THAT EXISTED PRIOR TO THE WORK.
E. CONTRACTOR MAY REMOVE SECTION OF SIDEWALK FROM ONE SIDE OF THE STREET FOR DIRECTIONAL DRILLING WHERE CONDUIT CROSSES THE STREET. THE SIDEWALK SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH ITEM 608 OF THE CITY OF COLUMBUS, CONSTRUCTION AND MATERIAL SPECIFICATIONS.
F. THE 3" RIGID NON-METALLIC CONDUIT WITH 1 1/2" CABLE-IN-DUCT INSERT SHALL BE INSTALLED AS SHOWN ON THE DETAIL DRAWINGS 01S0081 AND 01S0085.

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LIGHTING NOTES
THIRD AVE. EAST OF OLENTANGY RIVER RD.

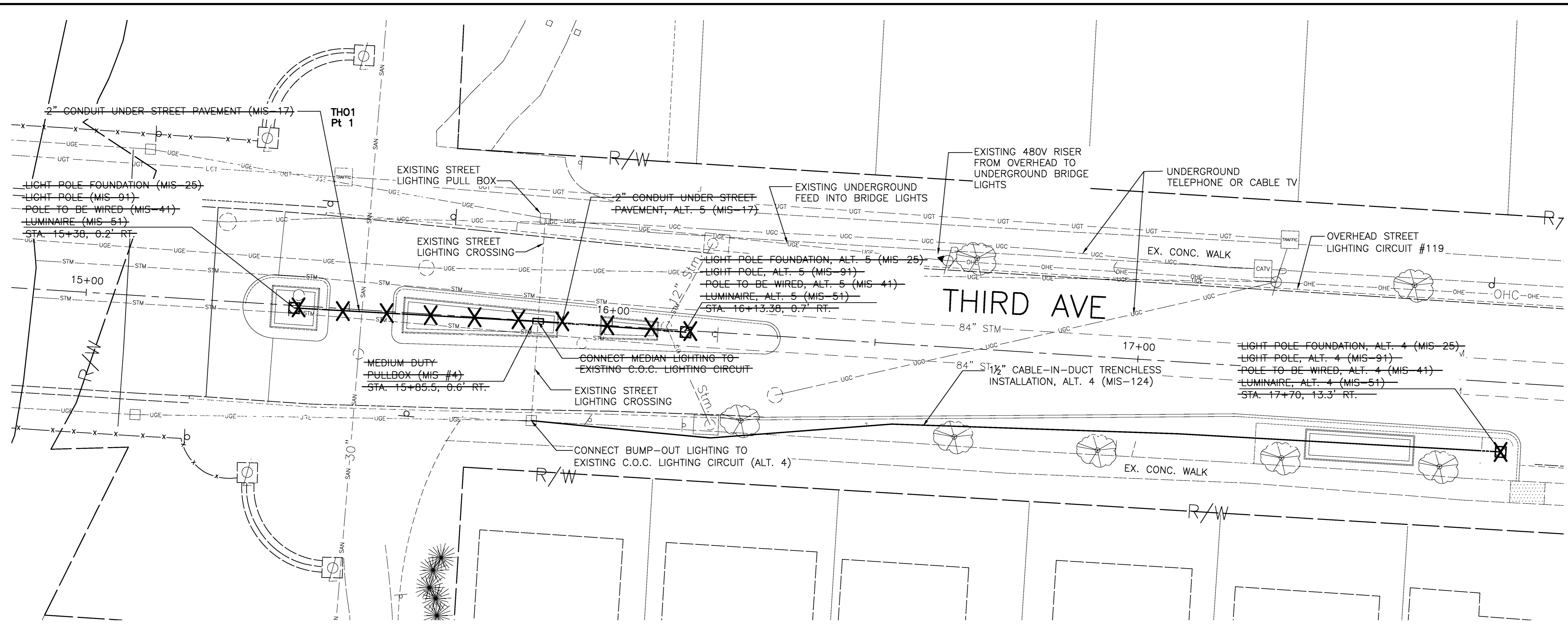
SSI OVERALL TRAFFIC MANAGEMENT PLAN
CITY OF COLUMBUS



CALCULATED
WRH
CHECKED
JMM

LIGHTING PLAN
THIRD AVE. EAST OF OLENTANGY RIVER RD.

