

CITY OF ANN ARBOR

PUBLIC SERVICES - ENGINEERING AND DOWNTOWN DEVELOPMENT AUTHORITY

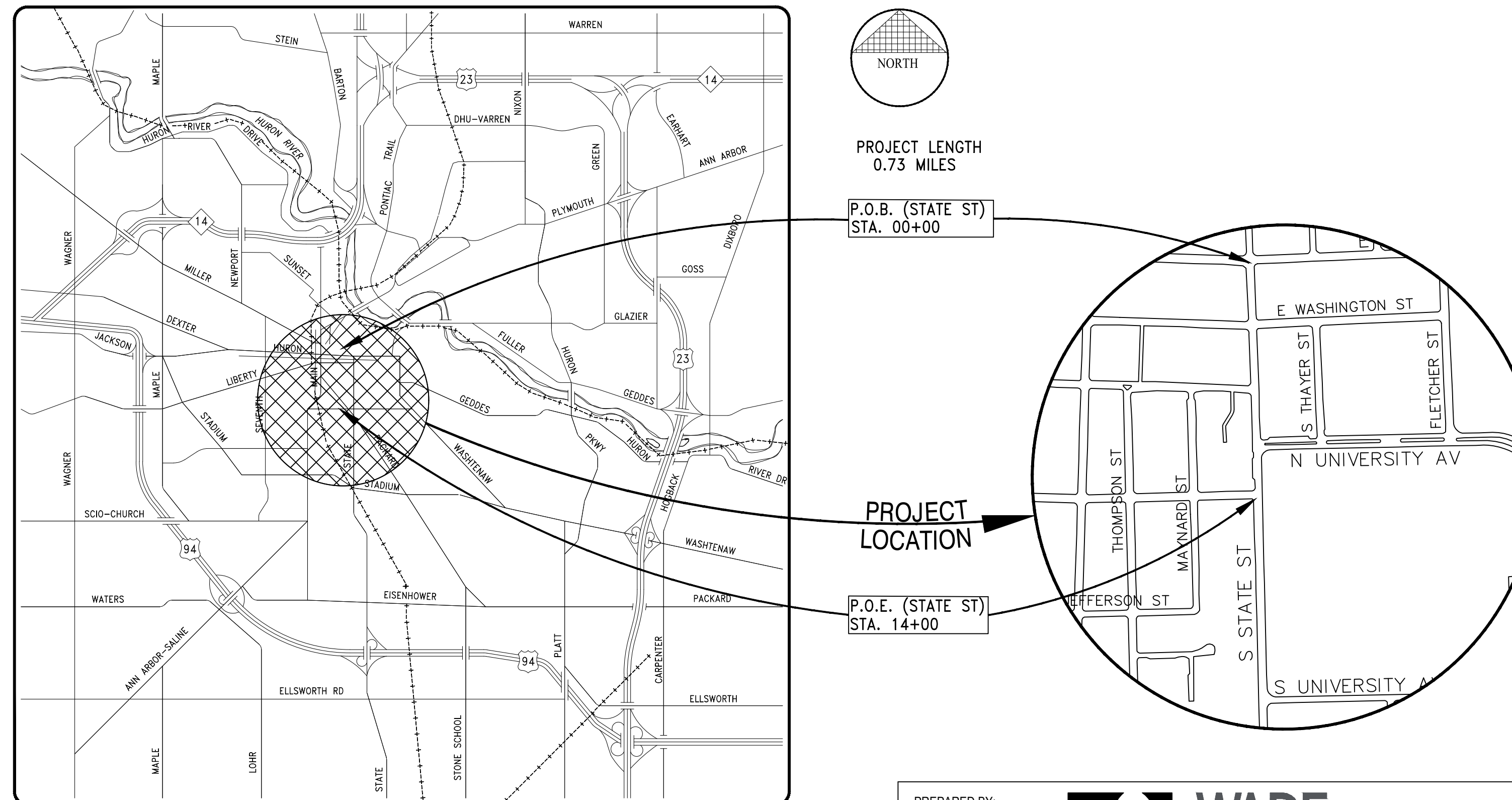
IN COOPERATION WITH THE UNIVERSITY OF MICHIGAN


NOTES:
THE UNDERGROUND LOCATIONS SHOWN FOR NATURAL GAS, TELEPHONE, ELECTRICAL POWER, CABLE TV AND FIBER OPTIC LINES ARE APPROXIMATE. THE DOWNTOWN DEVELOPMENT AUTHORITY, OR DDA, ASSUMES NO RESPONSIBILITY FOR THEIR ACCURATE REPRESENTATION IN THIS DRAWING. MISS DIG MUST BE CONTACTED PRIOR TO CONSTRUCTION TO LOCATE THESE UTILITIES.

SOUTH STATE STREET RECONSTRUCTION

RFP #22-19
ISSUED FOR BIDS
FEBRUARY 18, 2022

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<p>PREPARED BY:</p>  <p>555 S. Saginaw Street, Suite 201 Flint, MI 48502 810.235.2555 www.wadetrिम.com</p> <p>CONTACT: BRIAN SLIZENSKI, PE CITY OF ANN ARBOR - PUBLIC SERVICES - ENGINEERING (734) 794-6410 #43607</p>	<p>SMITHGROUP</p> <p>201 DEPOT STREET ANN ARBOR, MI 48104 734.662.4457 www.smithgroup.com</p>	<p>DRAWING NO. G1.00</p>
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811
Know what's below.
Call before you dig.

FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 53, THE CONTRACTOR SHALL DIAL 1-800-482-7171 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL THUS BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

STATE ST STREETSCAPE

ABBREVIATIONS	
A	MOD MODIFIED
ABD	ABANDONED
AC	ACRES
APPROX	APPROXIMATE
ARCH	ARCHITECT(URAL)
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
B	
B.M.	BENCHMARK
BIT	BITUMINOUS
BLDG	BUILDING
B/F	BOTTOM OF FOOTING
B/S	BOTTOM OF SWALE
B/W	BOTTOM OF WALL (FINISH GRADE)
C	
CB	CATCH BASIN
CI	CURB INLET
CL	CAST IRON PIPE CLASS
CMP	CORRUGATED METAL PIPE
CON	CONDENSATE
CO	CLEANOUT
CONC	CONCRETE
CONTR	CONTRACTOR
CU FT	CUBIC FOOT
CURV	CURVATURE
CU YD	CUBIC YARD
D	
DEMO	DEMOLISH
DEPT	DEPARTMENT
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DWG	DRAWING
E	
E	EAST, EASTING COORDINATE
EA	EACH
EG	EXISTING GRADE
ELEV	ELEVATION
E/M	EDGE OF METAL (EDGE OF GUTTER)
EQ	EQUAL
EX	EXISTING
F	
FF:	FINISH FLOOR ELEVATION
FG	FINISH GRADE
FLASH	FLASHING
FM	FORCE MAIN
FT	FOOT, FEET
FURN	FURNISHING
G	
GALV	GALVANIZED
GAS	NATURAL GAS
G/C:	GUTTER OF CURB (FLOWLINE)
GVL	GRAVEL
H	
H	HIGH
HB	HOSE BIBB
HCAP	ADA HANDICAP
HDPE	HIGH-DENSITY POLYETHYLENE
HMA	HOT MIX ASPHALT
HORZ	HORIZONTAL
HP	HIGH POINT
HT	HEIGHT
I	
I.D.	INNER DIAMETER
IN	INCH, INCHES
INCL	INCLUDE, INCLUDING
INL	INLET
INV:	PIPE INVERT ELEVATION
IRR	IRRIGATION
J	
JT	JOINT
L	
L	LENGTH
LF	LINEAR FEET
LPT	LOW POINT
LN	LANE
LT	LIGHT
LTC	LIGHTING
M	
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
M.E.	MATCH EXISTING
MED	MEDIUM
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS

CONSTRUCTION NOTES	
1.	This project is being completed by the Ann Arbor Downtown Development Authority (DDA) and in coordination with the City of Ann Arbor (City).
2.	The Construction covered by these plans shall conform to the 1994 edition of the City of Ann Arbor Public Services Department Standard Specifications and its details which are included by reference.
3.	The omission of any current Standard Detail does not relieve the Contractor from this requirement. The work shall be performed in complete conformance with the current Public Services Standard Specifications and Details.
4.	Driveways and entrances to buildings, real property, and the like shall not be blocked except for short durations and only when approved by the Engineer. Vehicular and pedestrian access shall be maintained at all times. It shall be the Contractor's responsibility to coordinate all necessary driveway closures with the property owner(s) and resident(s) in the areas of construction.
5.	The location and depth of all existing utilities and service leads are to be field verified by the Contractor prior to construction.
6.	Location and depth of utilities as depicted on the plans are approximate and shown according to the best information available. It is the Contractor's responsibility to excavate ahead and adjust depth of conflict utilities accordingly. Any damage to utilities is the Contractor's responsibility to avoid and/or repair as necessary.
7.	The Contractor is to take special care to protect the existing water main and be responsible for maintaining consistent water service.
8.	During non-working hours no trench shall remain open; any open trench shall be properly secured with protective fencing. This work shall be included in the item of work "General Conditions".
9.	"No Parking" signs shall be installed by the Contractor at locations as approved or directed by the Engineer. All signs shall be installed in accordance with the detailed specifications.
10.	Postal delivery and refuse pickup service shall be maintained at all times by the Contractor.
11.	All light poles, luminaires, signs, fittings, hydrants, valves and castings removed during construction are the property of the City of Ann Arbor. The Contractor within 48 hours shall deliver to City of Ann Arbor Field Operations and Maintenance Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
12.	Where street curbs are undermined due to construction activities, they shall be removed and replaced as directed by the Engineer.
13.	The Contractor shall be responsible for the continuous maintenance of the temporary road surface and soil erosion control measures within the construction area until the full completion of the project. This work shall be included in the item of work "General Conditions".
14.	All new and existing storm inlets within the project shall have inlet filter protection for the duration construction.
15.	All curb, sidewalk, driveway approach removals shall be approved by Engineer before the work is done.
16.	Sawed sewer pipe connections shall be coupled with a Fernco flexible coupling and a stainless steel shear ring.
17.	The location of material stock piles and on-site staging areas to be approved by the Engineer.
18.	For mainline paving, the width of the mat for each pass of the paver shall be not less than 10.5' or greater than 15', as directed by the Engineer. The Engineer will direct the layout of the longitudinal joints during construction.
19.	All structures shall receive new castings as directed by the Engineer, as specified on the standard casting schedule. The existing castings are the property of the City of Ann Arbor. The Contractor shall deliver to City of Ann Arbor Field Operations and Maintenance Facility at the W.R. Wheeler Service Center located at 4251 Stone School Road.
20.	Payment for drainage structure sumps, where specified, shall be included in the payment for the various drainage structure sizes and or types.
21.	Where sewer pipes of different sizes or materials are joined, Fernco flexible couplings with stainless steel shear rings shall be used. The Contractor's purchase price for these devices, including shipping, shall be paid as an extra. Prior to payment for this item, the Contractor shall submit receipts for the Engineer's review and approval. All other costs associated with the installation of these devices shall be included in the payment for the sewer.
22.	Where sewer and water main are to be removed & replaced or added, all pipe shall be installed using Trench Detail detailed in the specifications or shown on Plans. Backfill for sewer and water construction shall be MDOT Granular Material, Class II, Modified.
23.	Existing street name, guide, and regulatory signs, and mailboxes which conflict with the proposed construction shall be removed prior to construction, stored in a manner which will prevent damage, and re-set in locations as directed by the Engineer. This work will not be paid for separately, but shall be included in "Machine Grading, Modified"
24.	Pavement markings disturbed as a result of pavement cuts or construction activities shall be replaced as directed by Project Management. Replacement during construction of the project may be considered temporary, with final pavement marking restoration to occur at the end of the project.
25.	The contractor shall take all necessary precautions to protect the existing public road pavement. Damage to the public road pavement during the course of construction may necessitate milling and resurfacing of the damaged areas prior to acceptance.
26.	Detour signage that have two street name plaques under them must have a minimum bottom height of 6 feet. The minimum sign bottom height for signs in a curb/gutter area without plaques underneath is 7 feet.
27.	Access to all residential and commercial driveways must be maintained at all times.
28.	All traffic control devices and their usage must conform to the Michigan Manual of Uniform Traffic Control Devices (MMUTCD), 2011 edition.
29.	During the lane closures access for emergency vehicles (fire, ambulance, police) must be maintained to adjacent homes, businesses, and subdivisions at all times.
30.	Temporary warning, regulatory, and guide signs not required for a particular lane or shoulder closure must be removed, covered, or laid down with the legs removed.
31.	All existing pavement markings that are removed for traffic control or obliterated during construction operations must be replaced with the relevant pavement marking materials as defined in the project pay items and specifications. This includes the Special markings - Overlay Cold Plastic - (special emphasis crosswalk arrows, 24 inch stop bar).
32.	Any MDOT signs that are removed for traffic control or obliterated during construction operations must be replaced in kind on new supports.
33.	All sign materials and supports must meet NCHRP-350 crash worthy requirements.
34.	In areas where edge drain cannot be installed in accordance with city of Ann Arbor detail SD-TD-11, the edge drain shall be installed at the depth as indicated on the plans, or as directed by engineer. In no case shall the edge drain will be installed at a grade less than 0.50% or at a depth of less than 2' below top of proposed pavement.
35.	Contractor shall not store or place equipment and/or materials inside drip line of any city tree. Mechanical damage to city owned trees (I.E. bark damage, branch breakage) is not permitted. Contractor is responsible for properly pruning trees to prevent damage. If branches greater than 2" in diameter require pruning, contractor to contact forestry for consultation and evaluation at (734) 794-6320. No roots of the city-owned trees greater than 2 inches in diameter are to be cut. If contractor encounters city-owned trees with roots greater than 2 inches in diameter that they determine need to be cut, contact forestry immediately for evaluation. all trenching and bore pits of any kind shall be clear of tree drip lines. If any city-owned street trees are damaged by this work, the contractor must contact forestry as soon as possible so that the damage can be assessed. Contractor will be responsible for all costs associated with damage remediation.
36.	Pavement removal limits to be discussed and approved by Engineer prior to work being done. During utility construction only remove pavement needed for installation.
37.	Coordinate site removals with the City of Ann Arbor Signs, Signals and IT departments and protect all conduit and related facilities to remain per the City and Engineer.

WATER MAIN CONSTRUCTION NOTES	
1.	See removal sheets for details on placement, maintenance, and removal of erosion control items.
2.	The contractor shall carefully protect from damage or injury during construction operations all utilities, site features, landscaping, and other items not designated for removal or abandonment. Payment for protection of utilities included in "general conditions, max". Existing facilities not designated for removal or abandonment, but which are damaged by the contractor's operation shall be repaired or replaced by the contractor at his sole expense, as determined by the engineer.
3.	The existing utilities shown on these plans represent the best information available as obtained through surveys and/or existing plans. This information does not relieve the contractor of the responsibility to be satisfied as to its accuracy and the location of existing utilities. If storm or watermain cross other utilities, contact their respective owners for information on how to proceed. Payment for the coordination efforts and associated items shall be included in associated proposed storm or watermain items and shall not be paid for separately.
4.	The contractor shall carefully protect from damage or injury the existing water main during construction operations. Any damage to this facility by the contractor's operation shall be repaired or replaced by the contractor at his expense, as determined by the engineer. Payment for protection of the existing water main will not be paid for separately, but shall be included in the item of work "general conditions, max".
5.	The contractor shall not remove or damage existing sanitary sewer or water main leads for ease of constructing other aspects of work. The contractor shall carefully protect all leads from damage or injury.
6.	The construction covered by these plans shall conform to the city of Ann Arbor public services department standard specifications which are included by reference. The omission of any current standard detail does not relieve the contractor from the requirement. The work shall be performed in complete conformance with current public service department standard specifications and details.
7.	All water main shall be thickness class 50 ductile iron water main, cement-lined (double thickness), with polywrap unless noted otherwise.
8.	Restrained joint systems shall be utilized on all water main. Restrained joint gasket systems are to be used. (field-lok 350 by u.s. pipe, fast-grip by American ductile iron pipe, or approved equal)
9.	All water main to have 5.5 feet of cover. Maintain a minimum of 18-inch vertical clearance for storm and sanitary crossings and a minimum of 12-inch vertical clearance with all other utilities.
10.	Unless otherwise noted, the contractor shall utilize standard pipe deflections for following the proposed alignment.
11.	New fire hydrants shall be EJIW 5br with one 5-inch integral Storz connection and one 3-3/8"x7.5" pumper nozzle. Hydrants shall have 5.5 feet of cover.
12.	Fire hydrant assemblies shall include all necessary hydrant extensions, thrust blocks, pipe and fittings, including adjustment of the companion valve. Fire hydrant assembly includes 6-inch companion valve located three feet from the hydrant.
13.	All water main trench backfill shall be MDOT class II granular material (see utility trench type i detail).
14.	Connections to the existing water main shall not be made until the new main has been successfully tested and has passed all hydrostatic and bacteriological testing. Final connections shall be coordinated with the engineer.
15.	The contractor shall perform all water system shut downs after appropriate notification to those affected and approval has been granted by the engineer.
16.	Water services shown represent the best information available based on records. It is the contractor's responsibility to coordinate with the city in locating, verifying and reconnecting all existing active services.
17.	All line stop locations shall be determined by the city engineer as needed. This item of work shall be paid for as "line stop, ductile iron pipe, _inch."
18.	Water main connections to existing are not paid separately but shall be included in water main pay items. cut and caps/plugs of existing mains as indicated on drawings or as directed by engineer shall be included in water main abandonment pay items.
19.	Trenches for new water services shall be excavated to MIOSHA and City of Ann Arbor Field Services requirements.
20.	City of Ann Arbor Field Services will install the corporation and copper service lead(s) to transfer the connection(s). If an existing water service is found to be failing or is not copper, the lead will be replaced to the curb box by Field Services.
21.	For the installation of corporations, or any other related activities, the Contractor shall not receive additional compensation for delays due to the scheduling of or coordination with the City of Ann Arbor Field Services.
22.	The Contractor shall backfill trenches in accordance with Trench Detail specified on plans. This work shall be included in the item of work "Excavate and Backfill for Water Service Tap and Lead". All concrete removals and replacements required for this work will be paid for separately.
23.	All ductile iron pipe and fittings shall be polyethylene wrapped per ANSI/AWWA C105/A21.5.
24.	Cor-blw bolts to be used at all mechanical water main joints at hydrants and Megalug fittings.

PERMITS REQUIRED TO BE OBTAINED BY THE CONTRACTOR PRIOR TO THE BEGINNING OF CONSTRUCTION.	
PERMIT	ISSUING AUTHORITY
LANE CLOSURE PERMIT*	CITY OF ANN ARBOR PROJECT MANAGEMENT UNIT
"NO PARKING" SIGNS PERMIT*	CITY OF ANN ARBOR PROJECT MANAGEMENT UNIT
GRADING/SOIL EROSION & SEDIMENTATION CONTROL PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
RIGHT-OF-WAY PERMIT*	CITY OF ANN ARBOR CUSTOMER SERVICE
FLOODPLAIN PERMIT	EGLE
* NO COST TO CONTRACTOR	

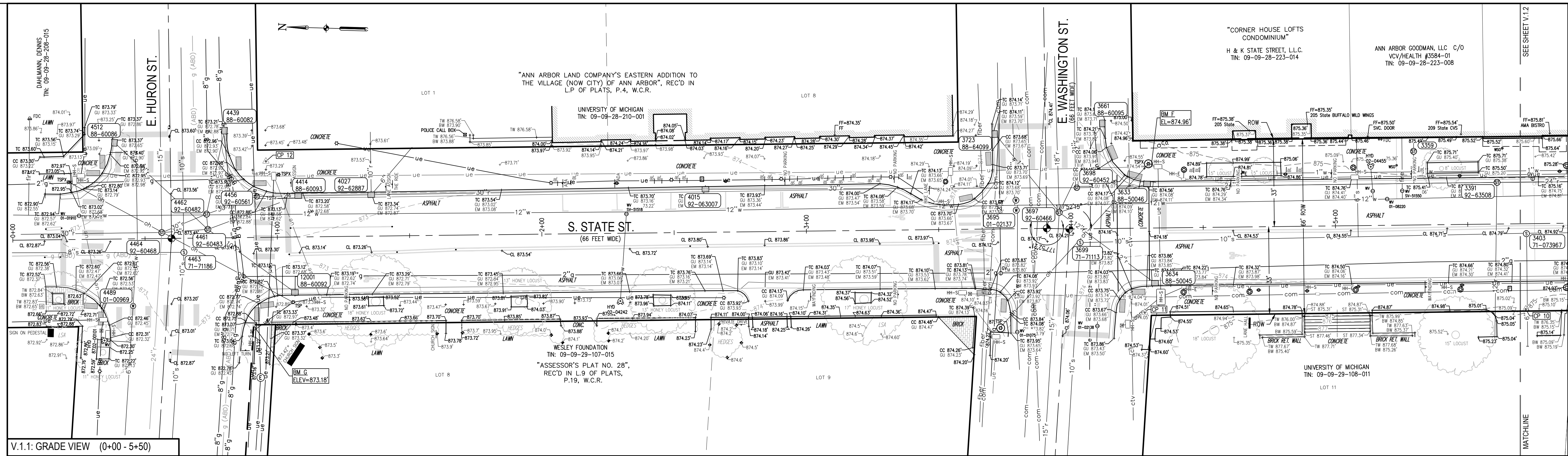
PERMITS REQUIRED TO BE OBTAINED BY THE CITY OF ANN ARBOR PRIOR TO THE BEGINNING OF CONSTRUCTION.	
PERMIT	ISSUING AUTHORITY
M.D.E.Q. WATER MAIN CONSTRUCTION PERMIT	MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

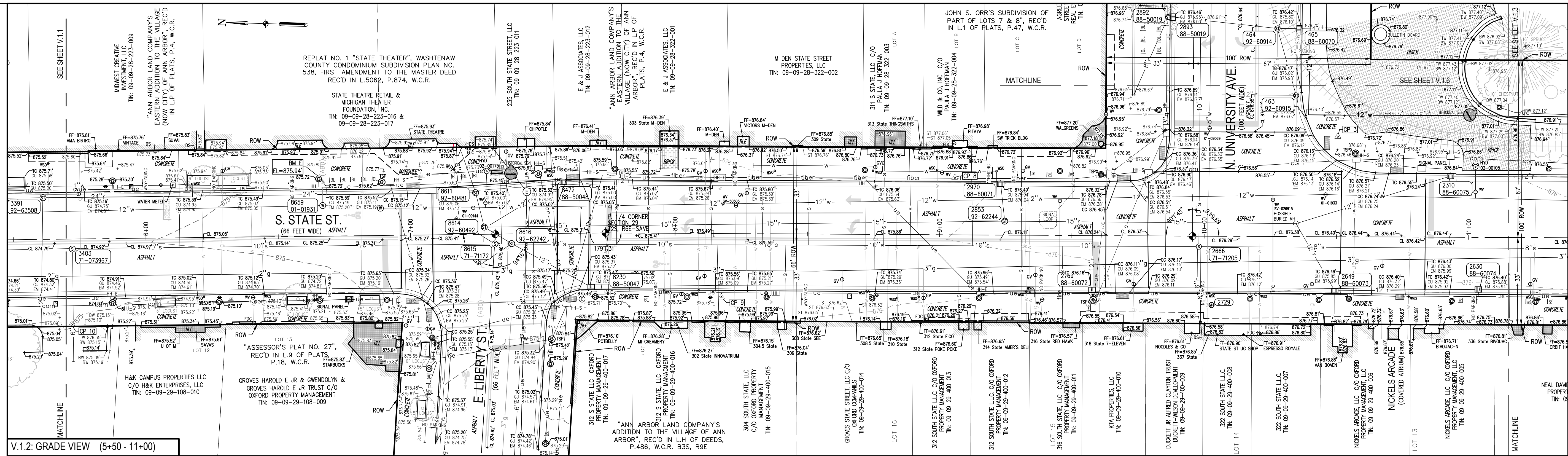
CONTACT INFORMATION		
PUBLIC UTILITIES	OWNER	CONTACT
WATER	CITY OF ANN ARBOR FIELD OPERATIONS SERVICE UNIT W.R. WHEELER SERVICE CENTER 4251 STONE SCHOOL ROAD ANN ARBOR, MI 48108	(734) 794-6350
SANITARY STORM		(734) 794-6450
FORESTRY		(734) 794-6320
SIGNS SIGNALS STREET LIGHTS		(734) 794-6410
PRIVATE UTILITIES	OWNER	CONTACT
GAS	DTE ENERGY 17150 ALLEN RD. MELVINDALE, MI 48122	JACK WHYATT (313) 701-1355
ELECTRIC	DTE ENERGY WESTERN WAYNE SERVICE CENTER 8001 HAGGERTY ROAD BELLEVILLE, MI 48111	CLAY COMBEE (734) 397-4112
CABLE	COMCAST 27800 FRANKLIN ROAD SOUTHFIELD, MI 48034	RON SUTHERLAND (313) 999-8300
PHONE	AT&T 550 S. MAPLE ROAD ANN ARBOR, MI 48103	BRIAN BERRY (734) 996-2135
STEAMMISIC UTILITIES	UNIVERSITY OF MICHIGAN	JUSTIN CLARK (734) 763-2084
FIBER OPTIC	MCI 2800 N. GLENVILLE ROAD RICHARDSON, TX 75082	DEAN BOYERS (972) 729-6016

WATER MAIN CONSTRUCTION NOTES							
25.	The Contractor shall construct, flush, and bacteriologically test the water main per Detailed Specification "Water Main and Appurtenances" and as approved by the Engineer. All chlorinated water shall be discharged directly into an approved sanitary sewer. The Contractor shall supply all necessary hoses, fittings and the like to accomplish this work.						
26.	Water main fittings, other than those specifically listed as separate pay items, which are required to complete the work, such as blow-off assemblies, concrete thrust blocks, solid sleeves and mechanical plugs, shall not be paid for separately, but shall be included in the pipe pay items.						
27.	Line stops shall be installed where existing water mains cannot be sufficiently isolated to complete the work.						
STATE ST STREETScape - CITY OF ANN ARBOR							
GENERAL NOTES							
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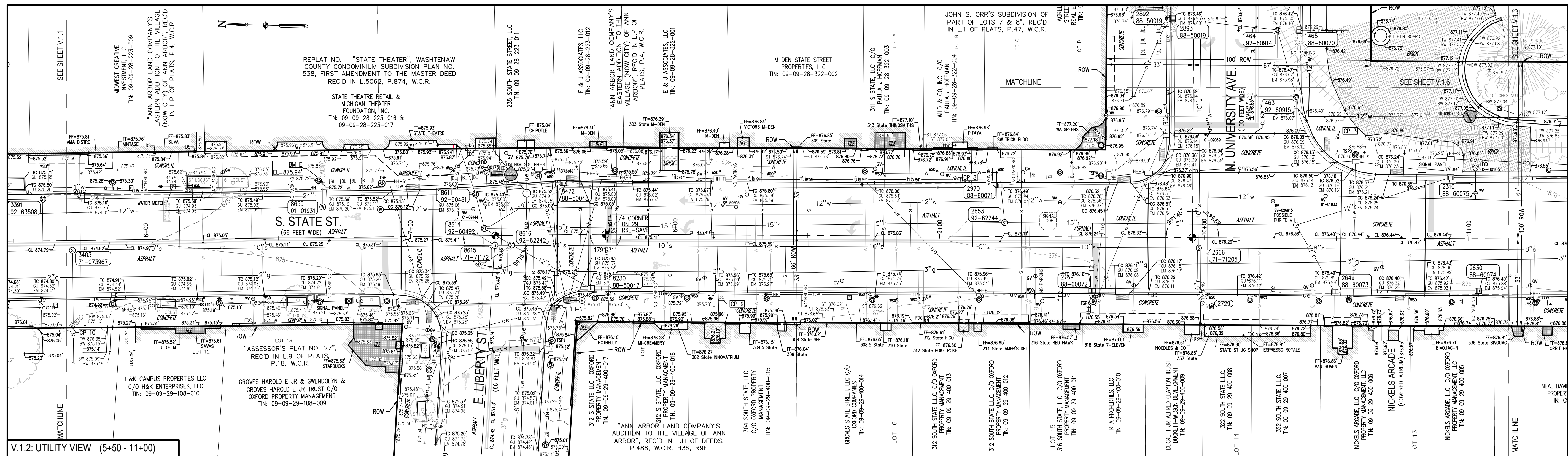
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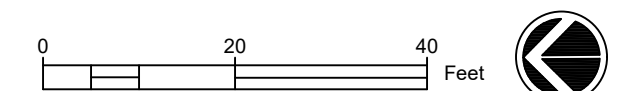




V.1.2: GRADE VIEW (5+50 - 11+00)



V.1.2: UTILITY VIEW (5+50 - 11+00)

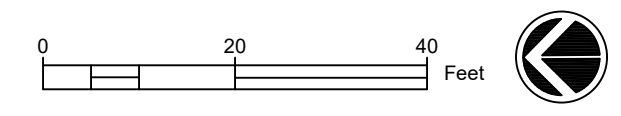
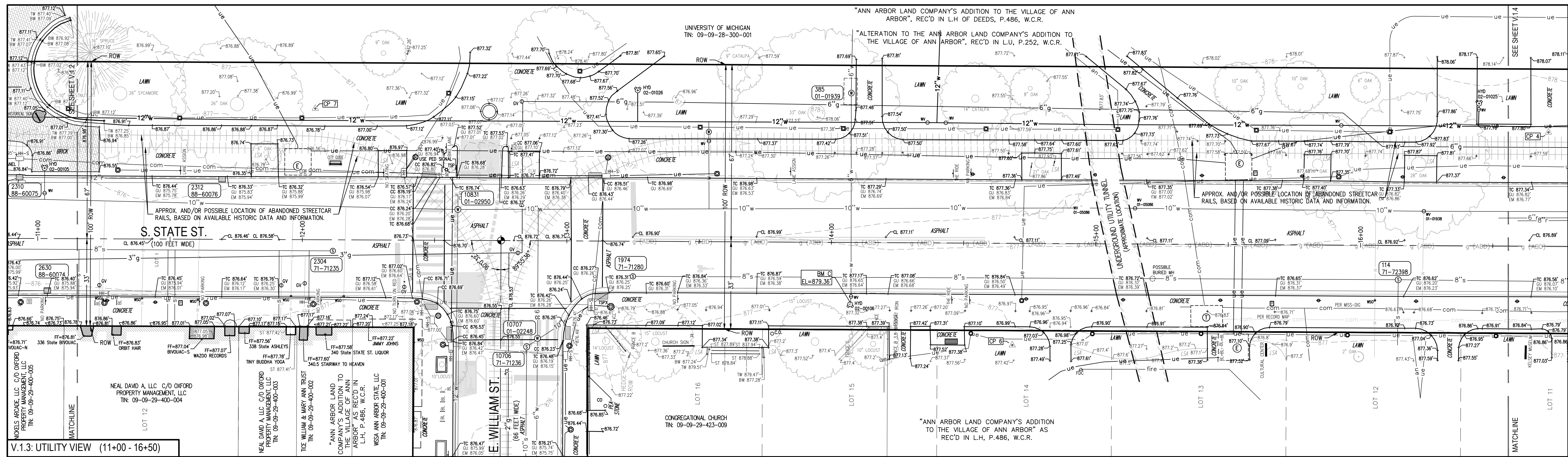
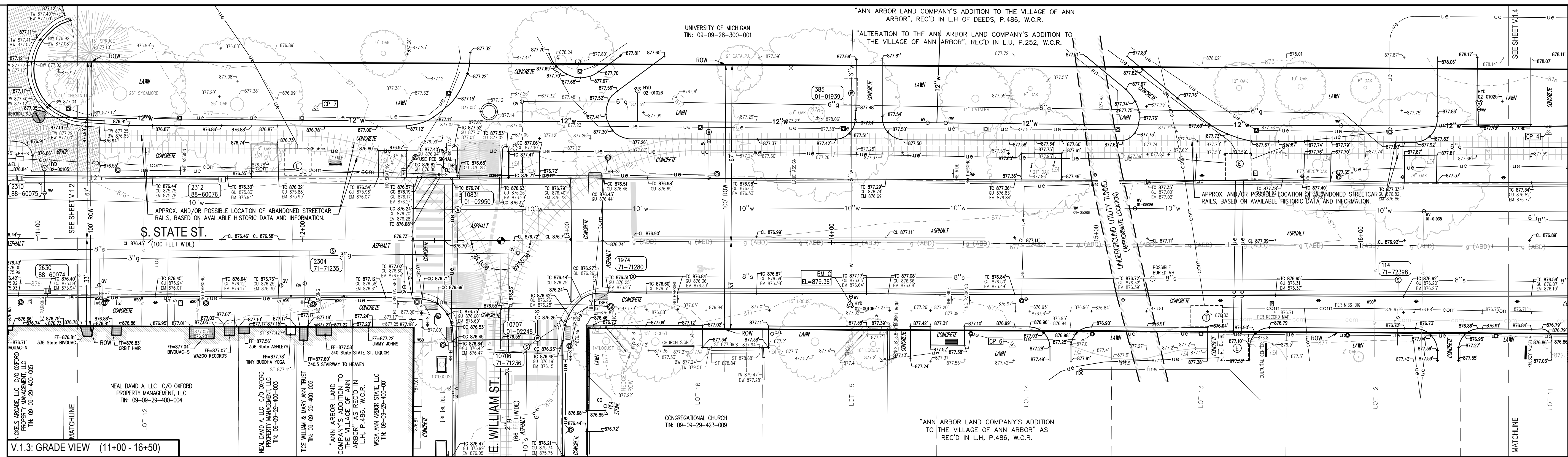


STATE ST STREETScape - CITY OF ANN ARBOR

TOPOGRAPHIC SURVEY 2
STATE STREET

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SHEET NO.	OF

SEE ABOVE					
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					CH.BY
					APPROVED BY

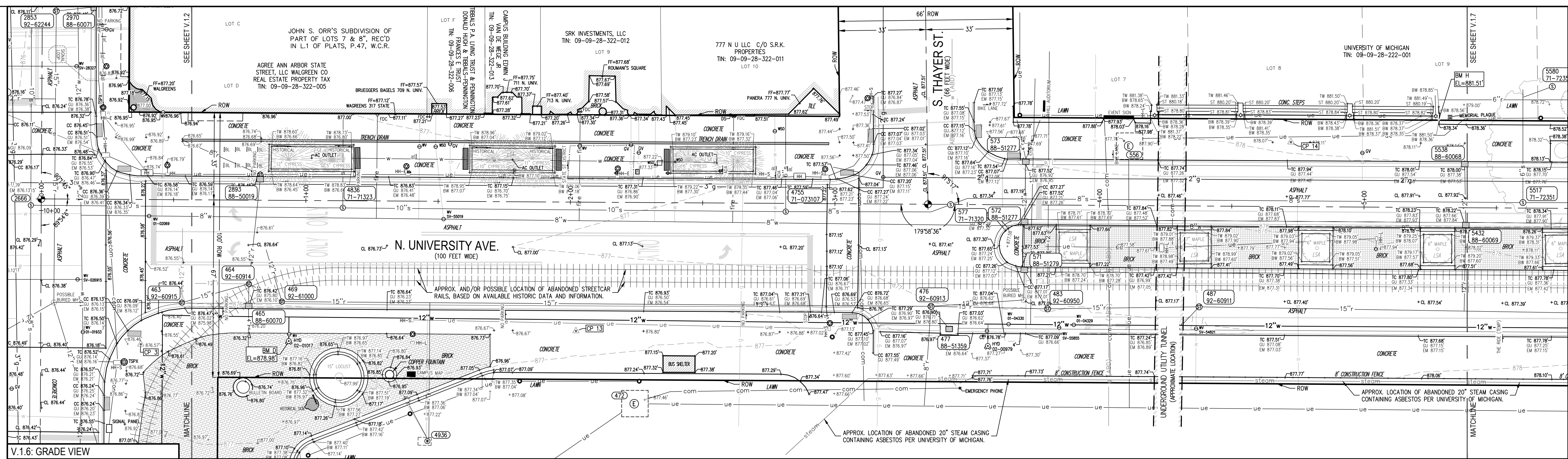


STATE ST STREETScape - CITY OF ANN ARBOR

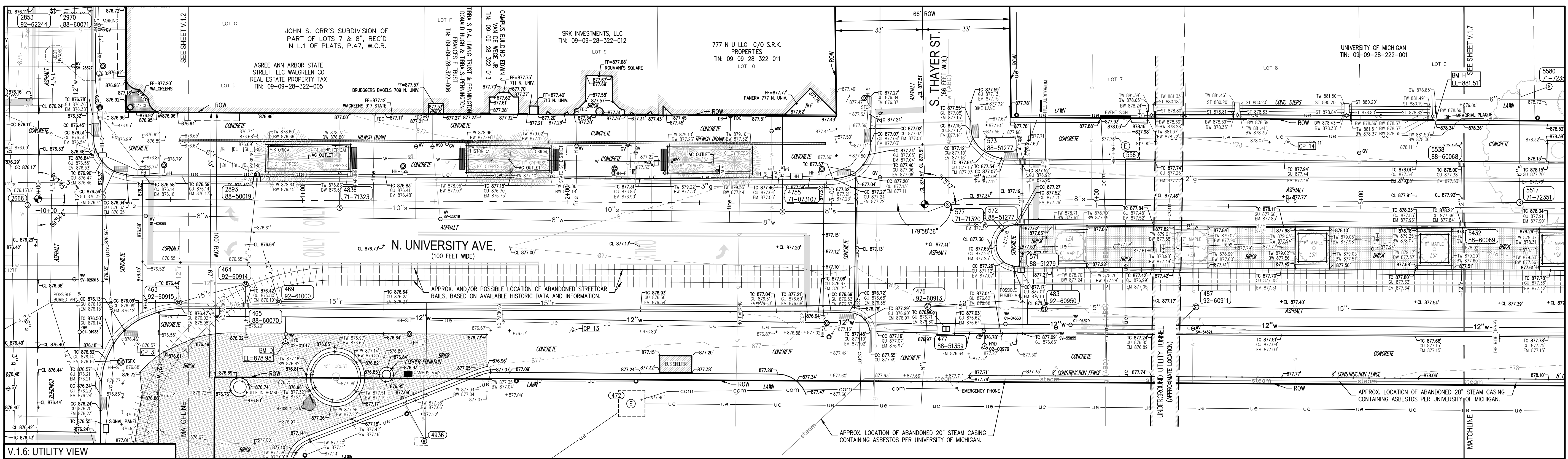
TOPOGRAPHIC SURVEY 3
STATE STREET

SCALE	INCH
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SHEET NO.	OF

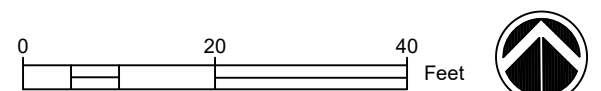
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			100% BID SET		02-18-2022			



V.1.6: GRADE VIEW



V.1.6: UTILITY VIEW



STATE ST STREETScape - CITY OF ANN ARBOR

TOPOGRAPHIC SURVEY 4
NORTH UNIVERSITY AVENUE

SCALE INCH

DRAWING NO.
V1.4

SHEET NO. OF

SEE ABOVE
BENCH MARK

SURVEY BOOK

100% BID SET

REV. NO.

DESCRIPTION

DATE

DR.BY

CH.BY

APPROVED BY

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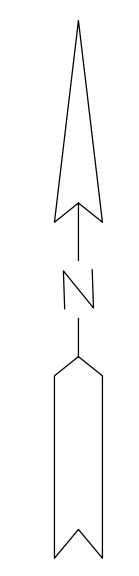
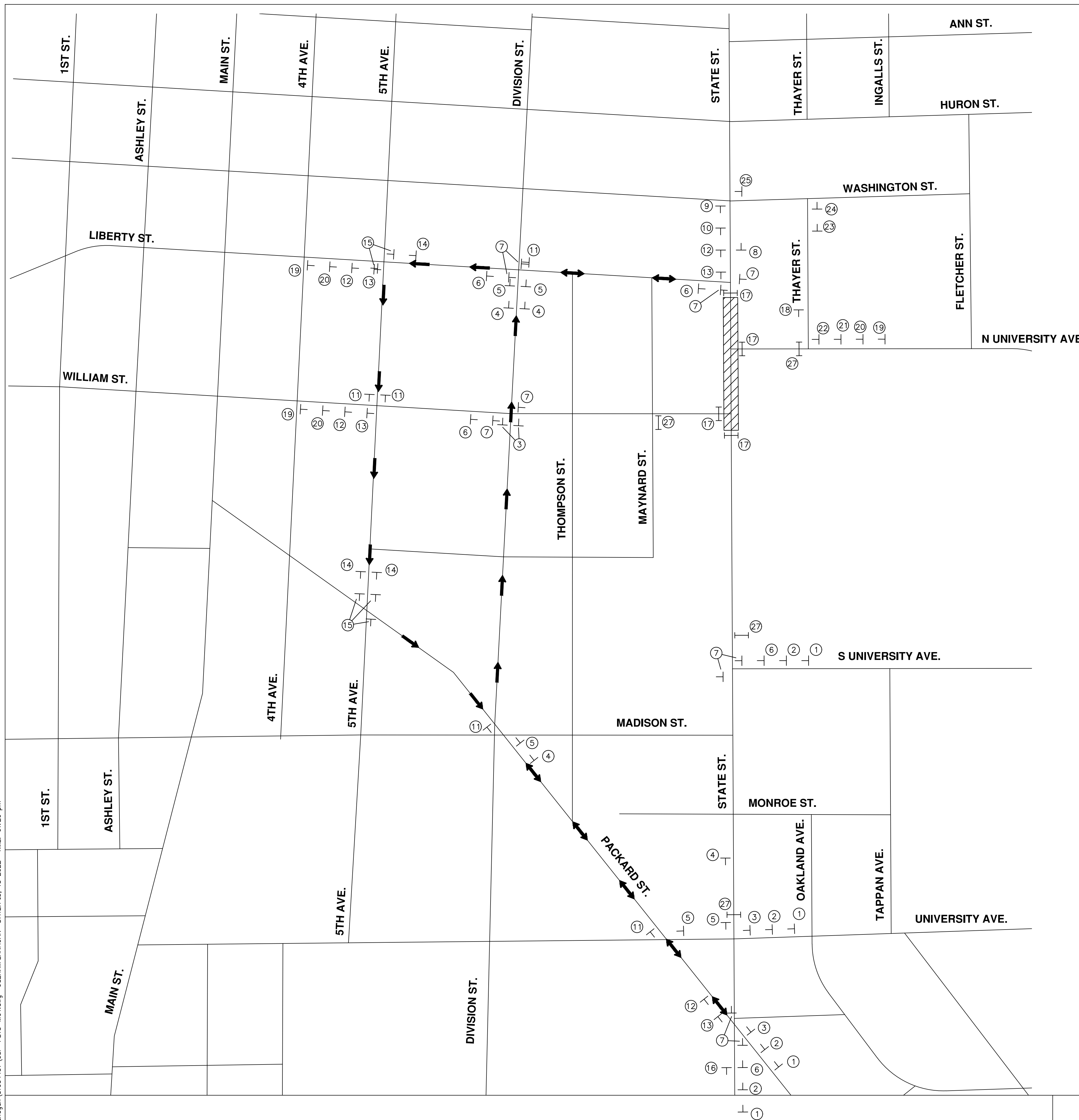
- NOTE:
1. CONTRACTOR PROTECT OPEN CUT AREAS WITH A STEEL PLATE AT THE END OF EACH WORK DAY.
 2. TO BE USED WITH THE CORRESPONDING PEDESTRIAN PLAN.
 3. ONE SOUTHBOUND LANE WILL BE MAINTAINED FOR EMERGENCY VEHICLES. USING CHANNELIZING DEVICES AT A 25' SPACING.
 4. SEE MAINTENANCE OF TRAFFIC LEGEND SHEET FOR SIGNAGE DETAILS.
 5. SIGNAL TIMING AND PHASING MODIFICATIONS ARE ANTICIPATED FOR CONSTRUCTION. MODIFICATIONS MAY ALSO BE REQUIRED AT ADJACENT INTERSECTION. CONTRACTOR SHALL COORDINATE WORK WITH CITY.
 6. CONSTRUCTION, WARNING, REGULATORY, AND GUIDE SIGNS SHOWN MUST BE PLACED ACCORDING TO MDOT'S WORK ZONE SAFETY AND MOBILITY MANUAL AND MAY REQUIRE FIELD ADJUSTMENTS AS DIRECTED BY THE ENGINEER.
 7. WHEN THE ROAD IS CLOSED, TYPE III BARRICADES WILL BE PLACED FROM FACE OF CURB TO FACE OF CURB TO COMPLETELY BLOCK TRAFFIC FROM ENTERING THE ROAD.
 8. RESTRICT PARKING FOR 50' SOUTH OF WILLIAM ON STATE ST TO ALLOW SPACE FOR VEHICLES TO TURN AROUND SHOULD THEY MISS THE DETOUR.

LEGEND

- T TEMPORARY TRAFFIC SIGN
- |— BARRICADE, TYPE III, HIGH INTENSITY
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- ▨ WORK ZONE
- ➔ TRAFFIC FLOW

STATE ST STREETScape - CITY OF ANN ARBOR						
MAINTENANCE OF TRAFFIC STAGE 1A					SCALE	INCH
					DRAWING NO. C3.1	
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BENCH MARK		REV. NO.	DESCRIPTION	DATE	DR.BY	CH.BY

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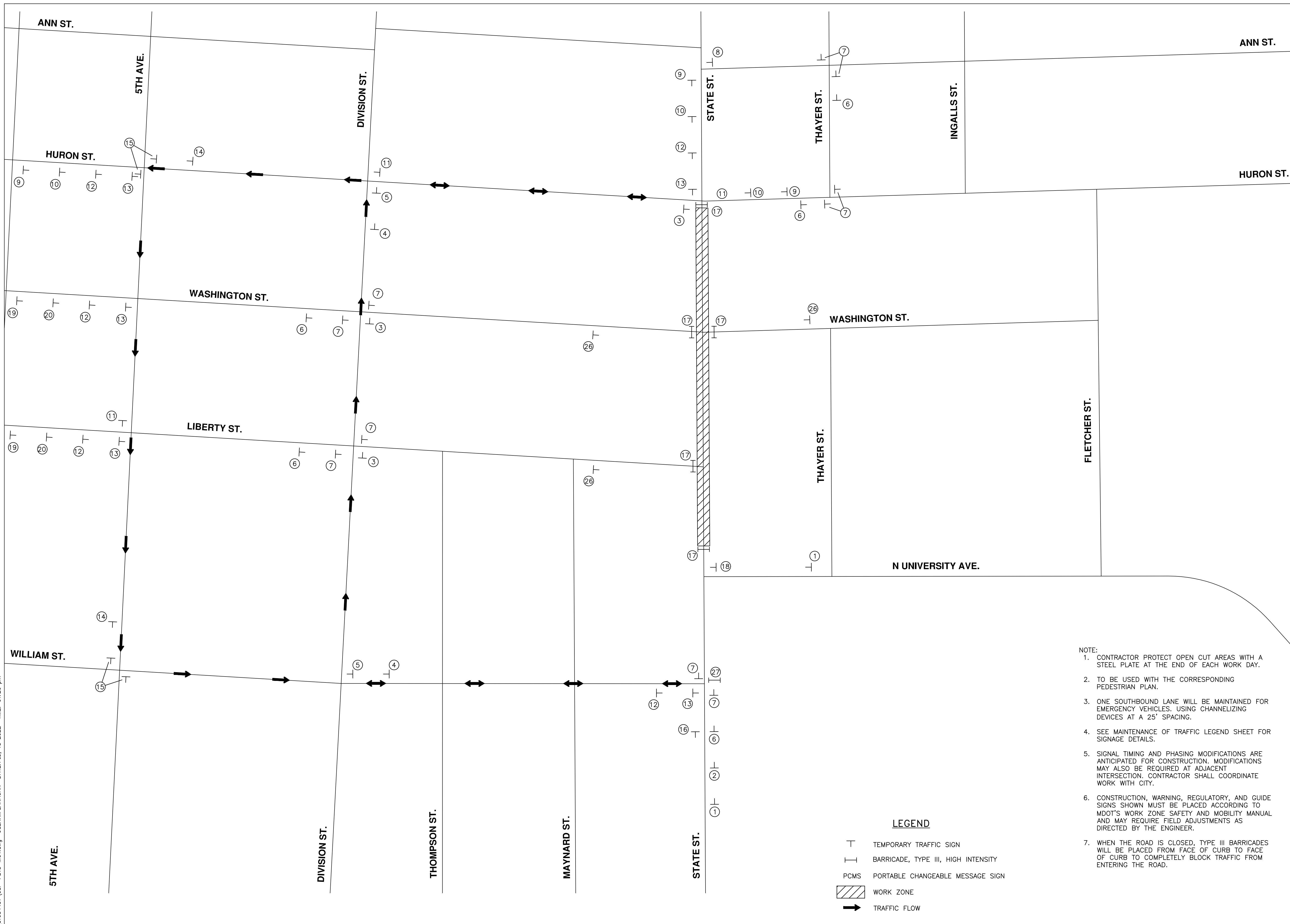
- NOTE:
1. CONTRACTOR PROTECT OPEN CUT AREAS WITH A STEEL PLATE AT THE END OF EACH WORK DAY.
 2. TO BE USED WITH THE CORRESPONDING PEDESTRIAN PLAN.
 3. ONE SOUTHBOUND LANE WILL BE MAINTAINED FOR EMERGENCY VEHICLES. USING CHANNELIZING DEVICES AT A 25' SPACING.
 4. SEE MAINTENANCE OF TRAFFIC LEGEND SHEET FOR SIGNAGE DETAILS.
 5. SIGNAL TIMING AND PHASING MODIFICATIONS ARE ANTICIPATED FOR CONSTRUCTION. MODIFICATIONS MAY ALSO BE REQUIRED AT ADJACENT INTERSECTION. CONTRACTOR SHALL COORDINATE WORK WITH CITY.
 6. CONSTRUCTION, WARNING, REGULATORY, AND GUIDE SIGNS SHOWN MUST BE PLACED ACCORDING TO MDOT'S WORK ZONE SAFETY AND MOBILITY MANUAL AND MAY REQUIRE FIELD ADJUSTMENTS AS DIRECTED BY THE ENGINEER.
 7. WHEN THE ROAD IS CLOSED, TYPE III BARRICADES WILL BE PLACED FROM FACE OF CURB TO FACE OF CURB TO COMPLETELY BLOCK TRAFFIC FROM ENTERING THE ROAD.
 8. RESTRICT PARKING FOR 50' SOUTH OF WILLIAM ST ON STATE ST TO ALLOW SPACE FOR VEHICLES TO TURN AROUND SHOULD THEY MISS THE DETOUR.