SSI OVERALL TRAFFIC MANAGEMENT PLAN
CITY OF COLUMBUS



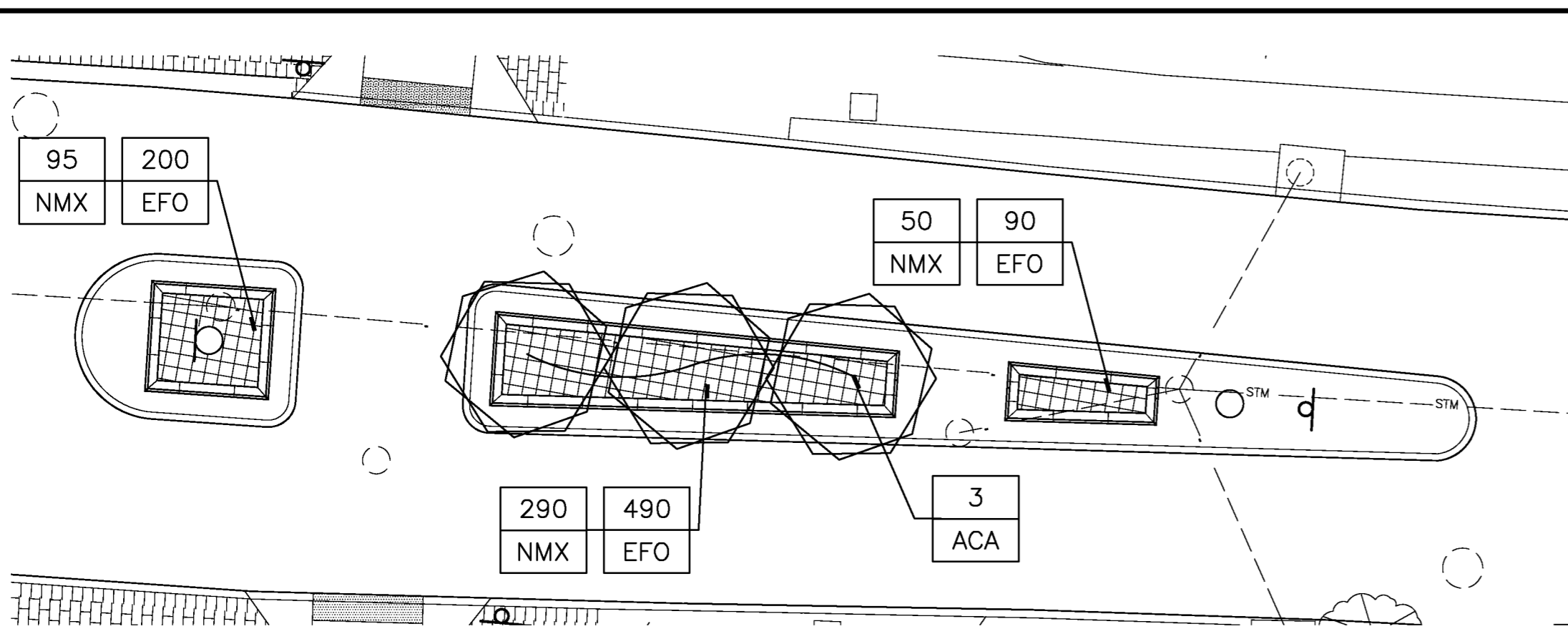
ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	TOTAL
-1000	STREET LIGHT CIRCUIT, 2 #4 5KV CABLES (MIS-14)	L.F.	56
1000	2" CONDUIT UNDER STREET PAVEMENT (MIS-17)	L.F.	46
-1000	LAMP POST FOUNDATION (MIS-25)	EACH	1
-1000	FIBERGLASS DECORATIVE LAMP POST (MIS-91)	EACH	1
-1000	POST TOP LUMINAIRE, 100W, 480V ACORN TYPE (MIS-51)	EACH	1
-1000	POLE (13' MH) TO ABE WIRED, ANCHOR BASE (MIS-41)	EACH	1
-1000	PULL BOX, MEDIUM DUTY, 13"x24" (MIS-4)	EACH	1
ALTERNATE 4-ADDITIONAL BUMP-OUT LIGHTING			
-1000	STREET LIGHT CIRCUIT, 2 #4 5KV CABLES (MIS-14)	L.F.	195
1000	1 1/2" CABLE-IN-DUCT, TRENCHLESS INSTALLATION (MIS-124)	L.F.	185
-1000	LAMP POST FOUNDATION (MIS-25)	EACH	1
-1000	FIBERGLASS DECORATIVE LAMP POST (MIS-91)	EACH	1
-1000	POST TOP LUMINAIRE, 100W, 480V ACORN TYPE (MIS-51)	EACH	1
-1000	POLE (13' MH) TO ABE WIRED, ANCHOR BASE (MIS-41)	EACH	1
ALTERNATE 5-ADDITIONAL MEDIAN LIGHTING			
-1000	STREET LIGHT CIRCUIT, 2 #4 5KV CABLES (MIS-14)	L.F.	38
-1000	2" CONDUIT UNDER STREET PAVEMENT (MIS-17)	L.F.	28
-1000	LAMP POST FOUNDATION (MIS-25)	EACH	1
-1000	FIBERGLASS DECORATIVE LAMP POST (MIS-91)	EACH	1
-1000	POST TOP LUMINAIRE, 100W, 480V ACORN TYPE (MIS-51)	EACH	1
-1000	POLE (13' MH) TO ABE WIRED, ANCHOR BASE (MIS-41)	EACH	1