LEGEND

- T TEMPORARY TRAFFIC SIGN
- BARRICADE, TYPE III, HIGH INTENSITY
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- ▨ WORK ZONE
- ➔ TRAFFIC FLOW

							STATE ST STREETScape - CITY OF ANN ARBOR	
							SCALE	INCH
							MAINTENANCE OF TRAFFIC STAGE 1B	
							DRAWING NO. C3.2	
							SHEET NO. ____ OF ____	
SEE ABOVE								
BENCH MARK	SURVEY BOOK	100% BID SET	02-18-2022					
REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY	APPROVED BY			

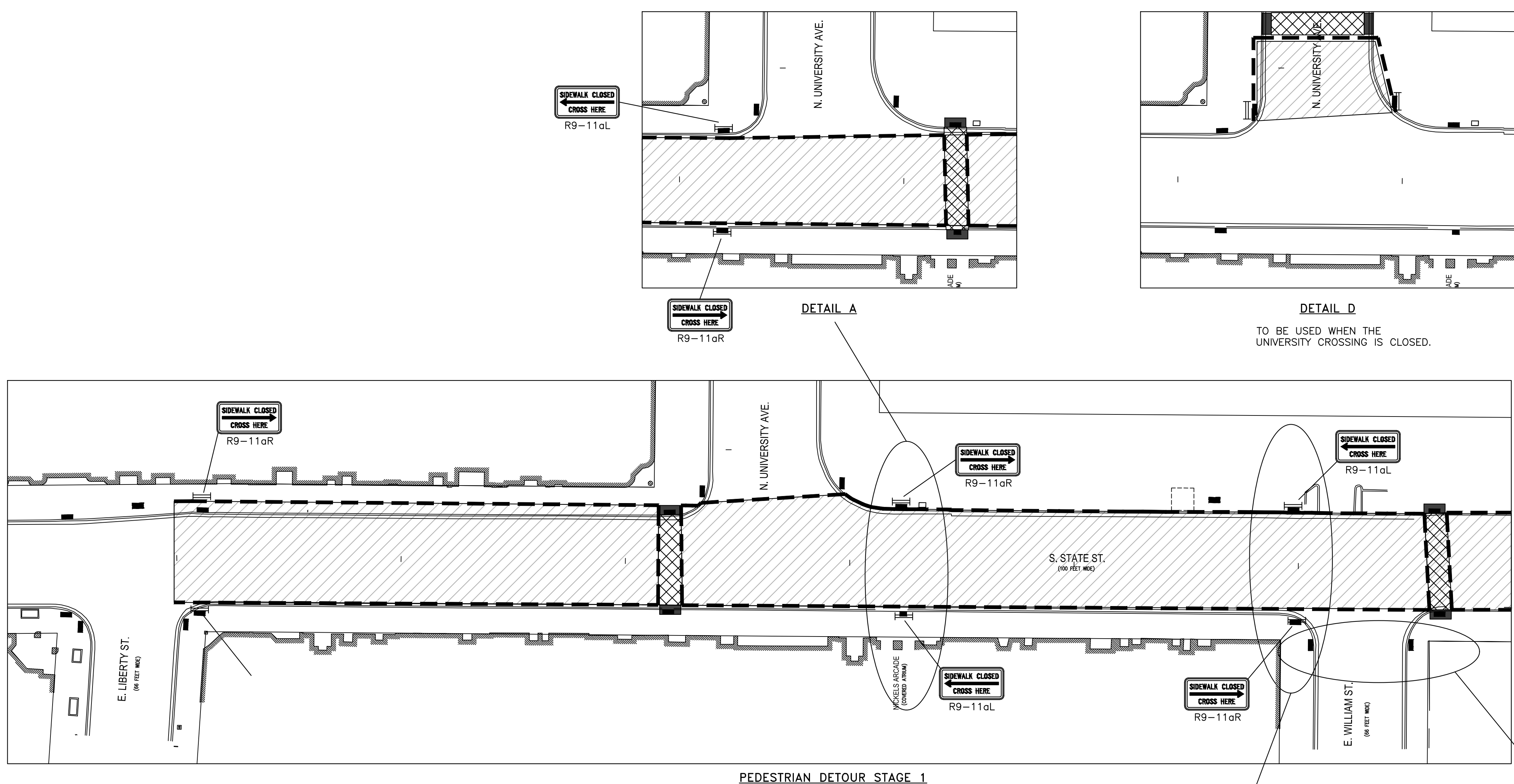
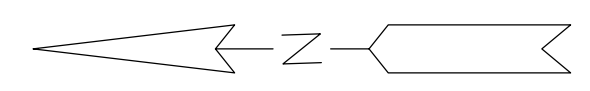
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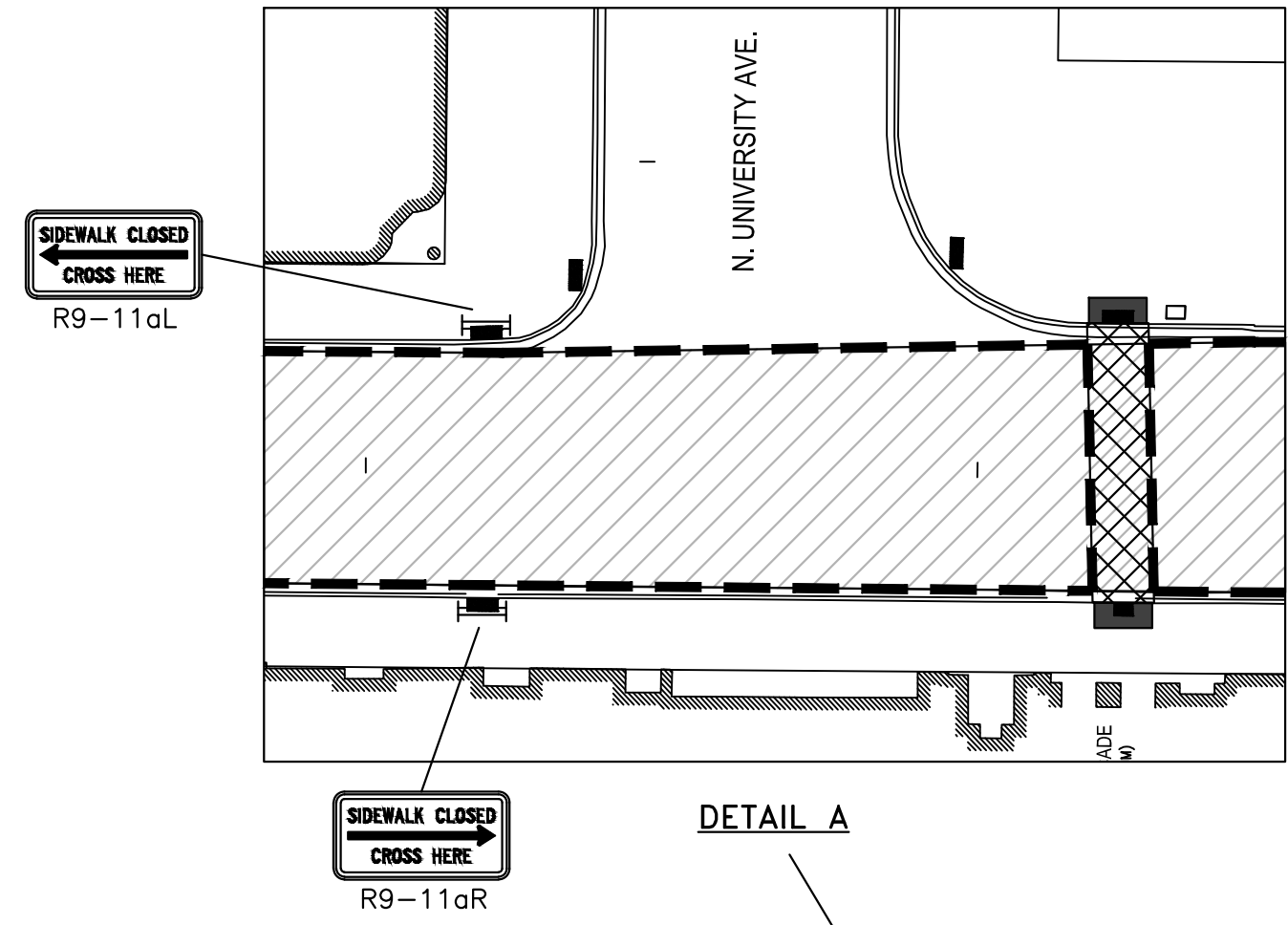
- NOTE:**
1. CONTRACTOR PROTECT OPEN CUT AREAS WITH A STEEL PLATE AT THE END OF EACH WORK DAY.
 2. TO BE USED WITH THE CORRESPONDING PEDESTRIAN PLAN.
 3. ONE SOUTHBOUND LANE WILL BE MAINTAINED FOR EMERGENCY VEHICLES. USING CHANNELIZING DEVICES AT A 25' SPACING.
 4. SEE MAINTENANCE OF TRAFFIC LEGEND SHEET FOR SIGNAGE DETAILS.
 5. SIGNAL TIMING AND PHASING MODIFICATIONS ARE ANTICIPATED FOR CONSTRUCTION. MODIFICATIONS MAY ALSO BE REQUIRED AT ADJACENT INTERSECTION. CONTRACTOR SHALL COORDINATE WORK WITH CITY.
 6. CONSTRUCTION, WARNING, REGULATORY, AND GUIDE SIGNS SHOWN MUST BE PLACED ACCORDING TO MDT'S WORK ZONE SAFETY AND MOBILITY MANUAL AND MAY REQUIRE FIELD ADJUSTMENTS AS DIRECTED BY THE ENGINEER.
 7. WHEN THE ROAD IS CLOSED, TYPE III BARRICADES WILL BE PLACED FROM FACE OF CURB TO FACE OF CURB TO COMPLETELY BLOCK TRAFFIC FROM ENTERING THE ROAD.

- LEGEND**
- T TEMPORARY TRAFFIC SIGN
 - I BARRICADE, TYPE III, HIGH INTENSITY
 - PCMS PORTABLE CHANGEABLE MESSAGE SIGN
 - [Hatched Box] WORK ZONE
 - [Arrow] TRAFFIC FLOW

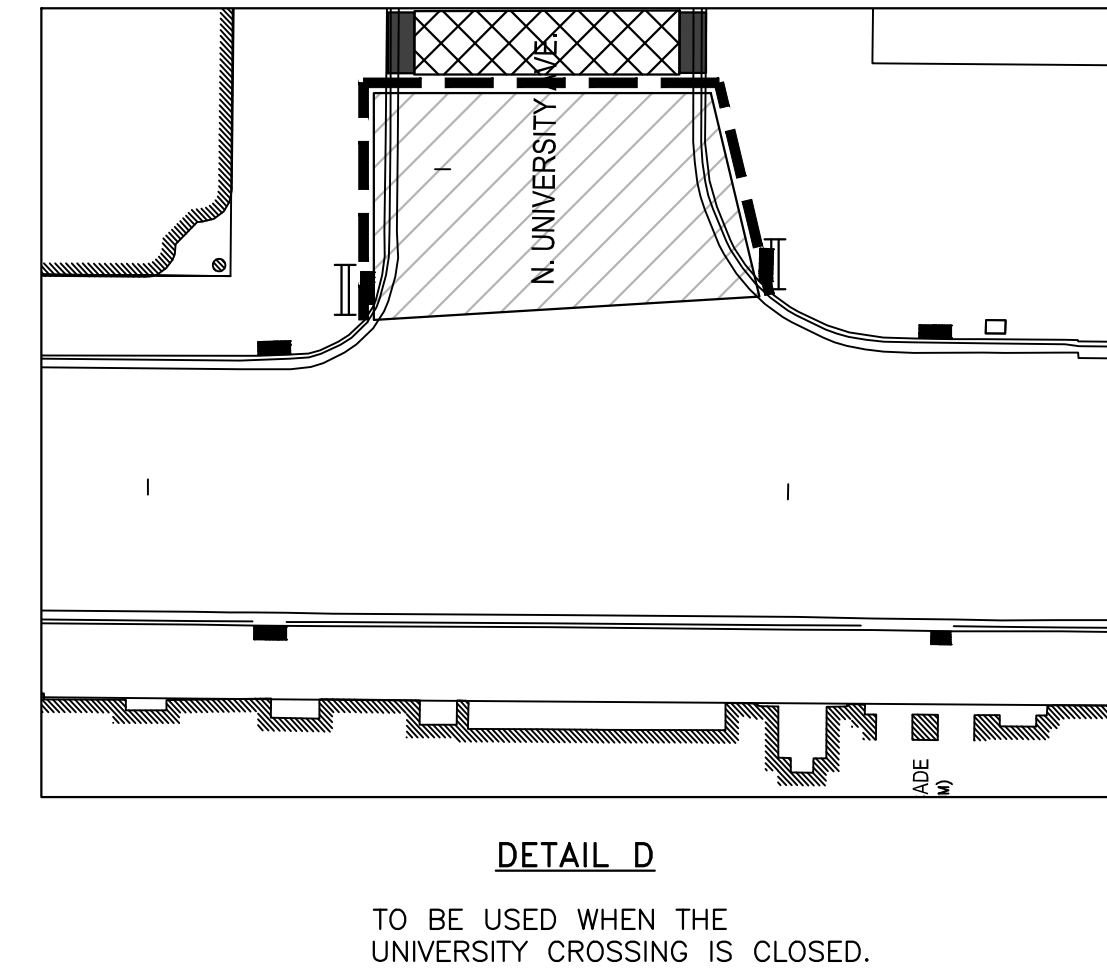
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							SHEET NO. ____ OF ____	
SEE ABOVE								
BENCH MARK	SURVEY BOOK	100% BID SET	02-18-2022					
REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY	APPROVED BY			



PEDESTRIAN DETOUR STAGE 1

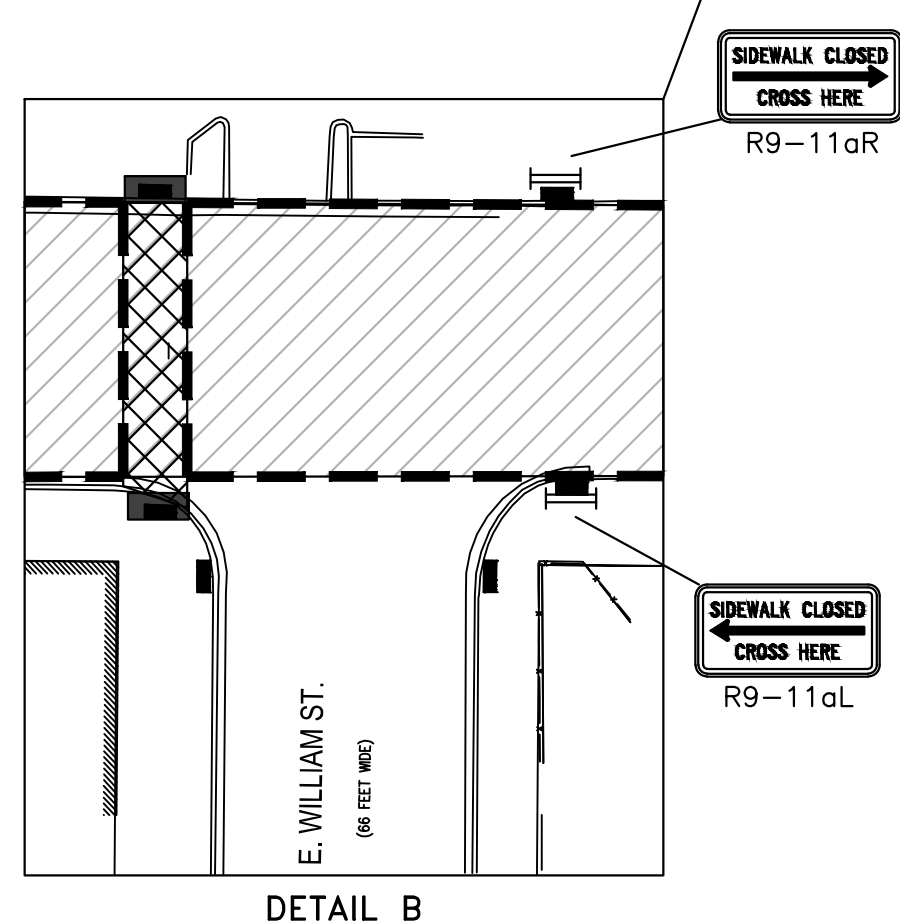


DETAIL A

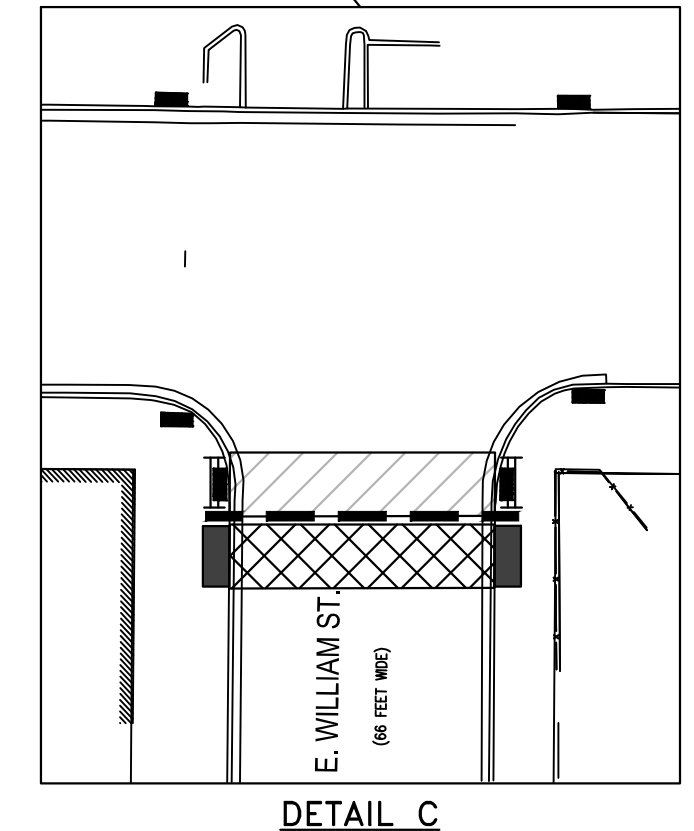


DETAIL D

TO BE USED WHEN THE UNIVERSITY CROSSING IS CLOSED.



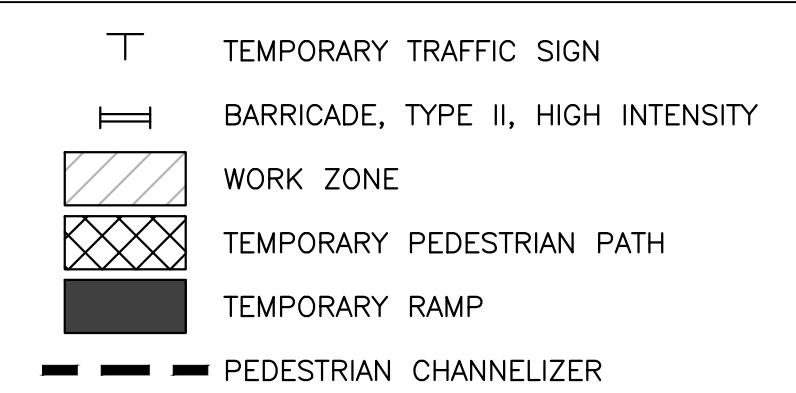
DETAIL B



DETAIL C

TO BE USED WHEN THE WILLIAM ST. CROSSING IS CLOSED.

- NOTE:
- CONTRACTOR PROTECT OPEN CUT AREAS WITH A STEEL PLATE AT THE END OF EACH WORK DAY.
 - PEDESTRIAN TRAFFIC SHALL BE DETOURED AND MAINTAINED IN ACCORDANCE WITH THIS PLAN SHEET AND THE CITY OF ANN ARBOR'S PEDESTRIAN MOT TYPICAL SET AS ATTACHED.
 - TO BE USED WITH THE CORRESPONDING VEHICLE DETOUR.



BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
SEE ABOVE			100% BID SET	02-18-2022		

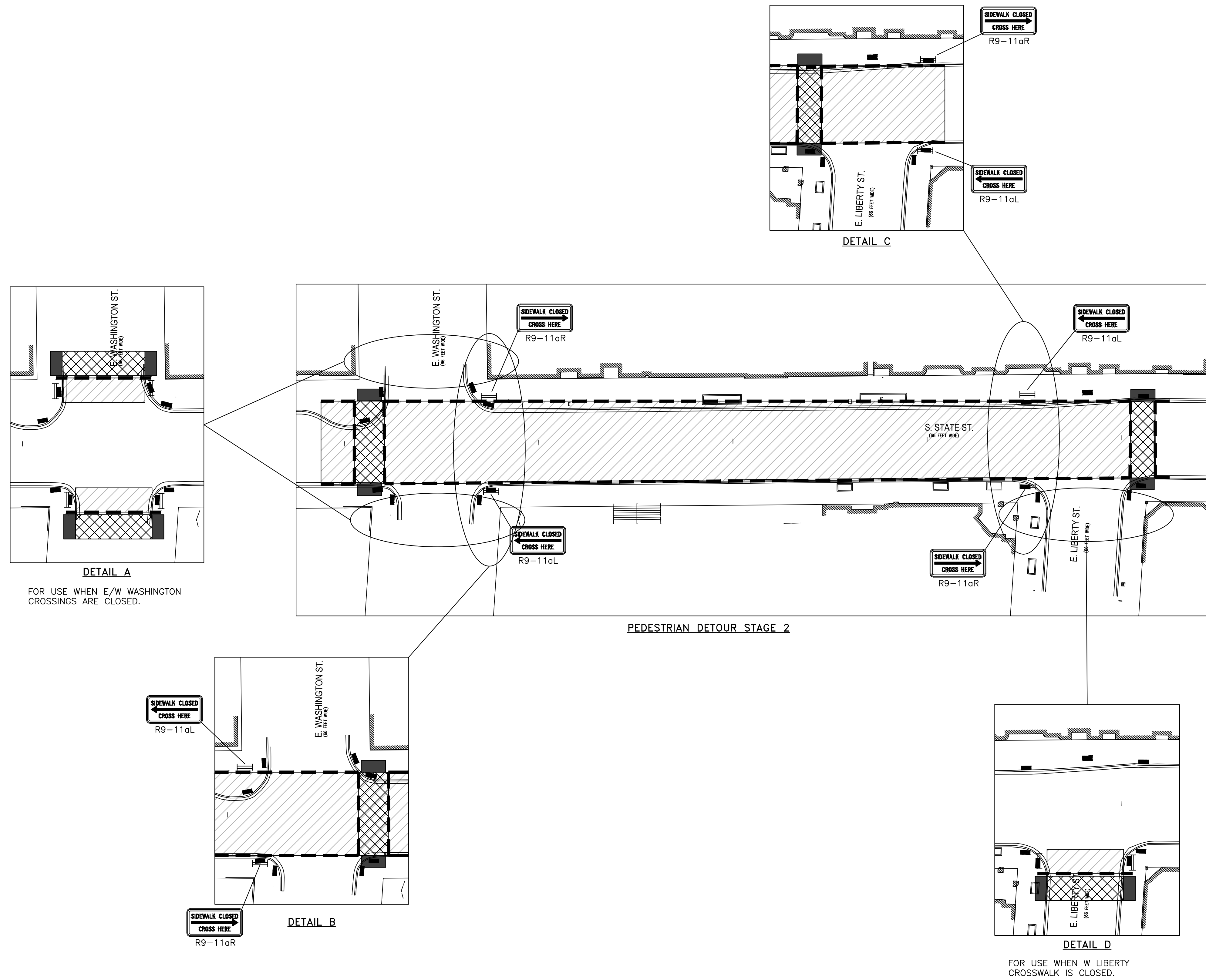
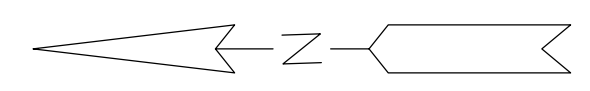
STATE ST STREETScape - CITY OF ANN ARBOR

**MAINTENANCE OF TRAFFIC
PEDESTRIAN DETOUR STAGE 1**

APPROVED BY: _____

SCALE	INCH
DRAWING NO.	C3.5
SHEET NO.	___ OF ___

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DETAIL A
FOR USE WHEN E/W WASHINGTON CROSSINGS ARE CLOSED.

DETAIL B

DETAIL C

DETAIL D
FOR USE WHEN W LIBERTY CROSSWALK IS CLOSED.

LEGEND

- T TEMPORARY TRAFFIC SIGN
- ▬ BARRICADE, TYPE II, HIGH INTENSITY
- ▨ WORK ZONE
- ▩ TEMPORARY PEDESTRIAN PATH
- TEMPORARY RAMP
- ▬ PEDESTRIAN CHANNELIZER

- NOTE:**
- CONTRACTOR PROTECT OPEN CUT AREAS WITH A STEEL PLATE AT THE END OF EACH WORK DAY.
 - PEDESTRIAN TRAFFIC SHALL BE DETOURED AND MAINTAINED IN ACCORDANCE WITH THIS PLAN SHEET AND THE CITY OF ANN ARBOR'S PEDESTRIAN MOT TYPICAL SET AS ATTACHED.
 - TO BE USED WITH THE CORRESPONDING VEHICLE DETOUR.

SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
				100% BID SET	02-18-2022		

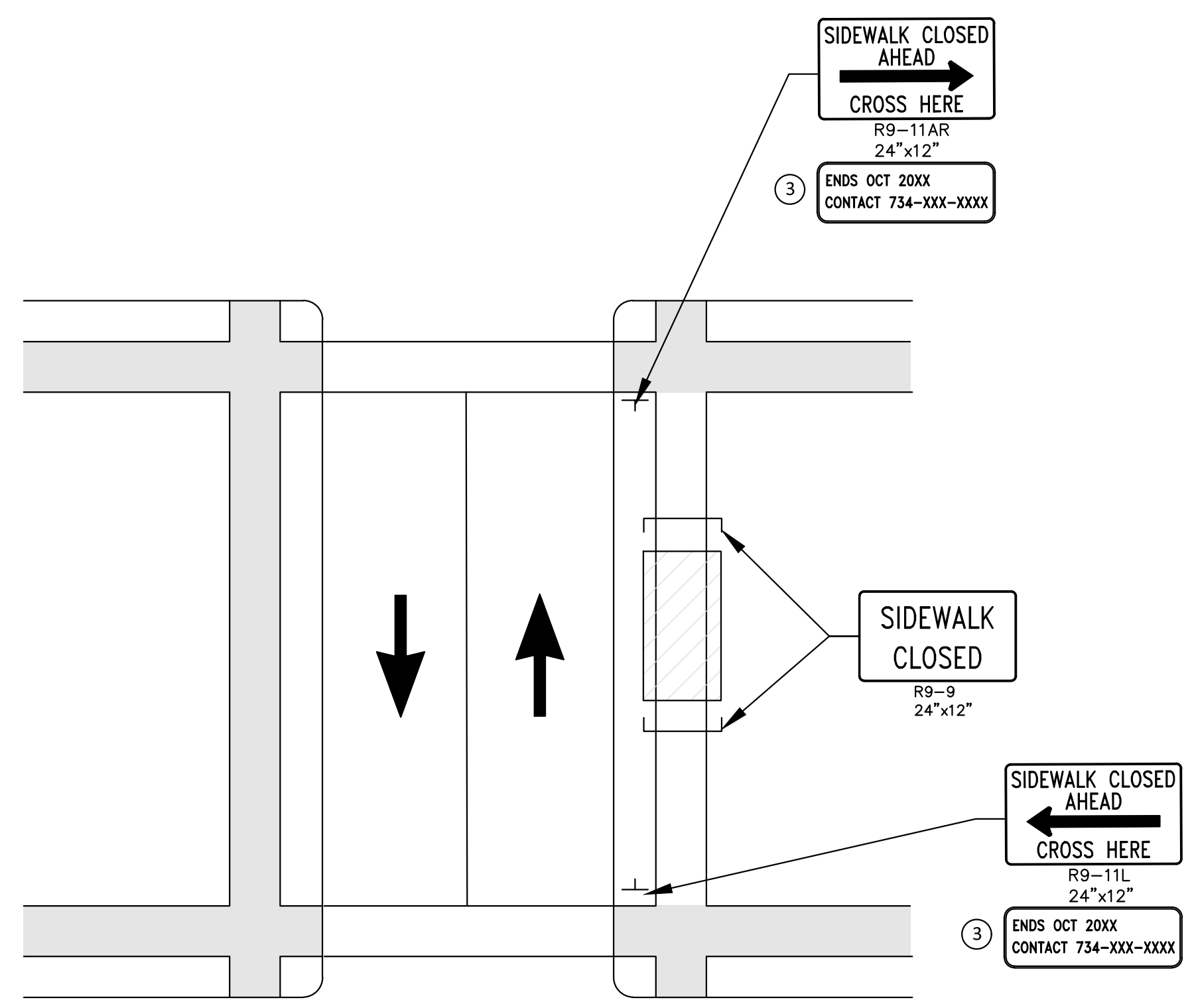
STATE ST STREETScape - CITY OF ANN ARBOR

**MAINTENANCE OF TRAFFIC
PEDESTRIAN DETOUR STAGE 2**

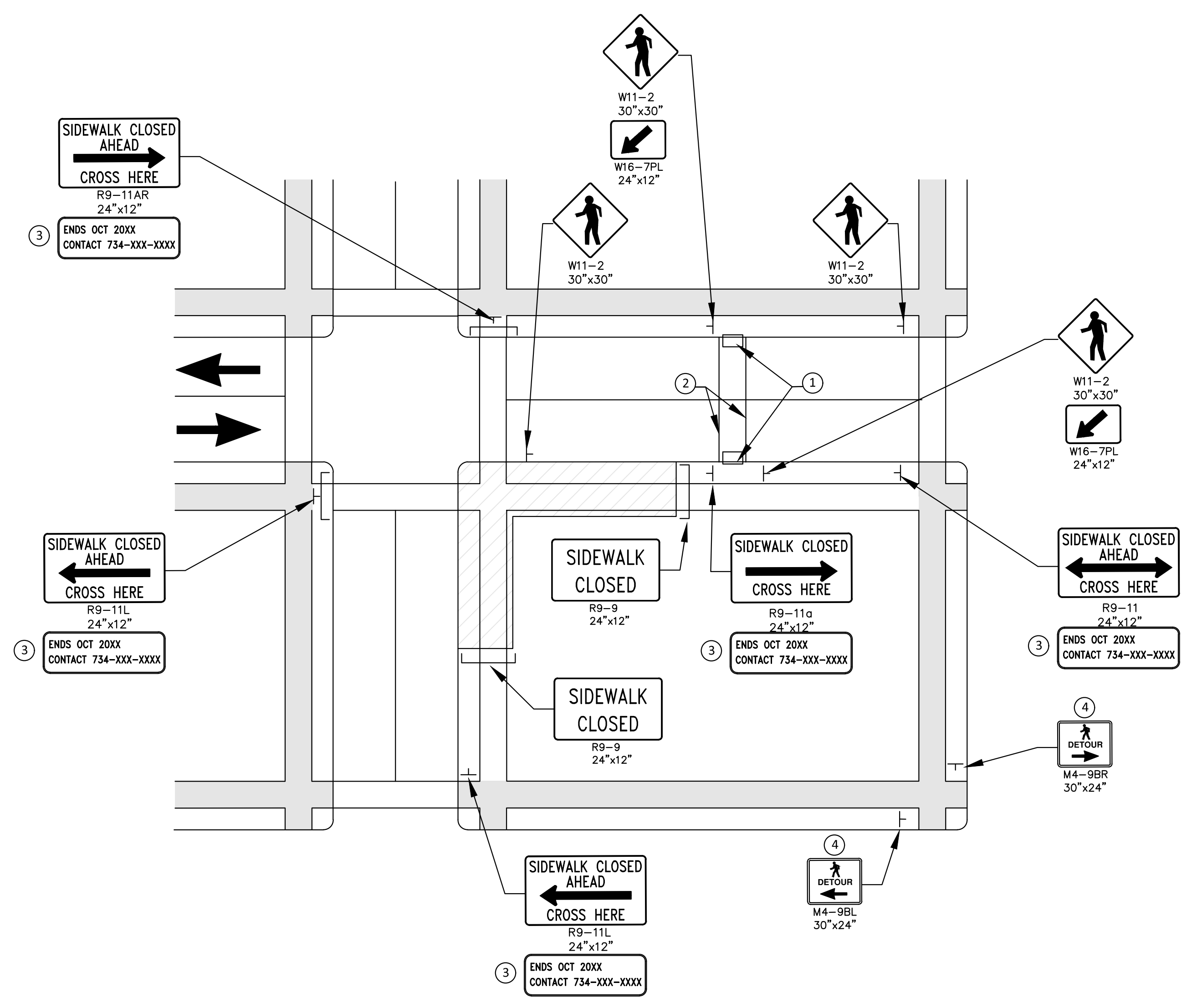
APPROVED BY: _____

SCALE	INCH
DRAWING NO.	C3.6
SHEET NO.	___ OF ___

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OTHER SIDE OF STREET DETOUR
(FOR MID-BLOCK CLOSURE)



OTHER SIDE OF STREET DETOUR OR DETOUR WITH TRAILBLAZING SIGNS
(FOR CORNER SIDEWALK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK)

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE AN ALTERNATE PEDESTRIAN ROUTE (APR) AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR. PROVIDE A FIRM, STABLE, AND SLIP RESISTANT TEMPORARY WALKWAY SURFACE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND.

THE PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

WHEN A SIGN OR BARRICADE IS ORIENTED SUCH THAT VISIBILITY TO TRAFFIC (BIKES, PEDESTRIANS) IS REDUCED ENOUGH TO CAUSE HAZARD, DELINEATE THE SIGN/BARRICADE WITH APPROPRIATE DEVICES.

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE:

1. PROVIDE THE APR ON THE SAME SIDE OF THE STREET AS THE DISRUPTED ROUTE UTILIZING BYPASSES.
2. WHERE IT IS NOT FEASIBLE TO PROVIDE A SAME SIDE APR, PROVIDE A DETOUR ON THE OTHER SIDE OF THE STREET.
3. WHERE IT IS NOT FEASIBLE TO PROVIDE AN APR ON THE OTHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS.

SPECIFIC NOTES

- 1 TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
- 2 TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.
- 3 TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHOULD INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.
- 4 PEDESTRIAN DETOUR TRAILBLAZING SIGNS SHOULD BE USED IF THE PEDESTRIAN DETOUR IS LOCATED SOMEPLACE OTHER THAN ACROSS THE STREET FROM THE SIDEWALK CLOSURE.

PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES

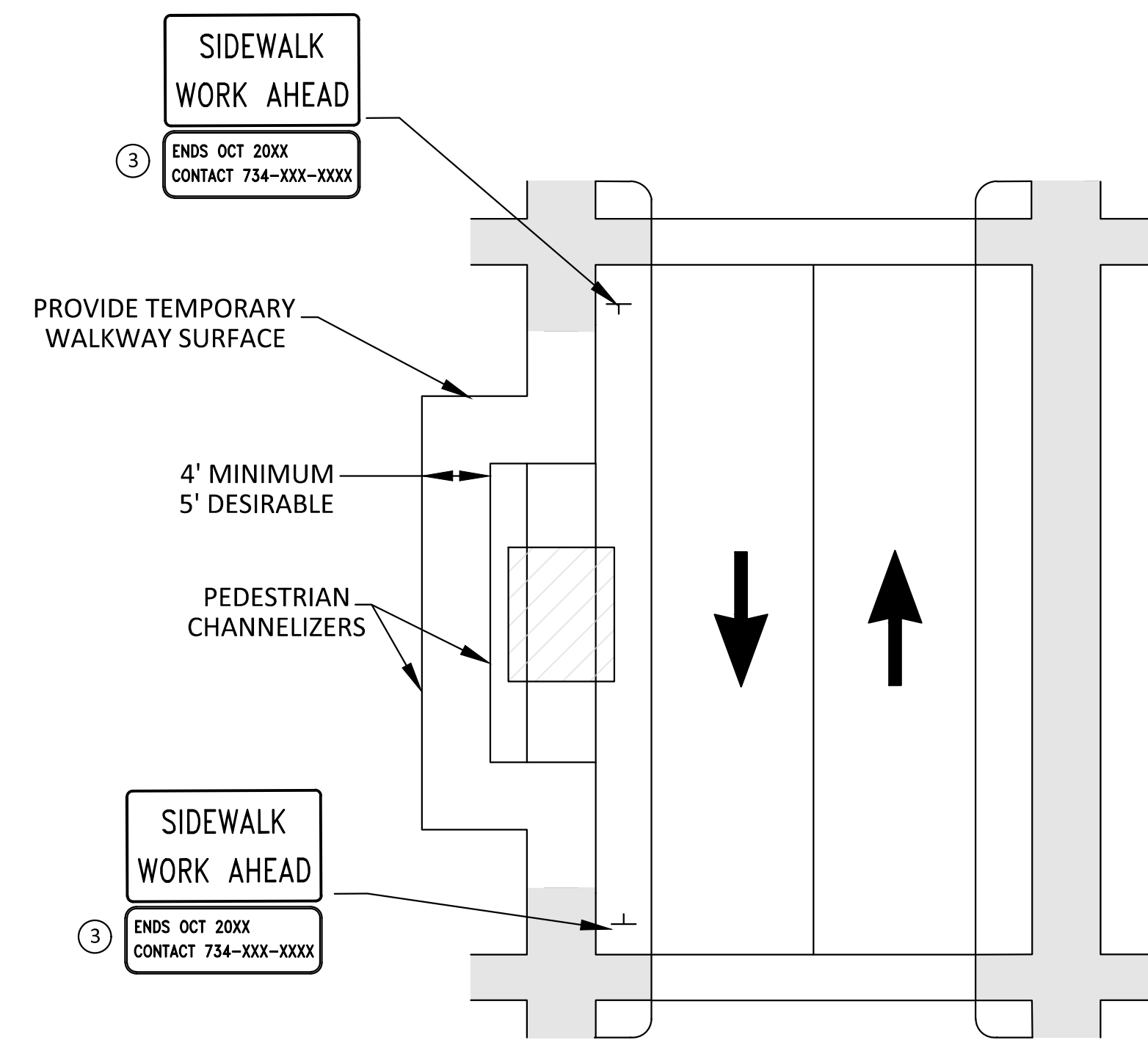
1. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MMUTCD, PART 6
2. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.
3. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHALL BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL BE MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.
4. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF NCHRP 350 AND THE MMUTCD SHALL BE USED.
5. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
6. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.
7. WHEN DIRECTED BY THE ENGINEER, OR STATED ON THE PLANS, THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL BY THE ENGINEER A MINIMUM OF THREE WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARS AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC. NO WORK SHALL BE ALLOWED TO BEGIN UNTIL THIS PLAN IS APPROVED BY THE ENGINEER IN WRITING.
8. PROVISION OF THE TPAR AND ALL OF ITS ELEMENTS, INCLUDING BUT NOT LIMITED TO, CREATION OF THE TEMPORARY PEDESTRIAN CONTROL PLANS, SIGNS CHANNELIZING DEVICES, BARRICADES, TEMPORARY PAVEMENT MARKINGS AND OTHER TRAFFIC CONTROL DEVICES SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "MINOR TRAF DEVICES."

LEGEND

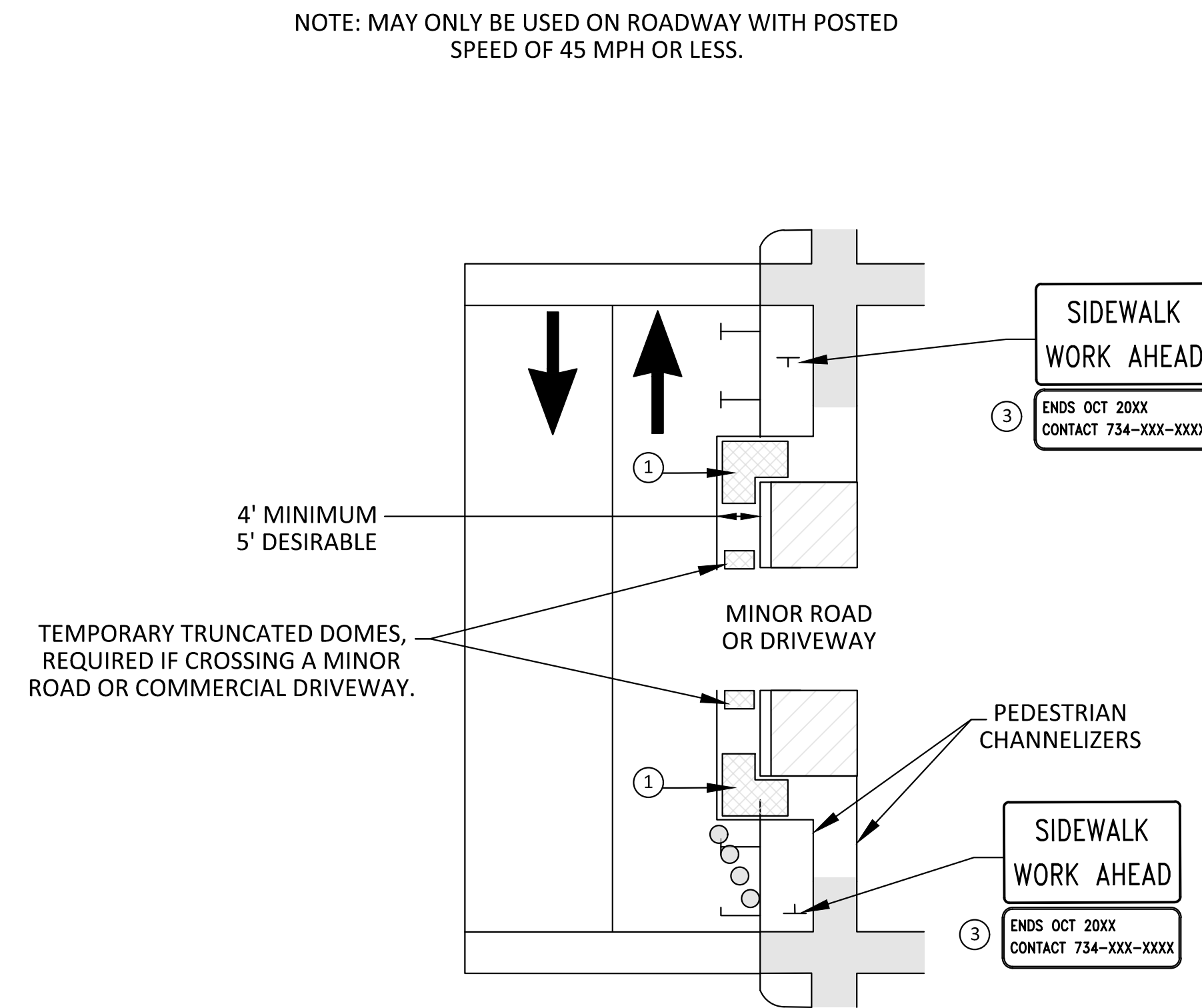
- SIGN
- ▨ EXISTING PEDESTRIAN SURFACE
- ▨ WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- ▨ BARRIER
- SIDEWALK BARRICADE
- ➔ DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DEVICE

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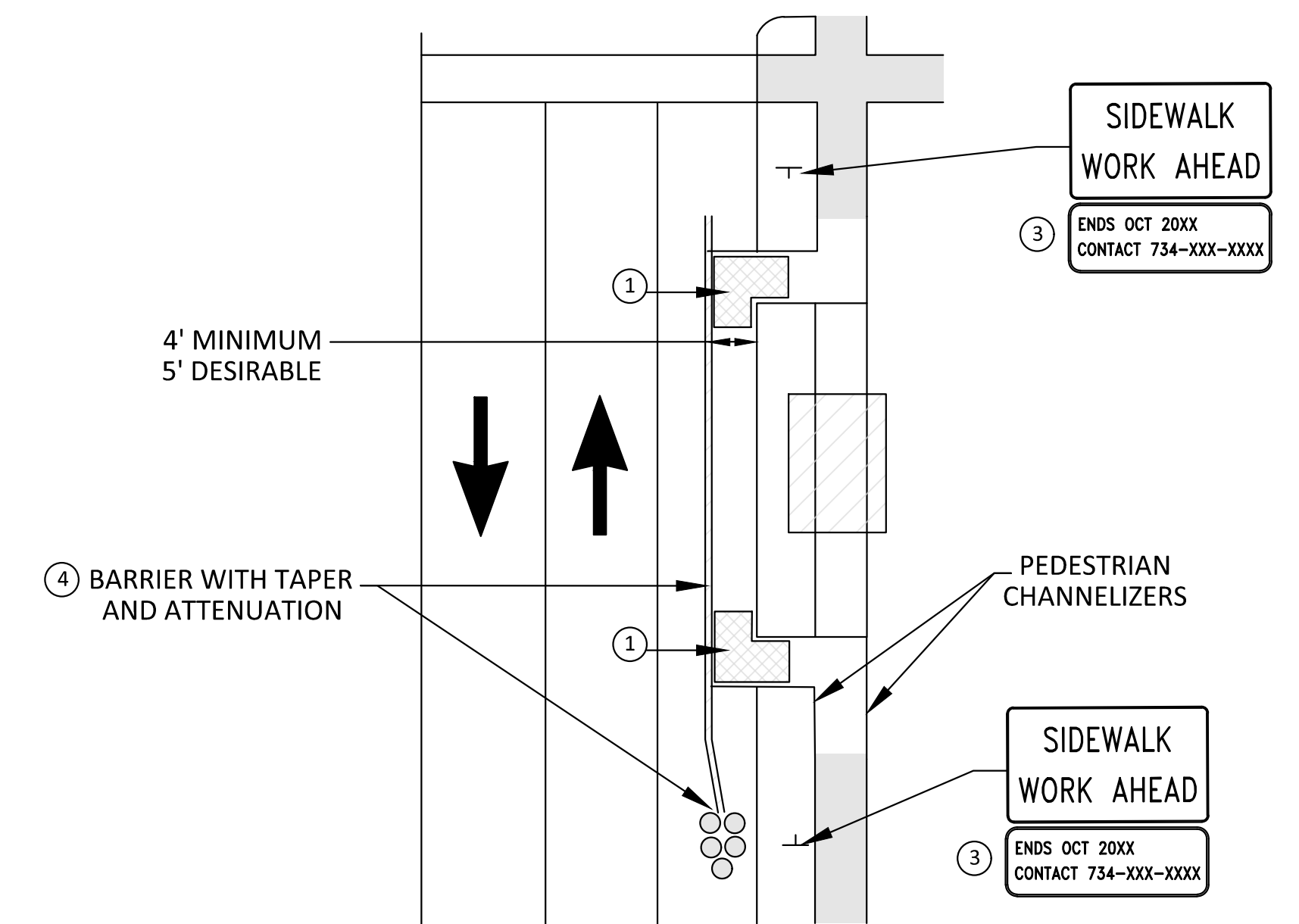
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SEE ABOVE							DRAWING NO.	C3.7
BENCH MARK	SURVEY BOOK	100% BID SET	02-18-2022	DR.BY	CH.BY	APPROVED BY	SHEET NO.	OF



**BYPASS ON ADJACENT AVAILABLE
RIGHT OF WAY**
BYPASS TYPE A



**SIDEWALK BYPASS USING PARKING OR
SHOULDER ON LOW SPEED ROADWAY**
BYPASS TYPE B



**SIDEWALK BYPASS USING
SHOULDER ON OR PARKING LANE
HIGH SPEED ROADWAY**
BYPASS TYPE C

SPECIFIC NOTES

- ① TEMPORARY CURB RAMPS WITH DETECTABLE WARNINGS.
- ② 5 DEVICE TAPER 25 FEET LONG, RECOMMENDED WHEN THE CLOSED AREA WAS USED AS AN INTERMITTENT TRAFFIC LANE OR BYPASS LANE. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.
- ③ TYPICAL SIGN MESSAGE FOR A TEMPORARY PEDESTRIAN DETOUR SHOULD INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24 / 7 QUESTIONS OR REPORTING HAZARDS.
- ④ SEE MMUTCD FOR GUIDANCE ON PLACEMENT AND USAGE OF BARRIER.