NOTE: LIGHTING ITEMS SEPARATED FOR BIDDING PURPOSES ONLY

- NOTE: ALT. 4 INCLUDES ALL ITEMS NEEDED TO INSTALL BUMP-OUT LIGHTING.
- NOTE: ALT. 5 INCLUDES ALL ITEMS NEEDED TO INSTALL ADDITIONAL LIGHTING AT EAST END OF MEDIAN.
- NOTE: THE CONTRACTOR SHALL LOCATE THE CONDUIT AND CONDUCTORS OF THE EXISTING CIRCUIT AND INSTALL THE PULL BOX OVER THE CONDUIT. BREAK THE CONDUIT LEAVING NO SHARP EDGES. SPLICE CONDUITS ACCORDING TO MIS #59.
- NOTE: FINAL CIRCUIT SPLICE TO EXISTING 480V CIRCUITS SHALL BE MADE BY THE DIVISION OF ELECTRICITY ONLY UPON RECEIPT OF ELECTRICAL SERVICE CONTRACT.

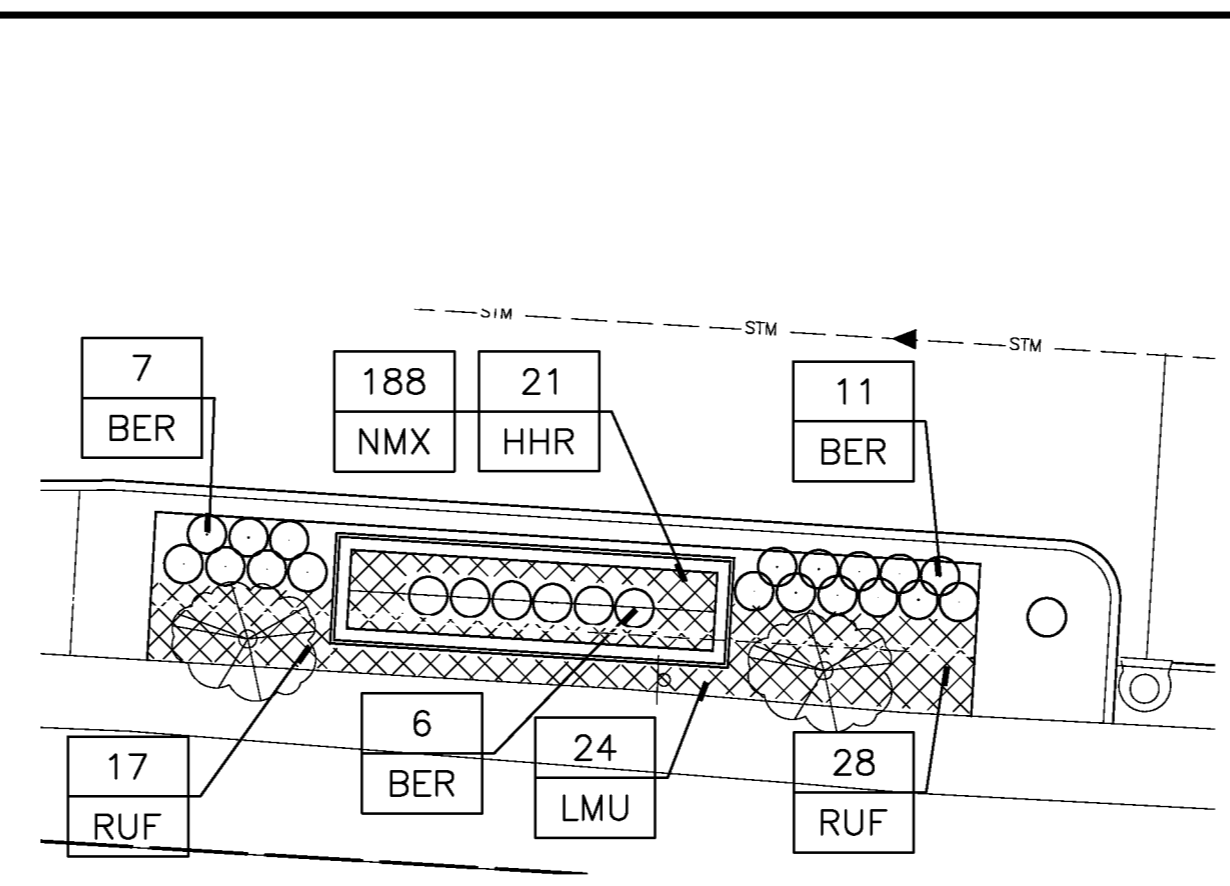
1. THE STREET LIGHTING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT CITY OF COLUMBUS, OHIO "CONSTRUCTION AND MATERIAL SPECIFICATIONS" (2002 EDITION, SECTION 1000, TITLED "STREET LIGHTING") INCLUDING ALL SUPPLEMENTS THERETO, IN FORCE ON THE DATE OF THE CONTRACT, SHALL GOVERN ALL MATERIALS AND WORKMANSHIP INVOLVED IN THE IMPROVEMENTS SHOWN ON THESE PLANS, EXCEPT AS SUCH SPECIFICATIONS ARE MODIFIED BY THE FOLLOWING SPECIFICATIONS OR BY THE CONSTRUCTION DETAILS SET FORTH HEREIN.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE POWER UTILITY. ALL COST ASSOCIATED WITH MAKING THE CONNECTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
3. CENTERLINE OF LIGHT POLE CONCRETE FOUNDATIONS TO BE PLACED IN ACCORDANCE WITH PLAN DETAILS.