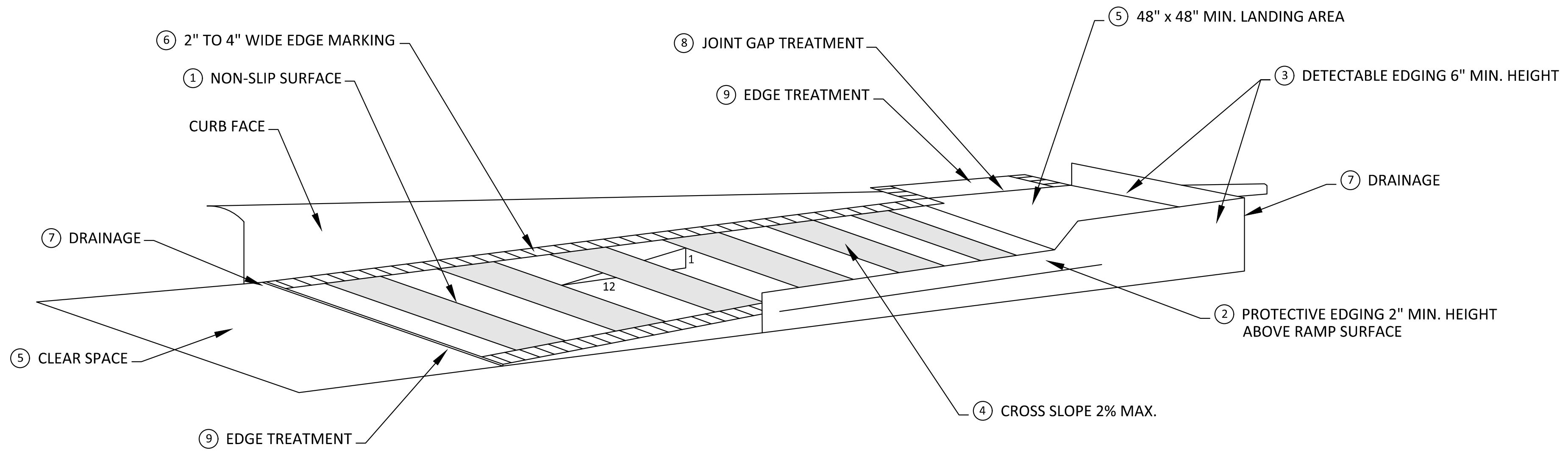
LEGEND

- SIGN
- ▨ EXISTING PEDESTRIAN SURFACE
- ▨ WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- BARRIER
- SIDEWALK BARRICADE
- ➔ DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DEVICE

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SEE ABOVE							SCALE	INCH
BENCH MARK	SURVEY BOOK	100% BID SET	02-18-2022				DRAWING NO. C3.8	
REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY	APPROVED BY		SHEET NO. ____ OF ____	

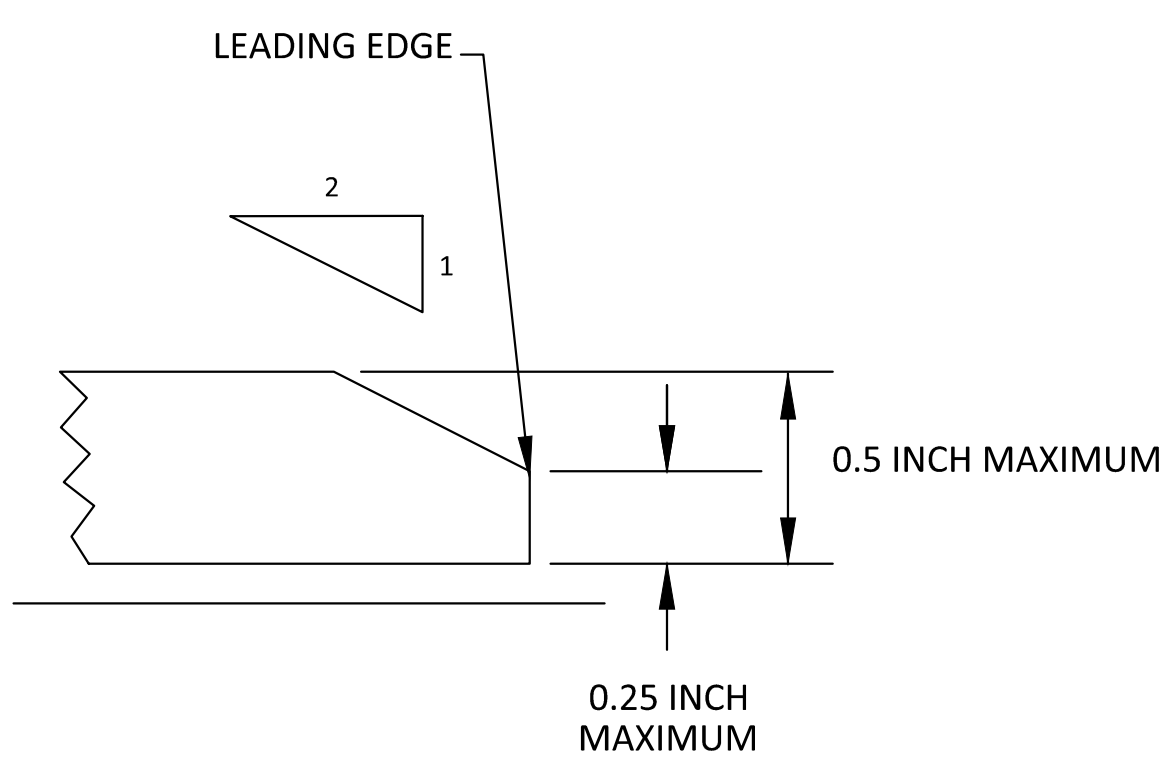
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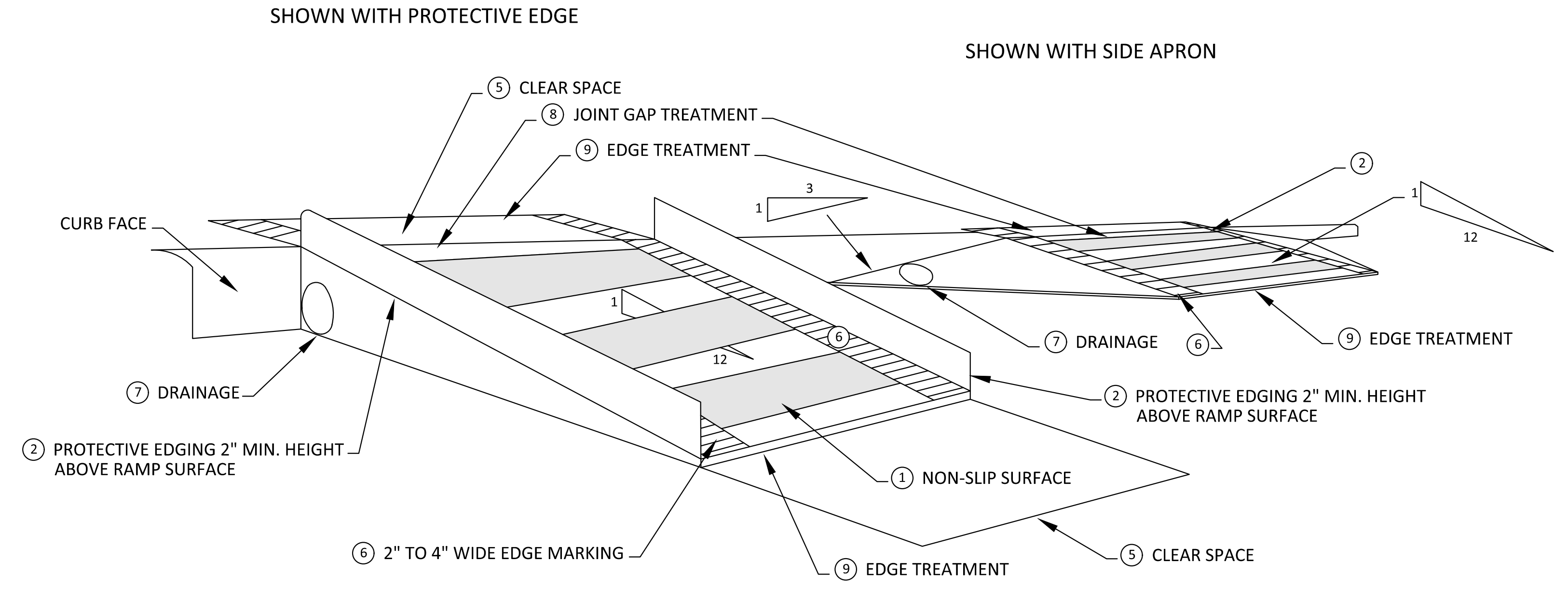
**TEMPORARY CURB RAMP
PARALLEL TO CURB**

SPECIFIC NOTES

- ① CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
- ② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE PLACED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3. PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- ③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE PLACED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- ④ CURB RAMPS AND LANDINGS SHALL HAVE A 2% MAX. CROSS SLOPE.
- ⑤ CLEAR SPACE OF 48" x 48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- ⑥ THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A CONTRASTING COLOR, 2" TO 4" WIDE MARKING. THE MARKING IS OPTIONAL WHERE COLOR CONTRASTING EDGING IS USED.
- ⑦ WATER FLOW IN THE GUTTER SYSTEM SHALL NOT BE IMPEDED.
- ⑧ LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.
- ⑨ CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHOULD BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2" HEIGHT.

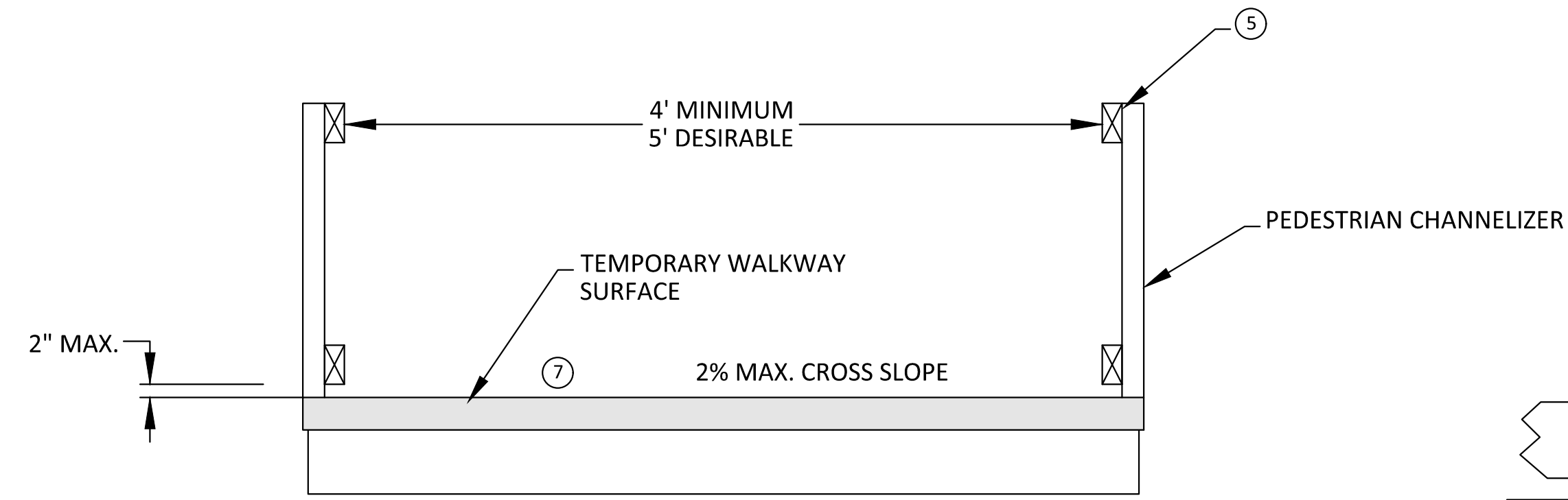


⑨ EDGE TREATMENT

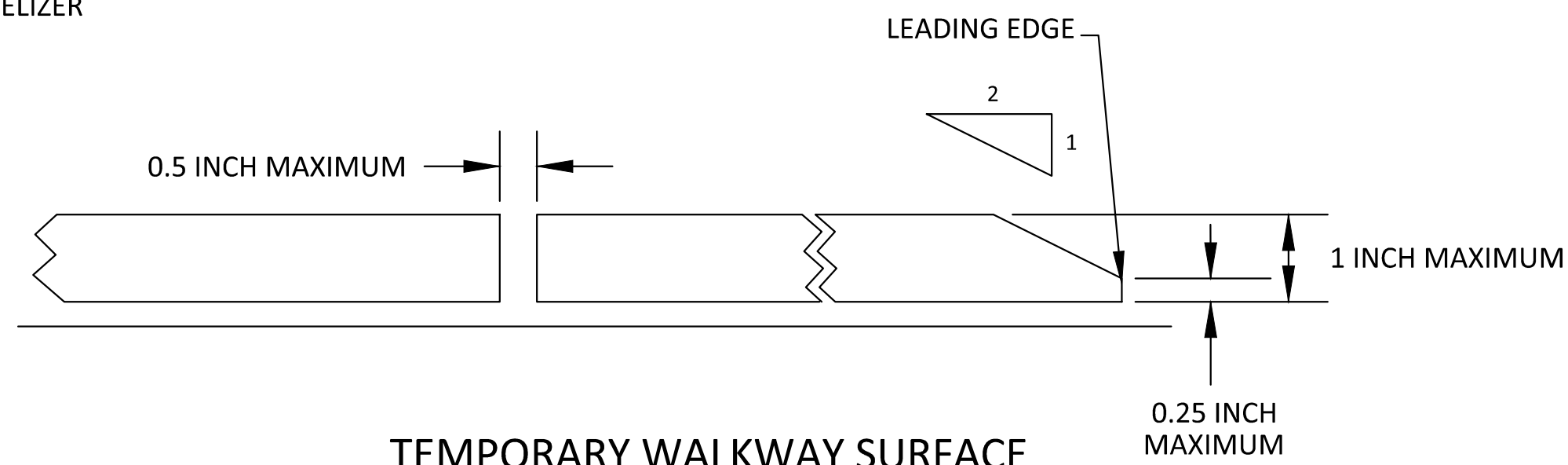


**TEMPORARY CURB RAMP
PERPENDICULAR TO CURB**

							STATE ST STREETScape - CITY OF ANN ARBOR	
							SCALE	INCH
							MAINTENANCE OF TRAFFIC CITY OF ANN ARBOR PEDESTRIAN TYPICAL DETAILS	
SEE ABOVE							DRAWING NO. C3.9	
BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY	SHEET NO. ____ OF ____	
			100% BID SET	02-18-2022			APPROVED BY: _____	



TEMPORARY PEDESTRIAN ACCESS



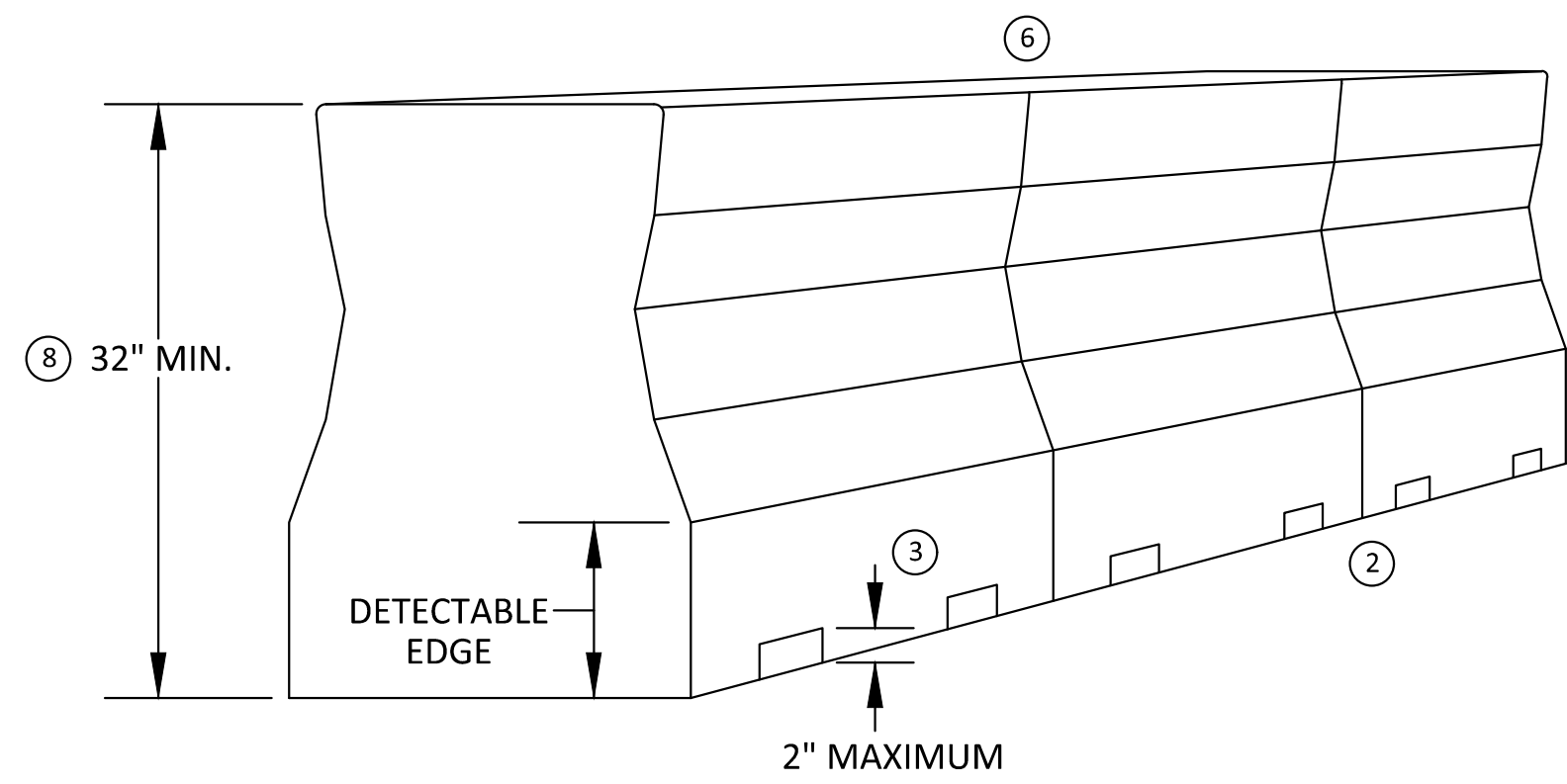
TEMPORARY WALKWAY SURFACE

GENERAL NOTES

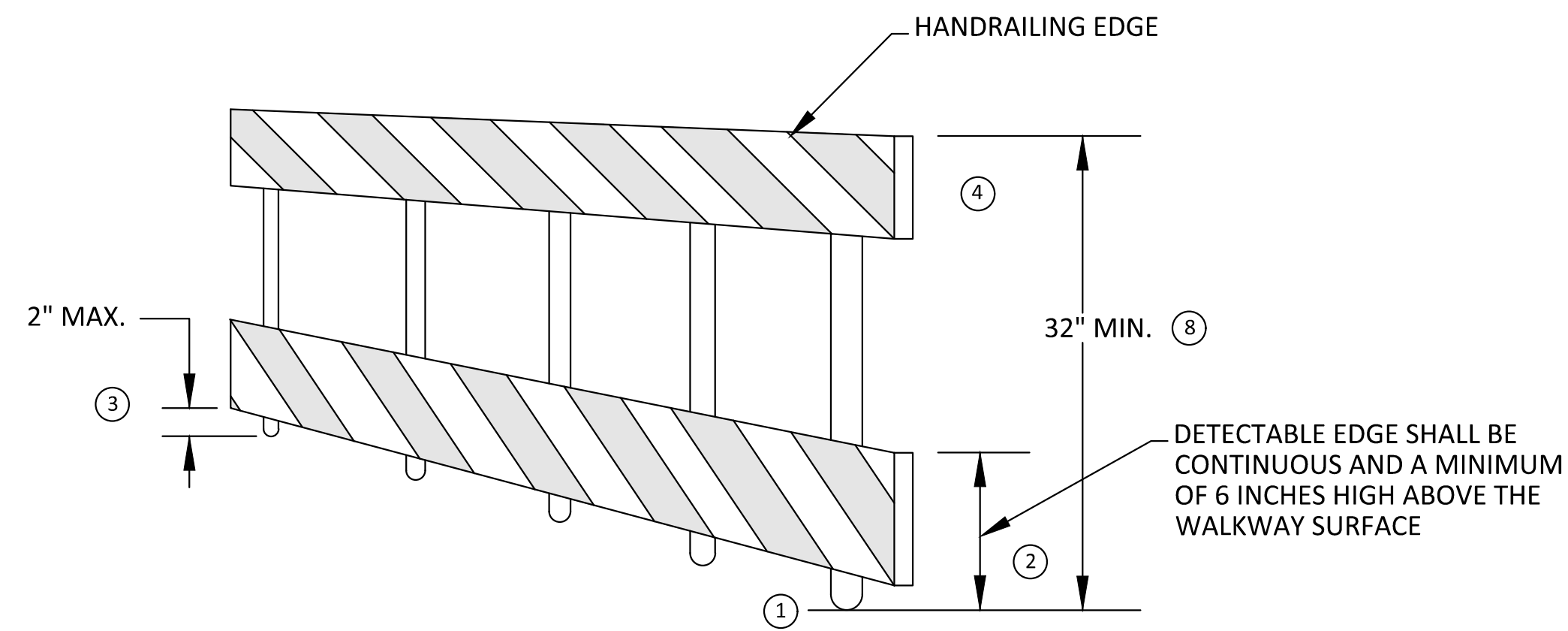
RAILINGS OR OTHER OBJECTS MAY PROTRUDE A MAXIMUM OF 4 INCHES INTO THE WALKWAY CLEAR SPACE WHEN LOCATED A MINIMUM OF 27 INCHES ABOVE THE WALKWAY SURFACE.
 ANY PEDESTRIAN DEVICES USED TO PROVIDE POSITIVE PROTECTION FOR PEDESTRIANS OR WORKERS SHALL MEET CRASHWORTHY REQUIREMENTS APPROPRIATE FOR THE BARRIERS APPLICATION.
 BARRICADES SHALL BE PLACED ACROSS THE ENTIRE WIDTH OF THE WALKWAY SURFACE.