4. NO SPLICES SHALL BE MADE TO CIRCUIT CABLES EXCEPT AT NOTED LOCATIONS.
5. ALL CONDUIT SHALL BE CONCRETE ENCASED PER MIS-15, MIS-16, MIS-17, AND MIS-60.
6. ALL TRENCHES IN OPEN AREAS SHALL RECEIVE CONCRETE BACKFILL IN ACCORDANCE WITH MIS-15.
7. THE CENTERLINE OF THE TRENCH SHALL BE LOCATED IN ACCORDANCE WITH THE PLAN DETAILS.
8. TRENCH LOCATION MAY BE DEFLECTED AROUND OBSTACLES AS APPROVED BY THE ENGINEER.
9. WHERE THE TRENCH IS OFFSET FROM THE CENTERLINE OF THE FOUNDATIONS THE CONDUIT SHALL BE DIRECTED TOWARD THE ELL OF THE FOUNDATION AT APPROXIMATELY 45 DEGREE ANGLES. THE FOUNDATION ELLS MAY BE AIMED OUT OF FOUNDATION AT APPROXIMATELY 45 DEGREE ANGLES TO FACILITATE CONNECTION TO CONDUIT WITH THE LEAST AMOUNT OF BENDS.
10. THE PLAN DETAILS SHALL BE CONSIDERED SUPPLEMENTAL TO MIS SPECIFICATIONS.
11. PULL BOXES SHALL BE LOCATED APPROXIMATELY WHERE SHOWN ON PLANS WITH EXACT LOCATIONS TO BE DETERMINED IN THE FIELD AFTER CONSIDERATION IS GIVEN TO THE LOCATION OF UTILITIES, PAVEMENTS, HANDICAP RAMPS, AND GRADES.
12. LIGHTING CONTRACTOR SHALL COORDINATE WITH SIGNAL INTERCONNECT CONTRACTOR FOR LOCATIONS OF SIGNAL INTERCONNECT PULL BOXES AND INTERCONNECT CONDUIT.
13. ALL CONDUIT SHALL BE INSTALLED PRIOR TO THE PLACEMENT OF ANY PERMANENT PAVEMENT, DRIVEWAY, SIDEWALK, OR SUB-BASE.
14. ALL POLES SHALL BE INSTALLED ON STANDARD 5' DEEP POLE BASE (MIS-25).