SPECIFIC NOTES

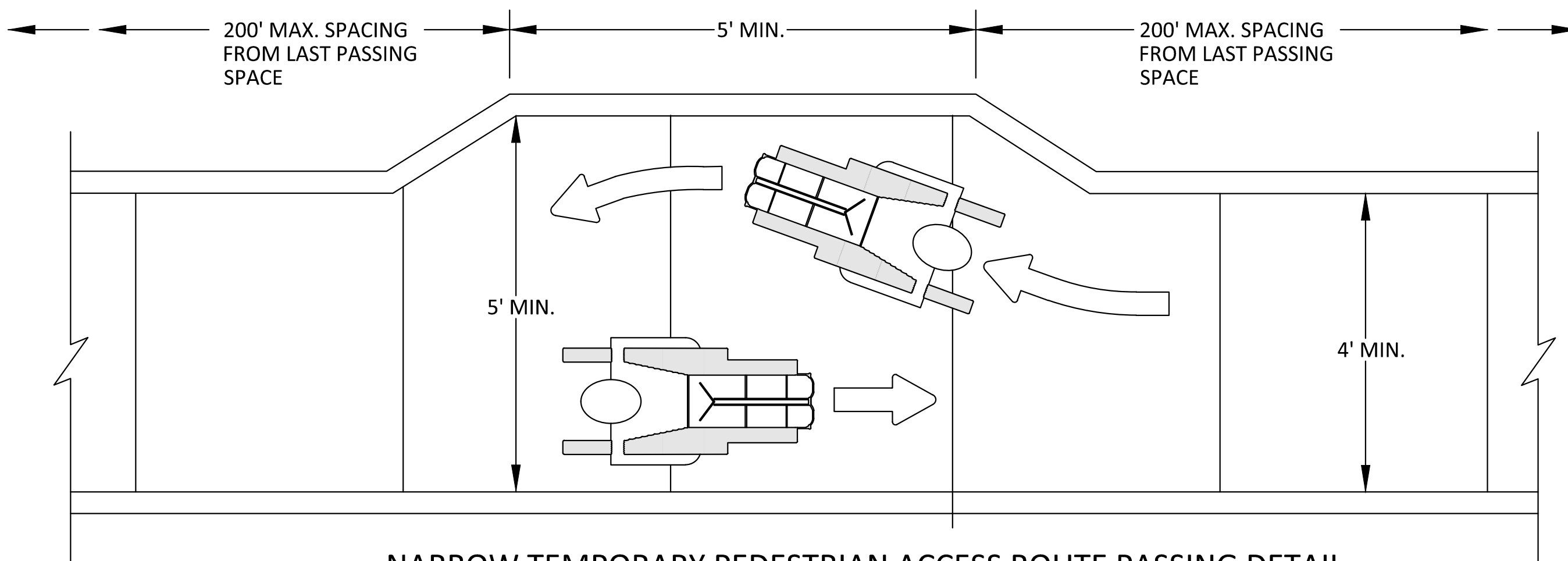
- 1 ANY TRIPPING HAZARD IN THE WALKWAY NEEDS A DETECTABLE EDGE. BALLAST SHALL BE LOCATED BEHIND OR INTERNAL TO THE DEVICE. ANY SUPPORT ON THE FRONT OF THE DEVICE SHALL NOT EXTEND INTO THE 48 INCH MINIMUM WALKWAY CLEAR SPACE AND SHALL NOT EXCEED 0.5 INCHES IN HEIGHT ABOVE THE WALKWAY SURFACE.
- 2 DETECTABLE EDGES SHALL BE CONTINUOUS AND 6 INCHES MIN. HIGH ABOVE WALKWAY SURFACE AND HAVE COLOR MARKINGS CONTRASTING WITH THE WALKWAY SURFACE.
- 3 DEVICES SHALL NOT BLOCK WATER DRAINAGE FROM THE WALKWAY. A GAP HEIGHT OR OPENING FROM THE WALKWAY SURFACE UP TO A MAXIMUM OF 2 INCHES IS ALLOWED FOR DRAINAGE PURPOSES.
- 4 WHEN HAND GUIDANCE IS REQUIRED, THE TOP RAIL OR TOP SURFACE SHALL:
 - BE IN A VERTICAL PLANE PERPENDICULAR TO THE WALKWAY ABOVE THE DETECTABLE EDGE.
 - BE CONTINUOUS AT A HEIGHT OF 34 TO 38 INCHES ABOVE THE WALKWAY SURFACE, AND
 - BE SUPPORTED WITH MINIMAL INTERFERENCE TO THE PEDESTRIAN'S HANDS OR FINGERS.
- 5 ALL DEVICES SHALL BE FREE OF SHARP OR ROUGH EDGES, AND FASTENERS (BOLTS) SHALL BE ROUNDED TO PREVENT HARM TO HANDS, ARMS OR CLOTHING OF PEDESTRIANS.
- 6 ALL DEVICES USED TO CHANNELIZE PEDESTRIAN FLOW SHOULD INTERLOCK SUCH THAT GAPS DO NOT ALLOW PEDESTRIANS TO STRAY FROM THE CHANNELIZED PATH.
- 7 A WALKWAY SURFACE SHALL BE FIRM, STABLE, AND SLIP RESISTANT.
- 8 LONGITUDINAL CHANNELIZING DEVICES FOR PEDESTRIANS SHALL BE 32 INCHES HIGH OR GREATER.



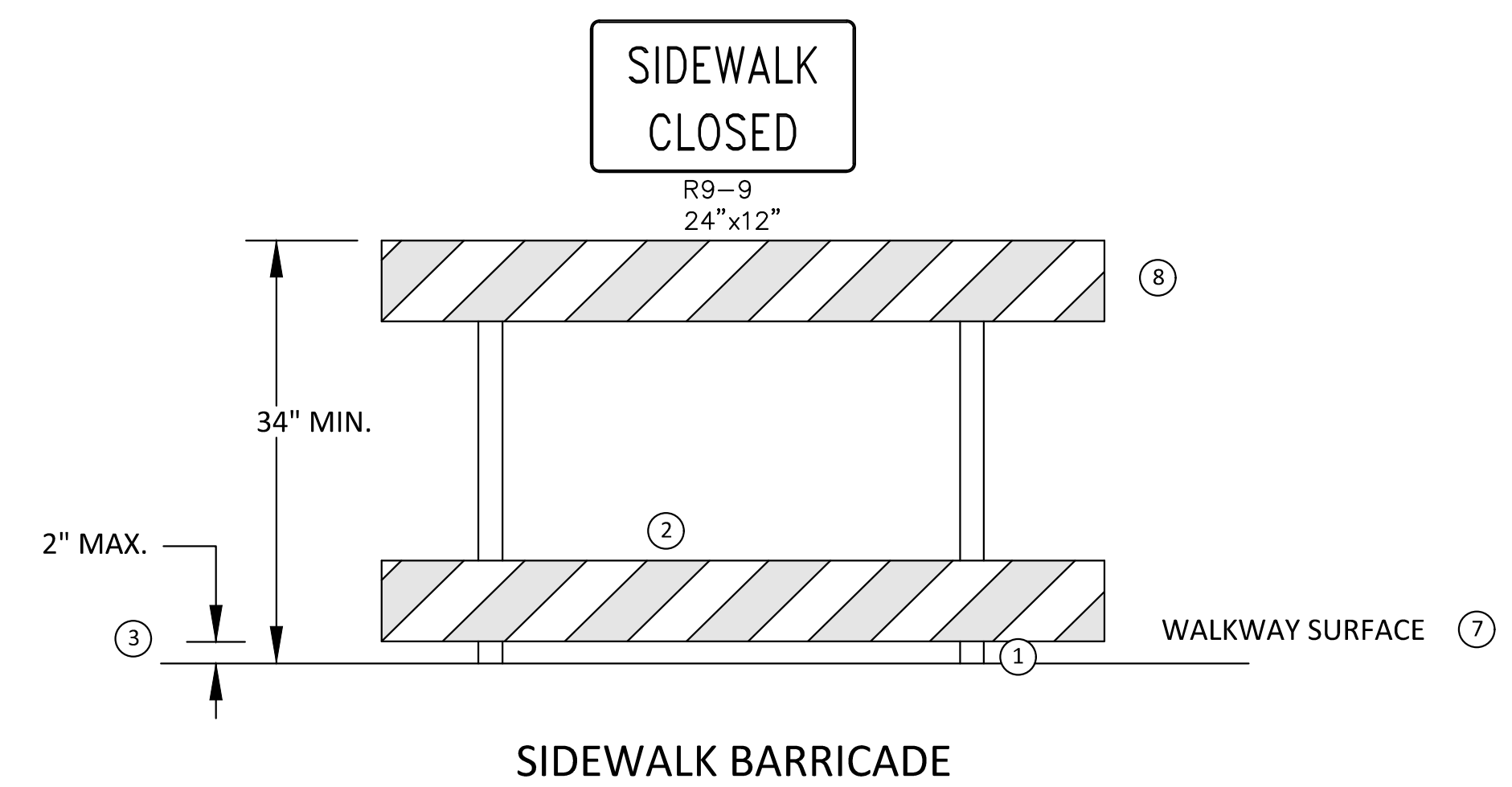
PEDESTRIAN CHANNELIZER USING A BARRIER
(MINIMUM REQUIREMENTS)



PEDESTRIAN CHANNELIZER
(MINIMUM REQUIREMENTS)



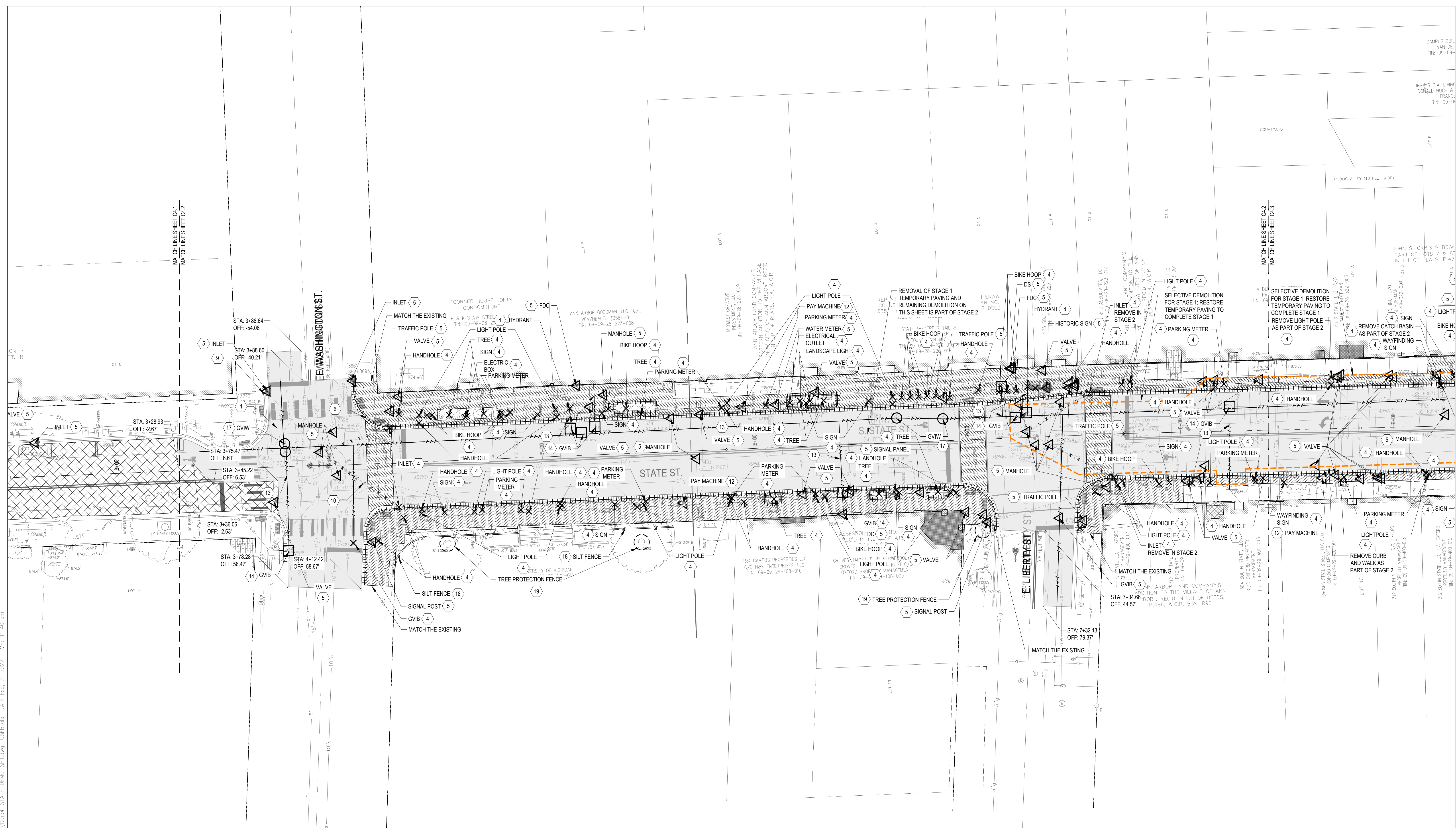
NARROW TEMPORARY PEDESTRIAN ACCESS ROUTE PASSING DETAIL



SIDEWALK BARRICADE

FILE: C:\pwwork\mflanagan\01034457\CSP-PLS-MOT.dwg USER: MELANAGAN DATE: Feb. 18. 2022 TIME: 01:25 pm

							STATE ST STREETScape - CITY OF ANN ARBOR	
SEE ABOVE							SCALE	INCH
BENCH MARK	SURVEY BOOK	100% BID SET	02-18-2022				DRAWING NO. C3.10	
REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY	APPROVED BY		SHEET NO. ___ OF ___	



- NOTE:**
- CONTRACTOR SHALL ADJUST (RAISE OR LOWER) ALL EXISTING VALVES, MANHOLE RIMS, HATCHES, AND HANDHOLES INDICATED TO REMAIN TO MATCH PROPOSED GRADE ELEVATIONS AS DESIGNATED ON THE GRADING PLANS.
 - DTE WILL BE INSTALLING A NEW GAS MAIN THROUGH PARTS OF THE PROJECT AREA DURING THE STREET RECONSTRUCTION. THE CONTRACTOR IS TO COORDINATE WORK WITH DTE AS NECESSARY.
 - THE PROJECT AREA IS KNOWN TO HAVE INCLUDED A TROLLEY TRACK. IN SOME PARTS OF DOWNTOWN, THE SUBSURFACE AREA INCLUDES CONCRETE FOUNDATIONS FROM THE TRACKS. IF THE STREET RECONSTRUCTION PROJECT UNCOVERS CONCRETE FOUNDATIONS FROM THE TRACK IN THE PROJECT AREA, THE CONTRACTOR IS TO REMOVE THE FOUNDATIONS AS DIRECTED BY THE ENGINEER. THE DEMOLITION AND REMOVAL OF THE TRACKS IS TO BE PAID FOR AS "TROLLEY TRACK REMOVAL".
 - ALL BRICK REMOVAL NEEDS TO BE SALVAGED TO UNIVERSITY OF MICHIGAN
 - CONTRACTOR INSTALLS TREE PROTECTION FENCE AT LIMIT DETERMINED BY ENGINEER.

1	PAVEMENT REMOVAL - FULL DEPTH, TYP.	6	REMOVE FENCE, CONCRETE CURB & GUTTER, TYP.	11	SAW CUT, TYP.
2	CLEARING - REMOVE LAWN / GRASS / SHRUB MASS / ORGANIC MATERIAL / STUMP / ROOT STRUCTURE / EDGING & DEBRIS, PAID FOR AS MACHINE GRADING, TYP.	7	PAVEMENT MARKING REMOVAL, TYP.	12	RELOCATE, TYP.
3	REMOVE PAVEMENT AND PAVEMENT/ CONCRETE PAVEMENT, TYP. REMOVE OR SALVAGE, TYP.	8	1 LIFT FILL AND MILL, TYP.	13	WATER MAIN, ABANDON WITH FLOWABLE FILL (6" AND GREATER DIAMETER); WATER MAIN PIPE ABANDONMENT (LESS THAN 6" DIAMETER), TYP.
4	PROTECTED ITEMS, TYP.	9	INLET PROTECTION, TYP.	14	GATE VALVE-IN-BOX, ABANDON, TYP.
5		10	UTILITY REMOVAL, TYP.	15	RIGHT OF WAY, TYP.
				16	EXISTING VAULT, TYP.
				17	GATE VALVE IN WELL, ABANDON, TYP.
				18	SILT FENCE, TYP.
				19	TREE PROTECTION FENCE, TYP.
				20	TEMPORARY PAVING AREA, TYP.

SEE ABOVE					
BENCH MARK	SURVEY BOOK	100% BID SET	02-18-2022		
REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY	

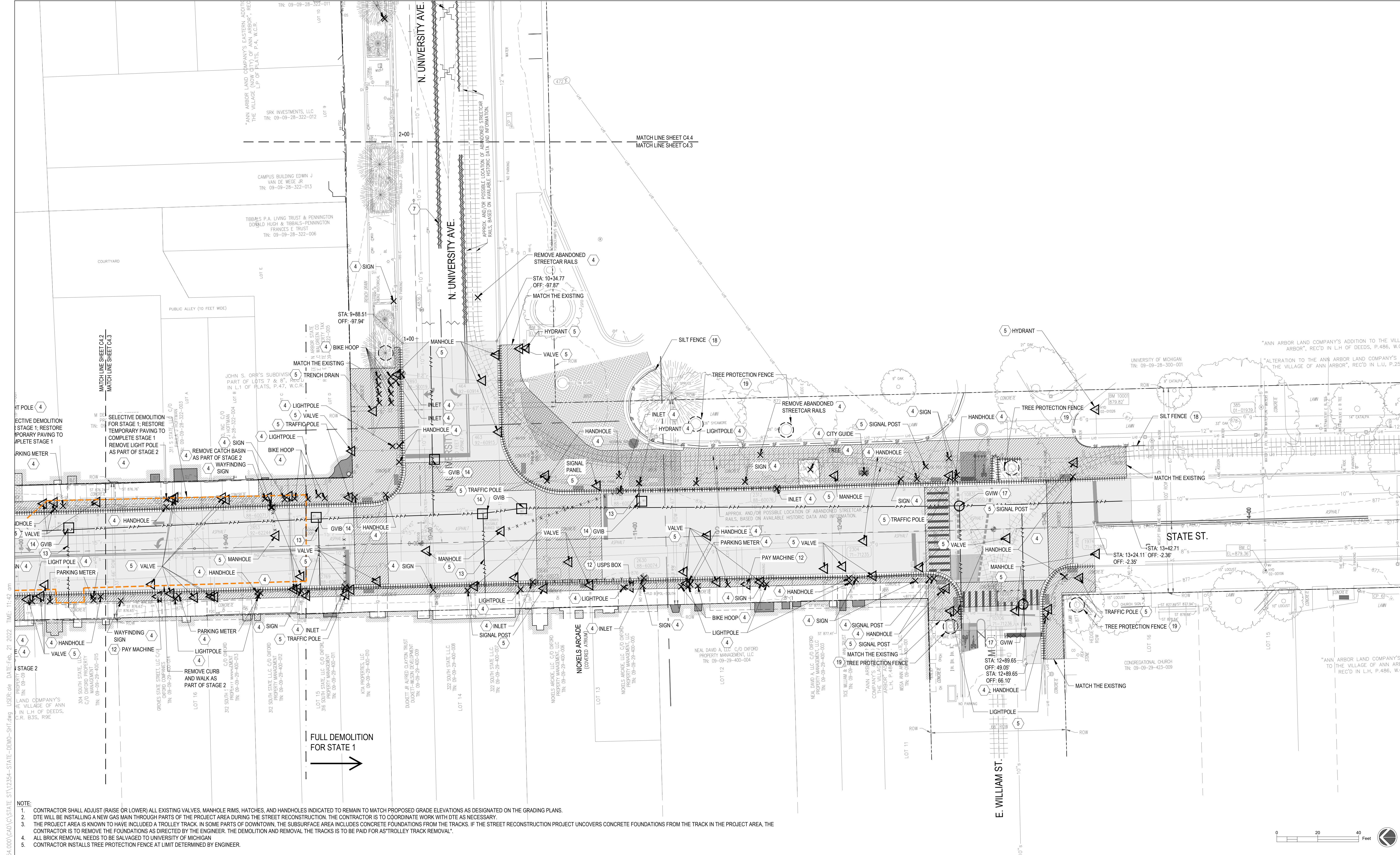
STATE ST STREETScape - CITY OF ANN ARBOR

DEMOLITION PLAN 2

SCALE	INCH
DRAWING NO.	C4.2
SHEET NO.	OF

APPROVED BY _____

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- NOTE:**
- CONTRACTOR SHALL ADJUST (RAISE OR LOWER) ALL EXISTING VALVES, MANHOLE RIMS, HATCHES, AND HANDHOLES INDICATED TO REMAIN TO MATCH PROPOSED GRADE ELEVATIONS AS DESIGNATED ON THE GRADING PLANS.
 - DTE WILL BE INSTALLING A NEW GAS MAIN THROUGH PARTS OF THE PROJECT AREA DURING THE STREET RECONSTRUCTION. THE CONTRACTOR IS TO COORDINATE WORK WITH DTE AS NECESSARY.
 - THE PROJECT AREA IS KNOWN TO HAVE INCLUDED A TROLLEY TRACK. IN SOME PARTS OF DOWNTOWN, THE SUBSURFACE AREA INCLUDES CONCRETE FOUNDATIONS FROM THE TRACKS. IF THE STREET RECONSTRUCTION PROJECT UNCOVERS CONCRETE FOUNDATIONS FROM THE TRACK IN THE PROJECT AREA, THE CONTRACTOR IS TO REMOVE THE FOUNDATIONS AS DIRECTED BY THE ENGINEER. THE DEMOLITION AND REMOVAL OF THE TRACKS IS TO BE PAID FOR AS "TROLLEY TRACK REMOVAL".
 - ALL BRICK REMOVAL NEEDS TO BE SALVAGED TO UNIVERSITY OF MICHIGAN
 - CONTRACTOR INSTALLS TREE PROTECTION FENCE AT LIMIT DETERMINED BY ENGINEER.

1	PAVEMENT REMOVAL - FULL DEPTH, TYP.	6	+++++ REMOVE FENCE, CONCRETE CURB & GUTTER, TYP.	11	— SAW CUT, TYP.
2	CLEARING - REMOVE LAWN / GRASS / SHRUB MASS / ORGANIC MATERIAL / STUMP / ROOT STRUCTURE / EDGING & DEBRIS, PAID FOR AS MACHINE GRADING, TYP.	7	~~~~~ PAVEMENT MARKING REMOVAL, TYP.	12	△ RELOCATE, TYP.
3	REMOVE PAVEMENT AND PAVEMENT/ CONCRETE PAVEMENT, TYP. REMOVE OR SALVAGE, TYP.	8	XXXXX 1 LIFT FILL AND MILL, TYP.	13	--- WATER MAIN, ABANDON WITH FLOWABLE FILL (6" AND GREATER DIAMETER); WATER MAIN PIPE ABANDONMENT (LESS THAN 6" DIAMETER), TYP.
4	PROTECTED ITEMS, TYP.	9	○ INLET PROTECTION, TYP.	14	□ GATE VALVE-IN-BOX, ABANDONMENT, TYP.
5		10	· · · · · UTILITY REMOVAL, TYP.	15	— RIGHT OF WAY, TYP.
				16	□ EXISTING VAULT, TYP.
				17	○ GATE VALVE IN WELL, ABANDON, TYP.
				18	— SF — SILT FENCE, TYP.
				19	○ TREE PROTECTION FENCE, TYP.
				20	--- TEMPORARY PAVING AREA, TYP.

STATE ST STREETScape - CITY OF ANN ARBOR

DEMOLITION PLAN 3

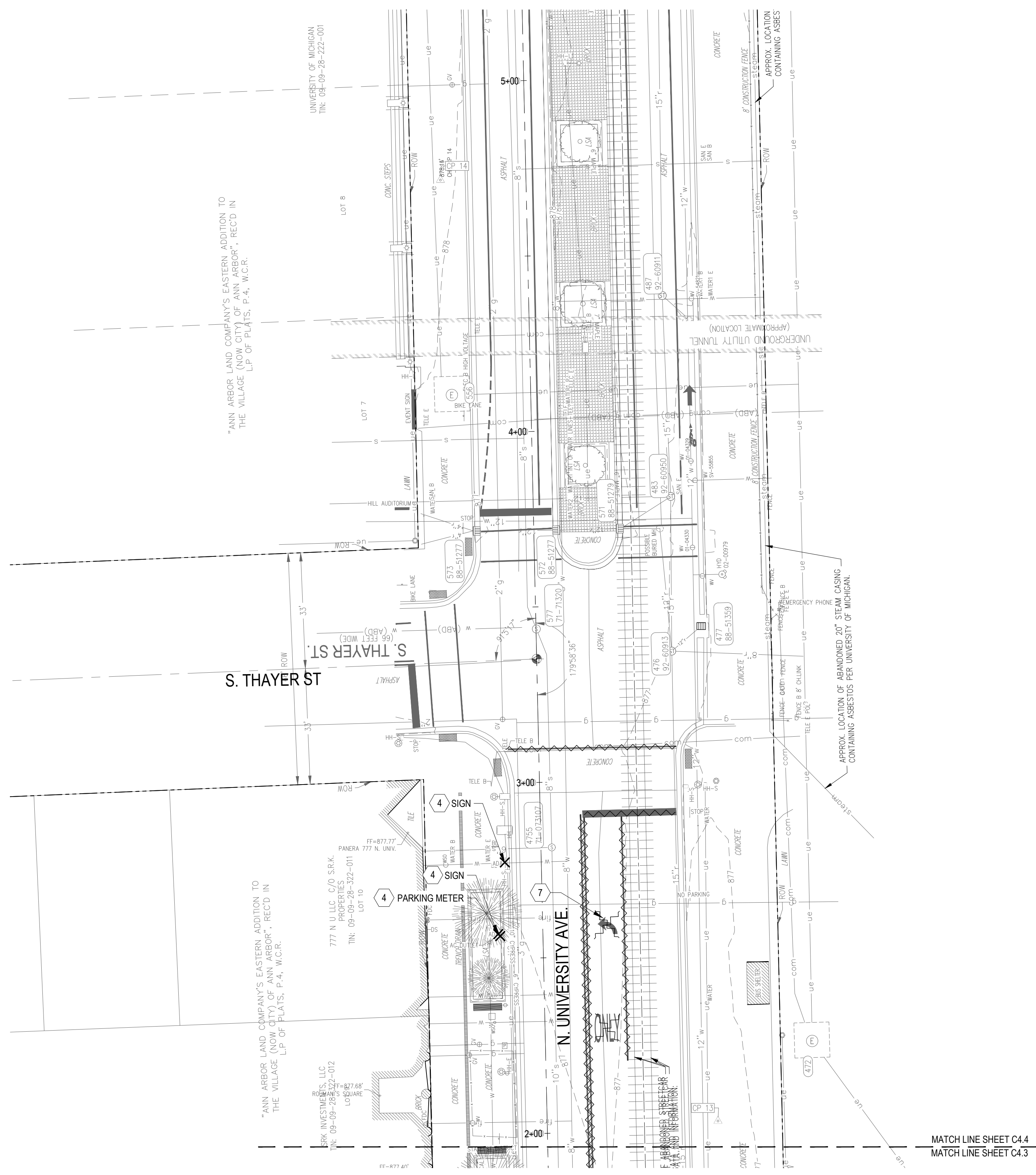
SEE ABOVE	SURVEY BOOK	100% BID SET	02-18-2022	DR.BY	CH.BY
BENCH MARK					

APPROVED BY _____

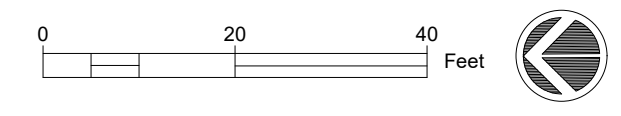
SCALE	INCH
DRAWING NO.	C4.3
SHEET NO.	OF

FILE: \\g:\projects\12354\STATE-DEM-SHT.dwg USER: dte DATE: Feb 21 2022 TIME: 11:42 am

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- NOTE:**
- CONTRACTOR SHALL ADJUST (RAISE OR LOWER) ALL EXISTING VALVES, MANHOLE RIMS, HATCHES, AND HANDHOLES INDICATED TO REMAIN TO MATCH PROPOSED GRADE ELEVATIONS AS DESIGNATED ON THE GRADING PLANS.
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 - ALL BRICK REMOVAL NEEDS TO BE SALVAGED TO UNIVERSITY OF MICHIGAN
 - CONTRACTOR INSTALLS TREE PROTECTION FENCE AT LIMIT DETERMINED BY ENGINEER.



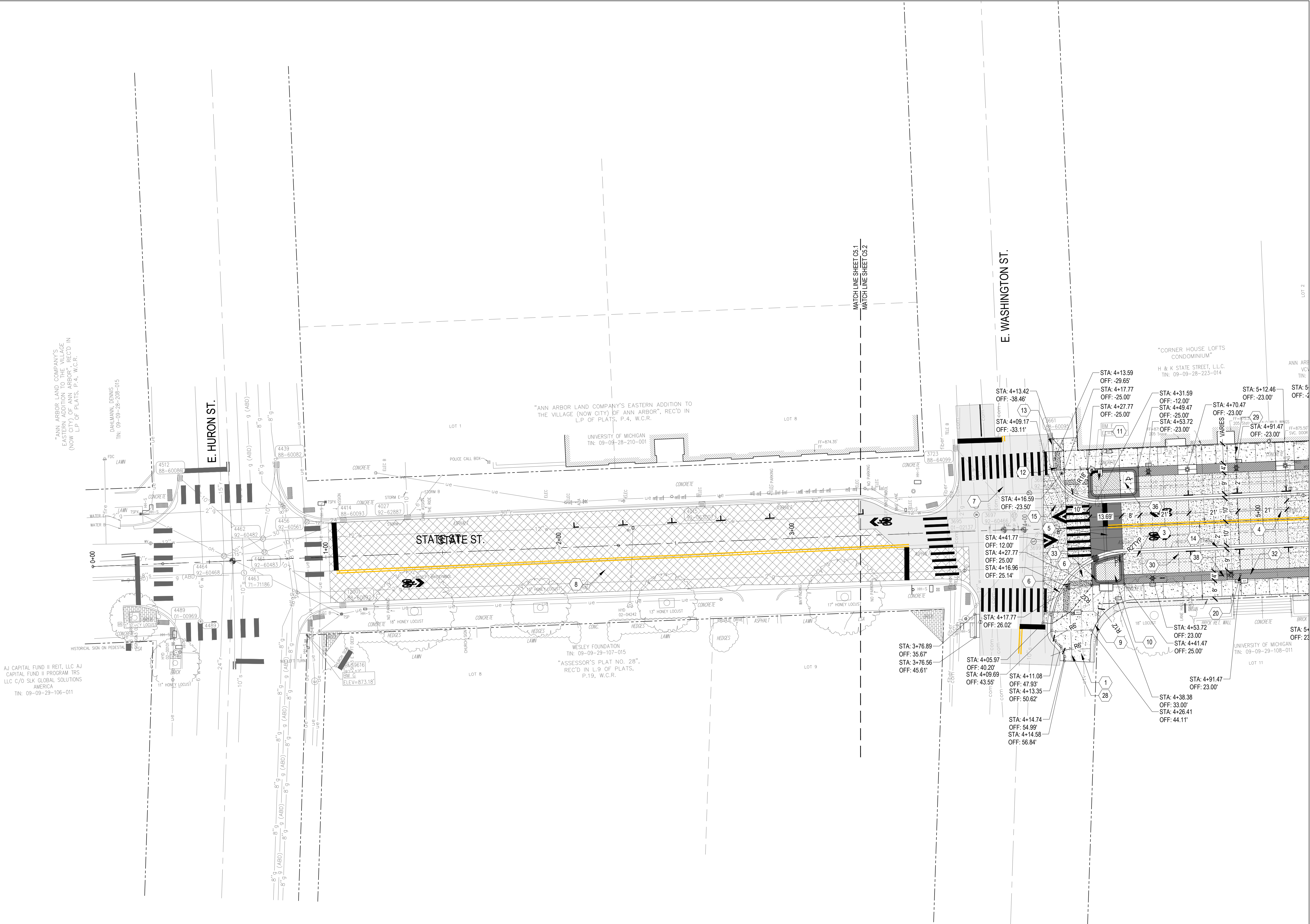
1	PAVEMENT REMOVAL - FULL DEPTH, TYP.	6	+++++ REMOVE FENCE, CONCRETE CURB & GUTTER, TYP.	11	— SAW CUT, TYP.
2	CLEARING - REMOVE LAWN / GRASS / SHRUB MASS / ORGANIC MATERIAL / STUMP / ROOT STRUCTURE / EDGING & DEBRIS, PAID FOR AS MACHINE GRADING, TYP.	7	~~~~~ PAVEMENT MARKING REMOVAL, TYP.	12	△ RELOCATE, TYP.
3	REMOVE PAVER AND PAVEMENT/ CONCRETE PAVEMENT, TYP. REMOVE OR SALVAGE, TYP.	8	XXXXX 1 LIFT FILL AND MILL, TYP.	13	--- WATER MAIN, ABANDON WITH FLOWABLE FILL (6" AND GREATER DIAMETER); WATER MAIN PIPE ABANDONMENT (LESS THAN 6" DIAMETER), TYP.
4	PROTECTED ITEMS, TYP.	9	○ INLET PROTECTION, TYP.	14	□ GATE VALVE-IN-BOX, ABANDON, TYP.
5		10	· · · · · UTILITY REMOVAL, TYP.	15	— RIGHT OF WAY, TYP.
				16	□ EXISTING VAULT, TYP.
				17	○ GATE VALVE IN WELL, ABANDON, TYP.
				18	— SF — SILT FENCE, TYP. (3 C9.4)
				19	○ TREE PROTECTION FENCE, TYP.
				20	□ TEMPORARY PAVING AREA, TYP. (11 C9.1)

STATE ST STREETScape - CITY OF ANN ARBOR						
DEMOLITION PLAN 4						
BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR.BY	CH.BY
SEE ABOVE			100% BID SET	02-18-2022		

SCALE	INCH
DRAWING NO.	C4.4
SHEET NO.	OF

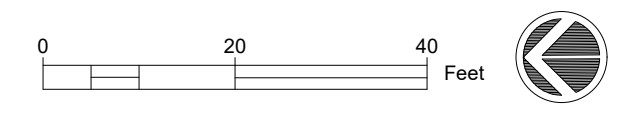
APPROVED BY _____

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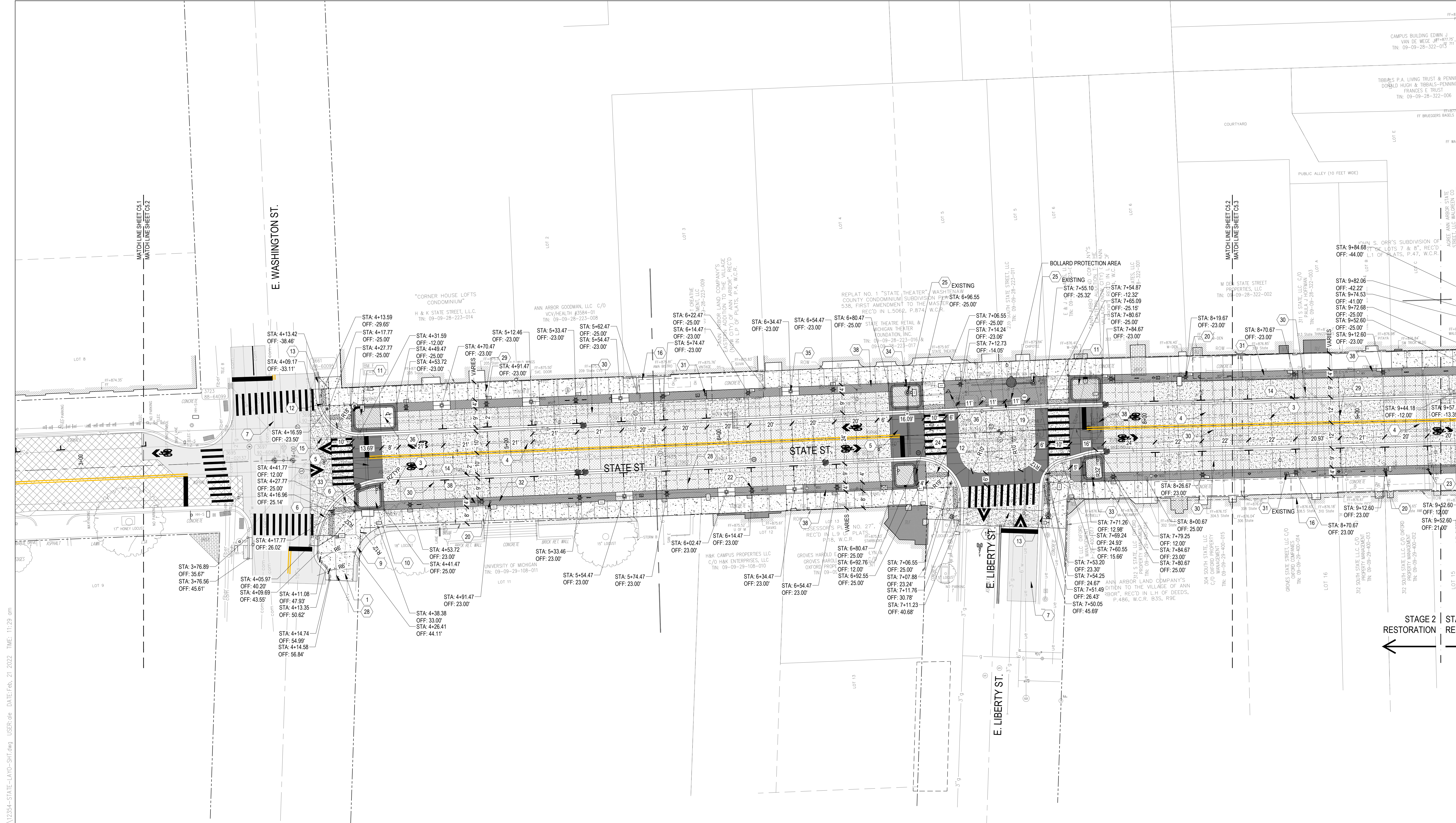


LEGEND

1	CONCRETE SIDEWALK, 6 INCH, TYP.	9	LAWN, TYP.	17	BIKEWAY POST, TYP.	3	C9.3	24	URBAN BENCH, TYP.	1	C9.2	31	PARKING PAY MACHINE, TYP.
2	CONCRETE SIDEWALK, 8 INCH, TYP.	10	PLANTER BED, TYP.	18	RE-USED FLEXIBLE BOLLARD, TYP.	8	C9.3	25	TRAFFIC SIGNAL POLE, TYP.	1	C9.2	32	BIKE HOOP, TYP.
3	ROAD CONCRETE PAVEMENT, 8 INCH, TYPE 1, TYP.	11	RAIN GARDEN, TYP.	18	BOLLARD, TYP.	4	C9.4	26	BIKEWAY CURB, TYP.	1	C9.3	33	PLANTER CURB, TYP.
4	ROAD CONCRETE PAVEMENT, 8 INCH, TYPE 2, TYP.	12	DETECTABLE WARNING SURFACE, MODIFIED, TYP.	20	LIGHT POLE, TYP.	2	E2.1	27	RIGHT OF WAY, TYP.	1	C9.3	34	PLANTER CURB CUT, TYP.
5	ROAD CONCRETE PAVEMENT, COLORED, 8 INCH, TYP.	13	STANDARD CURB AND GUTTER, TYP.	21	FESTOON LIGHT POLE, TYP.	1	E2.1	28	CONTRACTION JOINT, TYP.	8	C9.1	35	TREE GRATE & TREE GUARD, TYP.
6	SIDEWALK RAMP, 8 INCH, TYP.	14	VALLEY GUTTER, TYP.	22	NEW SIGNAGE, TYP.	1	E2.1	29	EXPANSION JOINT, TYP.	6	C9.1	36	FIRE HYDRANT, TYP.
7	HMA PAVEMENT, FULL DEPTH RECONSTRUCTION, TYP.	15	RAMP, TYP.	23	PARKING METER POST, TYP.	5	C9.1	30	DECORATIVE JOINT, TYP.	5	C9.1	37	PEDESTRIAN SIGNAL, TYP.
8	1 LIFT MILL & FILL, TYP.	16	EXISTING VAULT, TYP.							3	C9.1	38	PAVERS, TYP.



STATE ST STREETScape - CITY OF ANN ARBOR						
SEE ABOVE	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR.BY	
		100%	BID SET	02-18-2022		
STREETScape LAYOUT AND MATERIALS PLAN 1						
APPROVED BY					SCALE	INCH
					DRAWING NO. C5.1	
					SHEET NO. ___ OF ___	



- | | | | | | | | | | |
|---|---|----|--|----|--------------------------------|----|---------------------------|----|-------------------------------|
| 1 | CONCRETE SIDEWALK, 6 INCH, TYP. | 9 | LAWN, TYP. | 17 | BIKEWAY POST, TYP. | 24 | URBAN BENCH, TYP. | 31 | PARKING PAY MACHINE, TYP. |
| 2 | CONCRETE SIDEWALK, 8 INCH, TYP. | 10 | PLANTER BED, TYP. | 18 | RE-USED FLEXIBLE BOLLARD, TYP. | 25 | TRAFFIC SIGNAL POLE, TYP. | 32 | BIKE HOOP, TYP. |
| 3 | ROAD CONCRETE PAVEMENT, 8 INCH, TYPE 1, TYP. | 11 | RAIN GARDEN, TYP. | 18 | BOLLARD, TYP. | 26 | BIKEWAY CURB, TYP. | 33 | PLANTER CURB, TYP. |
| 4 | ROAD CONCRETE PAVEMENT, 8 INCH, TYPE 2, TYP. | 12 | DETECTABLE WARNING SURFACE, MODIFIED, TYP. | 20 | LIGHT POLE, TYP. | 27 | RIGHT OF WAY, TYP. | 34 | PLANTER CURB CUT, TYP. |
| 5 | ROAD CONCRETE PAVEMENT, COLORED, 8 INCH, TYP. | 13 | STANDARD CURB AND GUTTER, TYP. | 21 | FESTOON LIGHT POLE, TYP. | 28 | CONTRACTION JOINT, TYP. | 35 | TREE GRATE & TREE GUARD, TYP. |
| 6 | SIDEWALK RAMP, 8 INCH, TYP. | 14 | VALLEY GUTTER, TYP. | 22 | NEW SIGNAGE, TYP. | 29 | EXPANSION JOINT, TYP. | 36 | FIRE HYDRANT, TYP. |
| 7 | HMA PAVEMENT, FULL DEPTH RECONSTRUCTION, TYP. | 15 | RAMP, TYP. | 23 | PARKING METER POST, TYP. | 30 | DECORATIVE JOINT, TYP. | 37 | PEDESTRIAN SIGNAL, TYP. |
| 8 | 1FT MILL & FILL, TYP. | 16 | EXISTING VAULT, TYP. | | | | | 38 | PAVERS, TYP. |

SEE ABOVE	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR.BY	CH.BY
		100	BID SET	02-18-2022		

STATE ST STREETScape - CITY OF ANN ARBOR

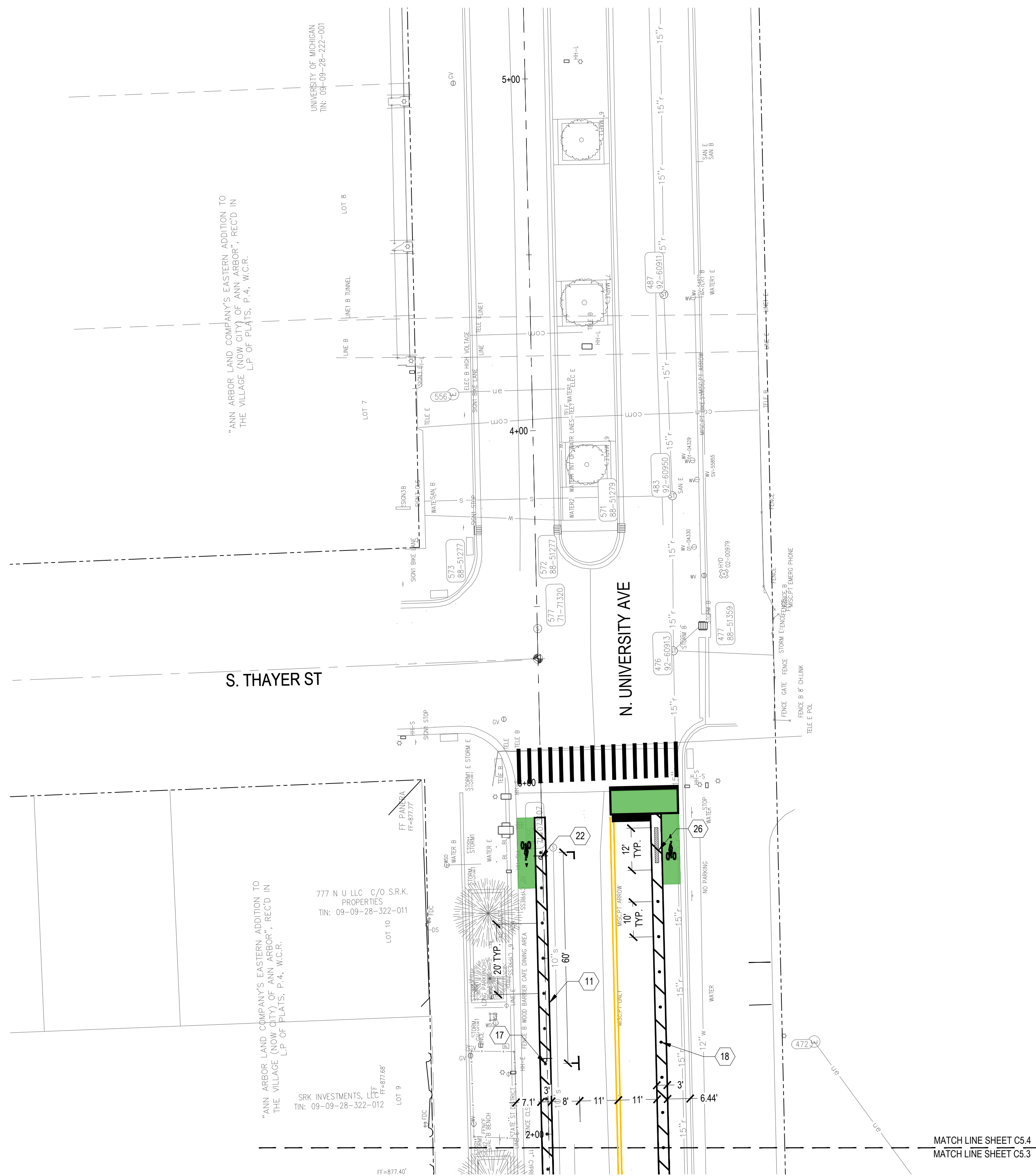
STREETScape LAYOUT AND MATERIALS PLAN 2

SCALE	INCH
DRAWING NO.	C5.2
SHEET NO.	OF

APPROVED BY _____

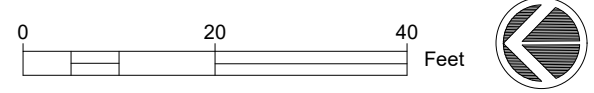
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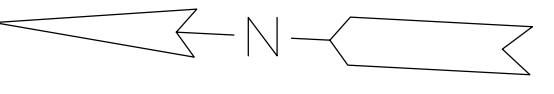