Drawing: K:\210017\City Third East of Olentangy\210017\Traffic Management\210017\Traffic Management.dwg, Sheet: 01 of 01, Date: 12/01/08 09:25, Revised by: cfm, Title: 1:00, Plot scale: 1"=100/75



MEDIAN LANDSCAPE PLAN

SCALE: 1" = 10'

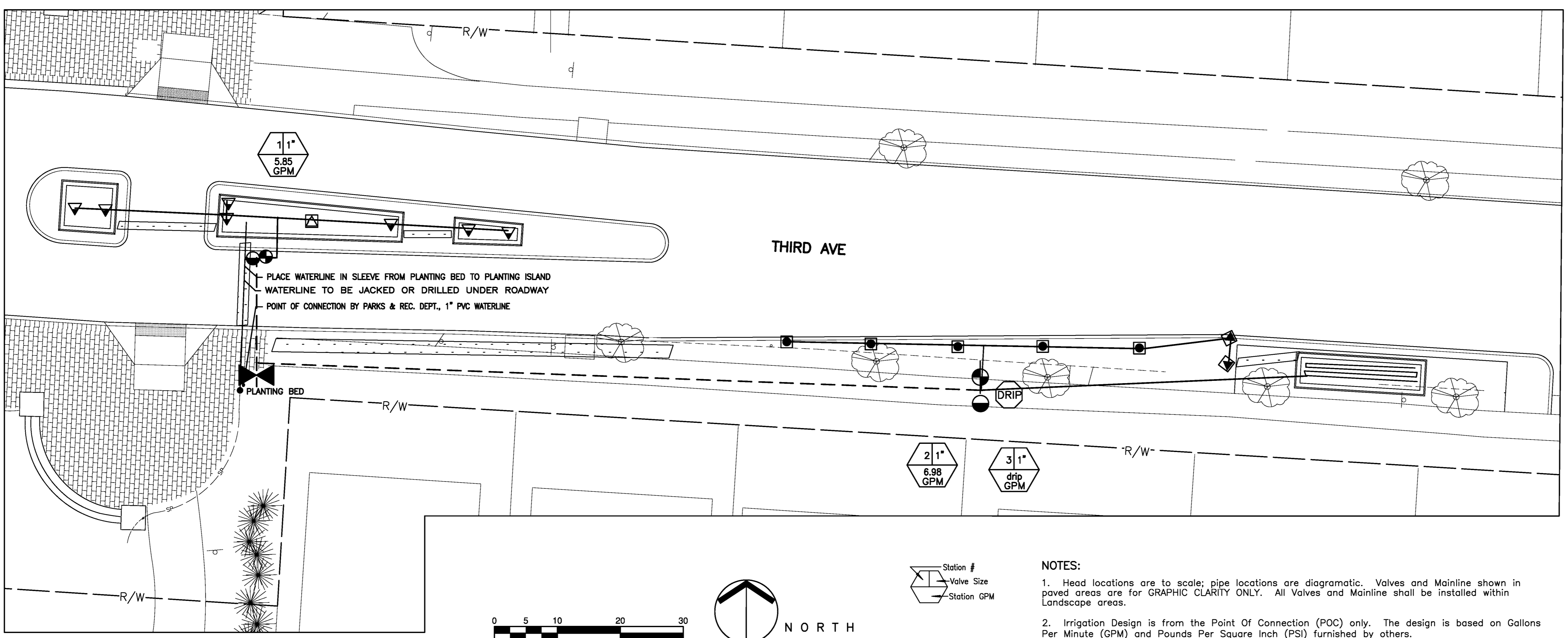


BUMP-OUT LANDSCAPE PLAN

SCALE: 1" = 10'

PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
ACA	AMELANCHIER CANADENSIS	SHADBLOW SERVICEBERRY	1-1/2" CAL.	B & B - Single Stem
BER	BERBERIS T.A. 'NANA'	CRIMSON PYGMY BARBERRY	3 GAL.	CONT.
EFO	EUONYMUS FORTUNEI	WINTERCREEPER	---	FLAT
NMX	NARCISSUS X MIX	50/50 MIX OF DUTCH MASTER AND ICE FOLLIES DAFFODILS	---	BULB
LMU	LIRIOPE MUSCARI 'BIG BLUE'	BIG BLUE LILY TURF	1 GAL.	CONT.
RUF	RUDBECKIA FULGIDA SP 'GOLDSTRUM'	BLACK EYED SUSANS	1 GAL.	CONT.



Irrigation

Quantity	Symbol	Description
3	▽	Hunter LCS-515 PROS-12
4	▽	Hunter RCS-515 PROS-12
1	▽	Hunter SS-530 PROS-12
1	⊗	Line Size Isolation Valve
1	⊗	Hunter SVC-100-VALVE
1	⊗	Quick Coupler QCV100B
78.44	—	Class 200 1"
20.45	---	MAIN LINE Class 200 1"
35.99	---	Schedule 40 2"

Irrigation

Quantity	Symbol	Description
2	▣	Hunter 8Q PROS-04
5	▣	Hunter SS-530 PROS-04
1	⊗	Hunter PCV-100A with a SVC-200
1	⊗	Hunter PCZ-100
1	⊗	Quick Coupler QCV100B
115.08	—	MAIN LINE Class 200 1"
133.98	---	Class 200 1"
72.85	---	Schedule 40 2"
72.66	---	TLCV-06-12

NOTES:

- Head locations are to scale; pipe locations are diagrammatic. Valves and Mainline shown in paved areas are for GRAPHIC CLARITY ONLY. All Valves and Mainline shall be installed within Landscape areas.
- Irrigation Design is from the Point Of Connection (POC) only. The design is based on Gallons Per Minute (GPM) and Pounds Per Square Inch (PSI) furnished by others.
- All heads to be installed on swing joints or flexible poly-whip (10" minimum).
- Optional Quick Coupler Valves to be set in turf flush with grade on swing joints. All electric valves shall be located in valve boxes flush with grade.
- All wire splices or connections shall be made with waterproof wire connectors and be in valve or splice boxes.
- Piping crossing under concrete or asphalt in excess of 4' shall be in rigid sleeving 2X pipe O.D.
- Flow pattern and distance of spray shall be regulated with the use of adjustment screw(s) to minimize overthrow onto paved areas; however, radius shall not be reduced more than 25% or allowed to cause a lack of coverage.
- No allowances made for obstructions not shown on plan. Adjustments necessary in the field shall be made by the contractor.
- Optional Rain Sensor shall be wired into bypass switch box next to controller or terminals provided internally. Rain sensor shall be mounted to a rigid surface in open area.
- No changes to plan or materials is allowed without prior consent of irrigation consultant.
- Bidding contractors should become thoroughly familiar with all facets of the proposed irrigation system. Failure to clarify misunderstandings, or intent of these drawings and specifications before submittal of bid shall be the responsibility of the contractor.
- Irrigation Contractor will arrange inspections required by local agencies and ordinances during the course of construction as required. ALL WIRING PER LOCAL CODE. BACKFLOW PREVENTION AS PER LOCAL CODE.

MEDIAN IRRIGATION (ALT. #3)

SCALE: 1" = 10'



STATIC PRESSURE 65 PSI
WATER SERVICE G.P.M. 15 GPM

Designed by: L.VARGO

Drawn by: L.VARGO

Checked by: L.VARGO

Scale:
1" = 10'

Project Number:
1142639

Sheet Number:
1 OF 1

- 3.11 FIELD QUALITY CONTROL
- A. Testing: Hydrostatically test piping and valves before backfilling trenches. Piping may be tested in sections.
 - 1. Cap and test piping with static water pressure of 50 psig above system operating pressure and without exceeding pressure rating of piping system materials. Isolate test source and allow to stand for four hours.
 - 2. Repair leaks and defects with new materials and retest system or portion thereof until satisfactory results are obtained.
- 3.12 CLEANING AND ADJUSTING
- A. Flush dirt and debris from piping before installing sprinklers and other devices.
 - B. Adjust automatic control valves to provide flow rate of rated operating pressure required for each sprinkler circuit.
 - C. Carefully adjust lawn sprinklers so they will be flush with, or not more than 1/2" above, finish grade.
 - D. Adjust settings of controllers and automatic control valves.
 - 1. Program, test, and demonstrate the controllers by operating appropriate day, hour, and station selection features as required to automatically start and shut down irrigation cycles to accommodate plant requirements and weather conditions. Test rain sensor and associated circuitry.
 - E. Starting Procedures: Follow manufacturer's written procedures. If no procedures are prescribed by manufacturers, proceed as follows:
 - 1. Verify that specialty valves and their accessories are installed and operate correctly.
 - 2. Verify that specified tests of piping are complete.
 - 3. Verify that sprinklers and devices are correct type.
 - 4. Verify that damaged sprinklers and devices are replaced with new materials.
 - 5. Verify that potable-water supply connections have backflow preventers.
 - 6. Energize circuits to electrical equipment and devices.
 - 7. Adjust operating controls.
- 3.13 SYSTEM TESTING
- A. Program, test, and demonstrate the controller by operating appropriate day, hour, and station selection features as required to automatically start and shut down irrigation cycles to accommodate plant requirements and weather conditions. Test rain sensor and associated circuitry.
 - B. Operational Tests: Measure and record water flow rate and area coverage at each sprinkler. Adjust to achieve indicated values.
- 3.14 INSTRUCTION: Instruct the Owner's designated personnel in the operation of the system, including adjustment of sprinklers, controller, valves, moisture sensing controls, programming, and winterization requirements. Upon acceptance, the Owner will assume operation of the system, except for the initial fall winterization and spring start-up services.
- 3.15 SYSTEM WINTERIZATION AND SPRING START-UP: In the subsequent fall season, return to the site and completely winterize the system. Drain all water from the system with compressed air connected to the winterization valve. Return to the site during the subsequent spring season and demonstrate to the Owner the proper procedures for system start-up, operation, and maintenance.

END OF SECTION 02813

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IRRIGATION SPECIFICATIONS
 THIRD AVE EAST OF OLENTANGY RIVER RD

SSI OVERALL TRAFFIC MANAGEMENT PLAN
 CITY OF COLUMBUS

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B. Trees and Shrubs:

1. Pits and Trenches: Excavate circular pits with sides sloped inward. Trim base leaving center area raised slightly to support root ball and assist in drainage. Do not further disturb base. Scarify sides of plant pit smeared or smoothed during excavation. Excavate approximately three times as wide as ball diameter.
2. Set trees and shrubs plumb and in center of pit or trench with top of root ball 1" above adjacent finish grades.
 - a. Balled and Burlapped: Remove burlap and wire baskets from tops of root balls and partially from sides, but do not remove from under root balls. Remove pallets, if any, before setting. Do not use planting stock if root ball is cracked or broken before or during planting operation.
 - b. Balled and Potted or Container Grown: Carefully remove root ball from container without damaging root ball or plant.
 - c. Fabric Bag Grown: Carefully remove root ball from fabric bag without damaging root ball or plant. Do not use planting stock if root ball is cracked or broken before or during planting operation.
 - d. Place planting soil mix around root ball in layers, tamping to settle mix and eliminate voids and air pockets. When pit is approximately one-half backfilled, water thoroughly before placing remainder of backfill. Repeat watering until no more water is absorbed. Water again after placing and tamping final layer of planting soil mix.
3. Organic Mulching: Apply 3" average thickness of organic mulch extending 12" beyond edge of planting pit or trench. Do not place mulch within 3" of trunks or stems.

C. Tree Guying and Staking

1. Trees are not to be wrapped with tree wrap unless specifically directed by the Architect.
2. Stake and guy trees after lawn seeding or sodding operations are complete, and when high winds or other conditions which may affect tree survival or appearance occur.
3. Deciduous Trees: Stake trees under 1½" caliper; Guy trees 2½" caliper and larger.
4. Evergreen Trees: Stake trees 8'-0" tall and under; Guy trees 8'-0" tall and greater.

D. Tree and Shrub Pruning: Prune, thin, and shape trees and shrubs according to standard horticultural practice. Prune trees to retain required height and spread. Do not cut tree leaders; remove only injured or dead branches from flowering trees. Prune shrubs to retain natural character. Shrub sizes indicated are sizes after pruning.

E. Ground Cover and Plant Planting:

1. Set out and space ground cover and plants as indicated.
2. Dig holes large enough to allow spreading of roots, and backfill with planting soil.
3. Work soil around roots to eliminate air pockets and leave a slight saucer indentation around plants to hold water.
4. Water thoroughly after planting, taking care not to cover plant crowns with wet soil.
5. Protect plants from hot sun and wind; remove protection if plants show evidence of recovery from transplanting shock.

F. Planting Bed Mulching:

1. Install weed-control barriers before mulching according to manufacturer's written instructions. Completely cover area to be mulched, overlapping edges a minimum of 6".
2. Mulch backfilled surfaces of planting beds and other areas indicated. Apply 3" average thickness of mulch, and finish level with adjacent finish grades. Do not place mulch against plant stems.

G. Protect exterior plants from damage due to landscape operations, operations by other contractors and trades, and others. Maintain protection during installation and maintenance periods. Treat, repair, or replace damaged exterior planting.

H. Remove surplus soil and waste material, including excess subsoil, unsuitable soil, trash, and debris, and legally dispose of them off Owner's property.

END OF SECTION 02930

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LANDSCAPE SPECIFICATIONS
THIRD AVE EAST OF OLENTANGY RIVER RD

SSI OVERALL TRAFFIC MANAGEMENT PLAN
CITY OF COLUMBUS

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