LEGEND

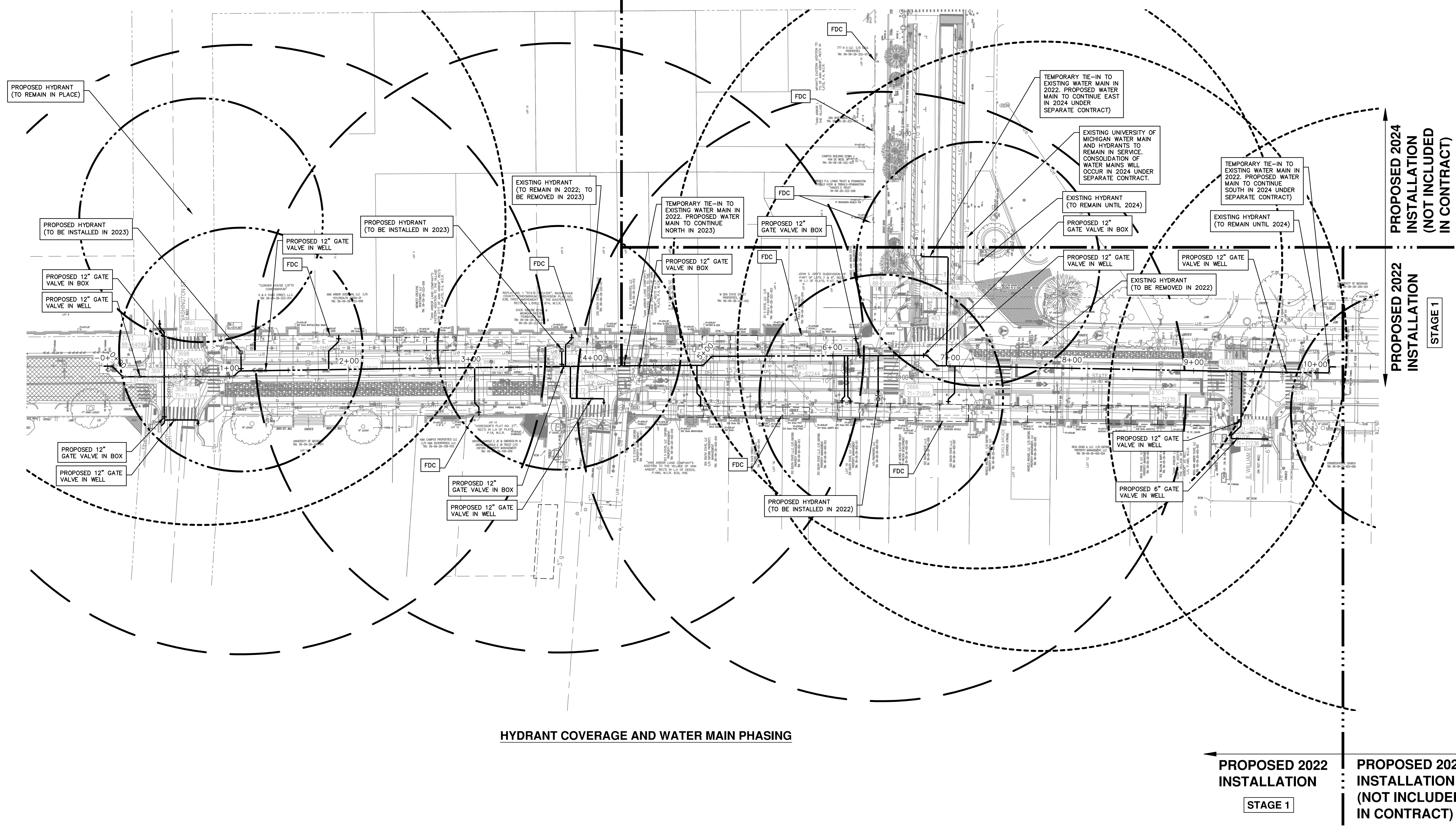
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|---|---|----|--|----|--------------------------------|----|---------------------------|----|-------------------------------|
| 1 | CONCRETE SIDEWALK, 6 INCH, TYP. | 9 | LAWN, TYP. | 17 | BIKEWAY POST, TYP. | 24 | URBAN BENCH, TYP. | 31 | PARKING PAY MACHINE, TYP. |
| 2 | CONCRETE SIDEWALK, 8 INCH, TYP. | 10 | PLANTER BED, TYP. | 18 | RE-USED FLEXIBLE BOLLARD, TYP. | 25 | TRAFFIC SIGNAL POLE, TYP. | 32 | BIKE HOOP, TYP. |
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| 4 | ROAD CONCRETE PAVEMENT, 8 INCH, TYPE 2, TYP. | 12 | DETECTABLE WARNING SURFACE, MODIFIED, TYP. | 20 | LIGHT POLE, TYP. | 27 | RIGHT OF WAY, TYP. | 34 | PLANTER CURB CUT, TYP. |
| 5 | ROAD CONCRETE PAVEMENT, COLORED, 8 INCH, TYP. | 13 | STANDARD CURB AND GUTTER, TYP. | 21 | FESTOON LIGHT POLE, TYP. | 28 | CONTRACTION JOINT, TYP. | 35 | TREE GRATE & TREE GUARD, TYP. |
| 6 | SIDEWALK RAMP, 8 INCH, TYP. | 14 | VALLEY GUTTER, TYP. | 22 | NEW SIGNAGE, TYP. | 29 | EXPANSION JOINT, TYP. | 36 | FIRE HYDRANT, TYP. |
| 7 | HMA PAVEMENT, FULL DEPTH RECONSTRUCTION, TYP. | 15 | RAMP, TYP. | 23 | PARKING METER POST, TYP. | 30 | DECORATIVE JOINT, TYP. | 37 | PEDESTRIAN SIGNAL, TYP. |
| 8 | 1 LIFT MILL & FILL, TYP. | 16 | EXISTING VAULT, TYP. | | | | | 38 | PAVERS, TYP. |



STATE ST STREETScape - CITY OF ANN ARBOR						
STREETScape LAYOUT AND MATERIALS PLAN 4						
SCALE	INCH					
DRAWING NO.	C5.4					
SHEET NO.	OF					
SEE ABOVE						
BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR.BY	CH.BY
			100% BID SET	02-18-2022		
APPROVED BY _____						

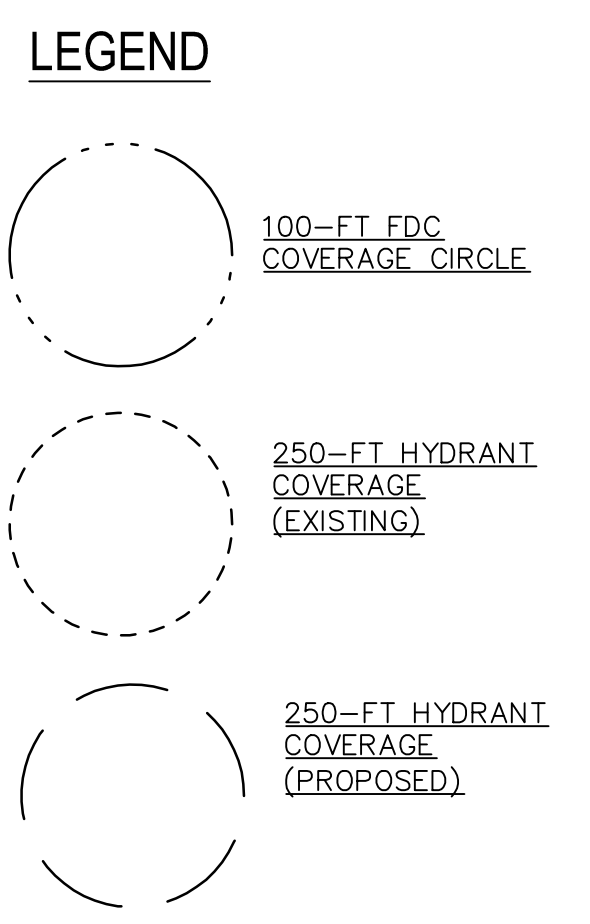


PROPOSED 2023 INSTALLATION STAGE 2
 PROPOSED 2022 INSTALLATION STAGE 1



PROPOSED 2024 INSTALLATION (NOT INCLUDED IN CONTRACT)
 PROPOSED 2022 INSTALLATION STAGE 1

PROPOSED 2022 INSTALLATION STAGE 1
 PROPOSED 2024 INSTALLATION (NOT INCLUDED IN CONTRACT)



HYDRANT COVERAGE AND WATER MAIN PHASING

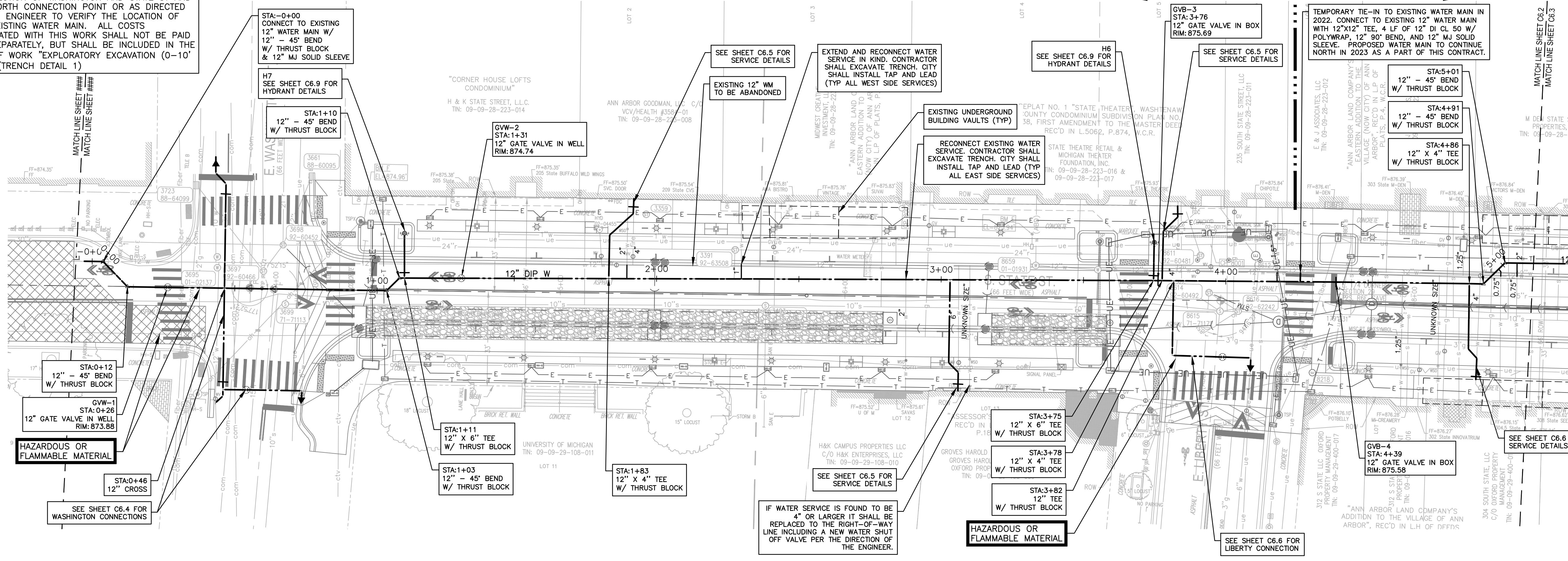
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							STATE ST STREETScape - CITY OF ANN ARBOR	
							STATE STREET & NORTH UNIVERSITY PROPOSED WATER MAIN PHASE I & II	
SEE ABOVE							SCALE	INCH
BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY	DRAWING NO.	C6.1
			100% BID SET	02-18-2022			SHEET NO.	OF
							APPROVED BY _____	

TWO WEEKS PRIOR TO THE START OF CONSTRUCTION ON STATE ST. THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION AT THE INTERSECTION OF WASHINGTON AND STATE ST AND THE NORTH CONNECTION POINT OR AS DIRECTED BY THE ENGINEER TO VERIFY THE LOCATION OF THE EXISTING WATER MAIN. ALL COSTS ASSOCIATED WITH THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXPLORATORY EXCAVATION (0-10' DEEP)" (TRENCH DETAIL 1)

PROPOSED 2023 INSTALLATION

PROPOSED 2022 INSTALLATION



WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	WELL DEPTH	T/P
GWV-1	12" GWV	0+26	873.88	7.06	5.52
GWV-2	12" GWV	1+31	874.74	8.55	7.01

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	T/P
GWV-3	12" GWV	3+76	875.69	6.44
GWV-4	12" GWV	4+39	875.58	7.00

Existing Water Services

Address	Station	Size
309 State	5+07	2
306 State	5+05	0.75
305 State	4+99	0.75
304 State	4+96	4
305 State	4+83	1.25
304 State	4+75	Unknown
302 State	4+62	1.25
235 State	4+18	1.5
233 State	3+99	4
231 State	3+80	2" Abandoned
220 State	3+10	Unknown
220 State	3+07	6
216 State	2+91	2
213 State	2+30	1
209 State	1+91	4
209 State	1+89	2
342 State	0+45 (E William)	Unknown

RESTRAINED JOINT SYSTEMS SHALL BE UTILIZED ON ALL WATER MAIN. RESTRAINED JOINT GASKET SYSTEMS ARE TO BE USED. (FIELD-LOK 350 BY U.S. PIPE, FAST-GRIP BY AMERICAN DUCTILE IRON PIPE, OR APPROVED EQUAL).

CONTRACTOR SHALL TAKE CAUTION IN EXCAVATING AND INSTALLING LEAD IN PROXIMITY TO EXISTING UNDERGROUND BUILDING VAULTS. PROTECT EXISTING VAULT. CONNECT TO EXISTING WATER SERVICE OUTSIDE EXISTING VAULT WALL.

THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF ANN ARBOR FOR THE FULL REPLACEMENT OF WATER SERVICE LEADS AT APPROXIMATELY TEN LOCATIONS ON S. STATE STREET. REPLACEMENT OF THE LEADS TO BE PERFORMED BY THE CITY AND/OR ITS PLUMBING CONTRACTOR. THIS SHALL NOT BE PAID FOR SEPARATELY AND SHALL BE COVERED UNDER THE ITEM OF WORK EXCAVATE & BACKFILL FOR WATER SERVICE TAP AND LEAD.

WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS "SACRIFICIAL ANODE, XX LB"

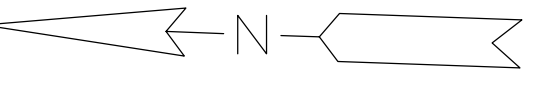
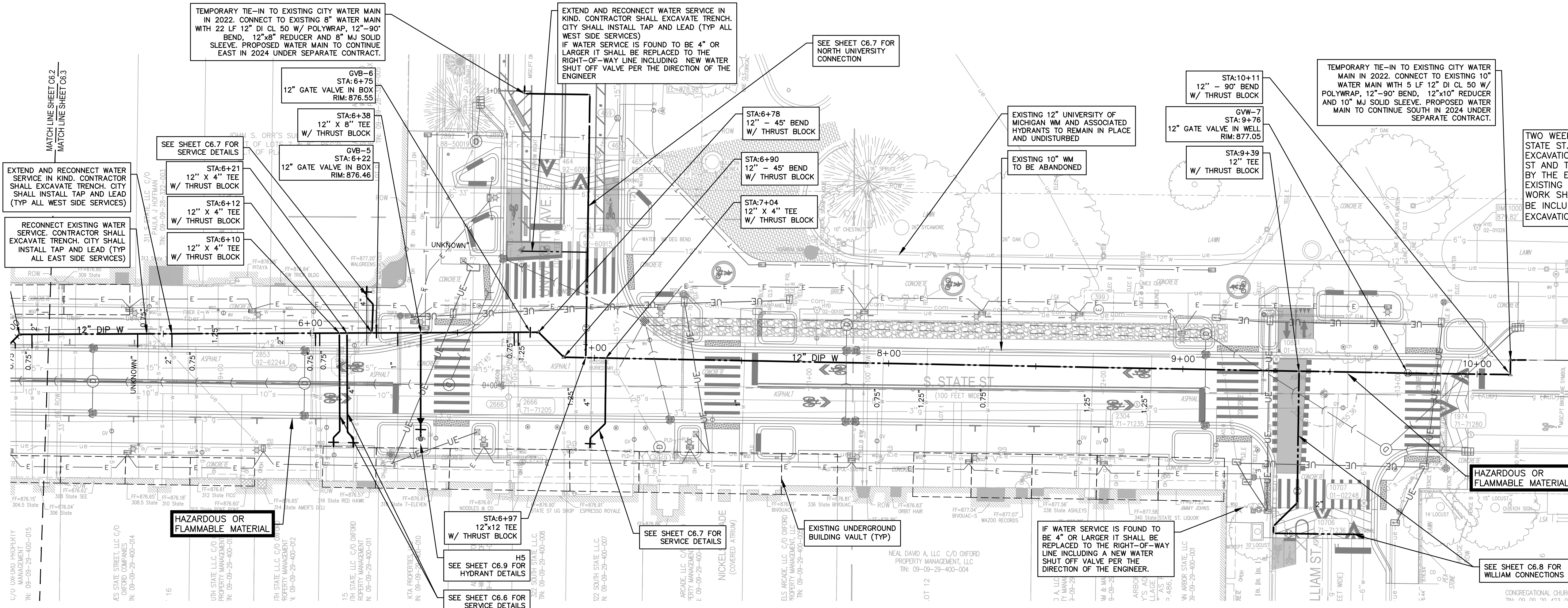
THE DEPTH AND SIZE OF ELECTRICAL, TELEPHONE AND FIBER OPTIC CONDUITS/DUCTS AND THE DEPTH OF GAS MAINS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY, SUPPORT AND PROTECT DURING CONSTRUCTION AND ADJUST WATER MAIN WHERE NECESSARY TO MAINTAIN 12-INCHES VERTICAL CLEARANCE FROM ALL UTILITIES (EXCEPT SANITARY AND STORM SEWER UNDER 18-INCHES IS REQUIRED). THIS WORK IS PAID FOR UNDER GENERAL CONDITIONS, MAX.

STATE ST STREETScape - CITY OF ANN ARBOR

**STATE STREET PROPOSED WATER MAIN
STA 0+00 TO STA 5+14.43**

SCALE	INCH
DRAWING NO.	C6.2
SHEET NO.	OF

SEE ABOVE	
BENCH MARK	SURVEY BOOK
REV. NO.	DESCRIPTION
DR.BY	CH.BY
APPROVED BY	



WATER MAIN STRUCTURE TABLE

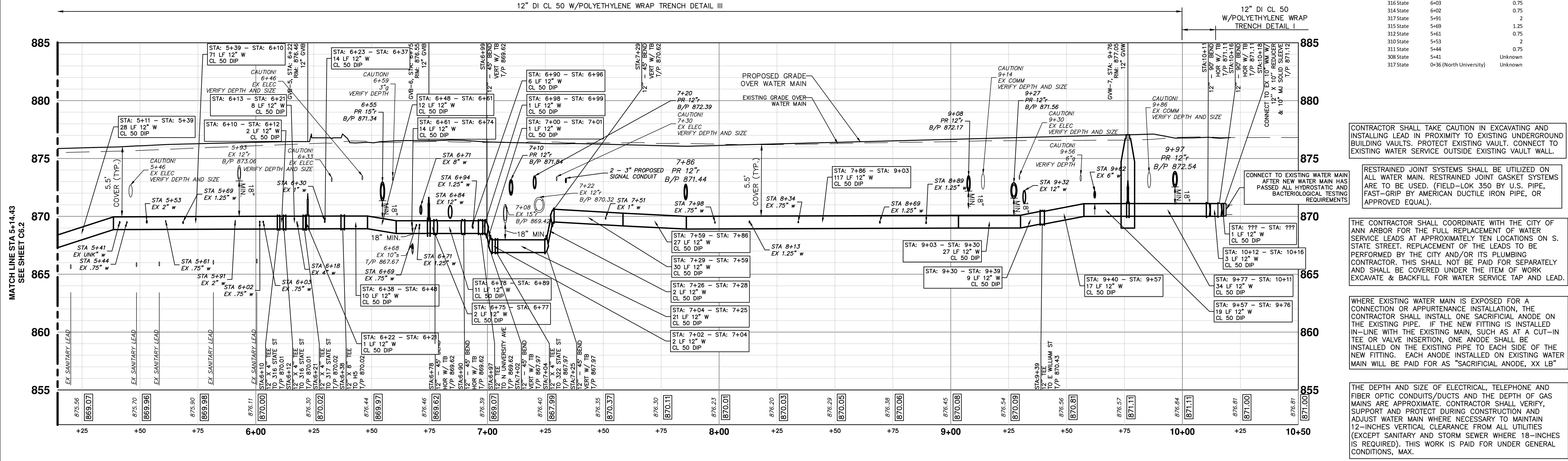
STRUCTURE	TYPE	STATION	RIM	T/P
GVB-5	4" GVB	6+22	876.46	7.21
GVB-6	4" GVB	6+75	876.55	7.67

WATER MAIN STRUCTURE TABLE

STRUCTURE	TYPE	STATION	RIM	T/P
GVW-7	12" GVB	9+76	877.05	6.56

HAZARDOUS OR FLAMMABLE MATERIAL

Address	Existing Water Services Station	Size
340 State	8+89	1.25
338 State	8+69	1.25
336 State	8+34	0.75
332 State	8+13	1.25
332 State	7+98	0.75
326 State	7+51	1
324 State	7+05	4
324 State	6+94	1.25
322 State	6+71	1.25
320 State	6+69	0.75
318 State	6+30	1
317 State	6+18	4
316 State	6+03	0.75
314 State	6+02	0.75
317 State	5+91	2
315 State	5+69	1.25
312 State	5+61	0.75
310 State	5+53	2
311 State	5+44	0.75
308 State	5+41	Unknown
317 State	0+36 (North University)	Unknown



CONTRACTOR SHALL TAKE CAUTION IN EXCAVATING AND INSTALLING LEAD IN PROXIMITY TO EXISTING UNDERGROUND BUILDING VAULTS. PROTECT EXISTING VAULT. CONNECT TO EXISTING WATER SERVICE OUTSIDE EXISTING VAULT WALL.

RESTRAINED JOINT SYSTEMS SHALL BE UTILIZED ON ALL WATER MAIN. RESTRAINED JOINT GASKET SYSTEMS ARE TO BE USED. (FIELD-LOK 350 BY U.S. PIPE, FAST-GRIP BY AMERICAN DUCTILE IRON PIPE, OR APPROVED EQUAL).

THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF ANN ARBOR FOR THE FULL REPLACEMENT OF WATER SERVICE LEADS AT APPROXIMATELY TEN LOCATIONS ON S. STATE STREET. REPLACEMENT OF THE LEADS TO BE PERFORMED BY THE CITY AND/OR ITS PLUMBING CONTRACTOR. THIS SHALL NOT BE PAID FOR SEPARATELY AND SHALL BE COVERED UNDER THE ITEM OF WORK EXCAVATE & BACKFILL FOR WATER SERVICE TAP AND LEAD.

WHERE EXISTING WATER MAIN IS EXPOSED FOR A CONNECTION OR APPURTENANCE INSTALLATION, THE CONTRACTOR SHALL INSTALL ONE SACRIFICIAL ANODE ON THE EXISTING PIPE. IF THE NEW FITTING IS INSTALLED IN-LINE WITH THE EXISTING MAIN, SUCH AS AT A CUT-IN TEE OR VALVE INSERTION, ONE ANODE SHALL BE INSTALLED ON THE EXISTING PIPE TO EACH SIDE OF THE NEW FITTING. EACH ANODE INSTALLED ON EXISTING WATER MAIN WILL BE PAID FOR AS "SACRIFICIAL ANODE, XX LB"

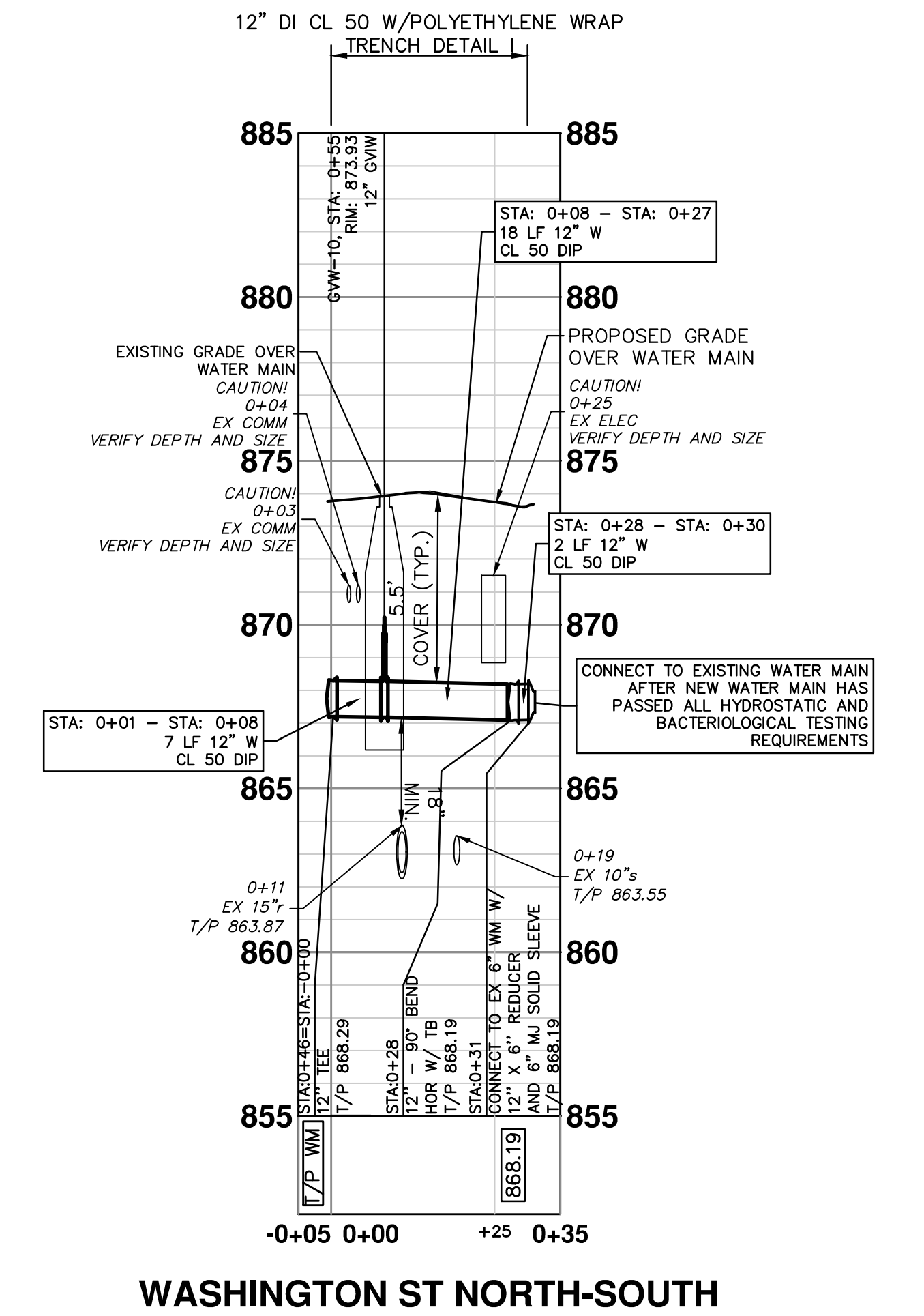
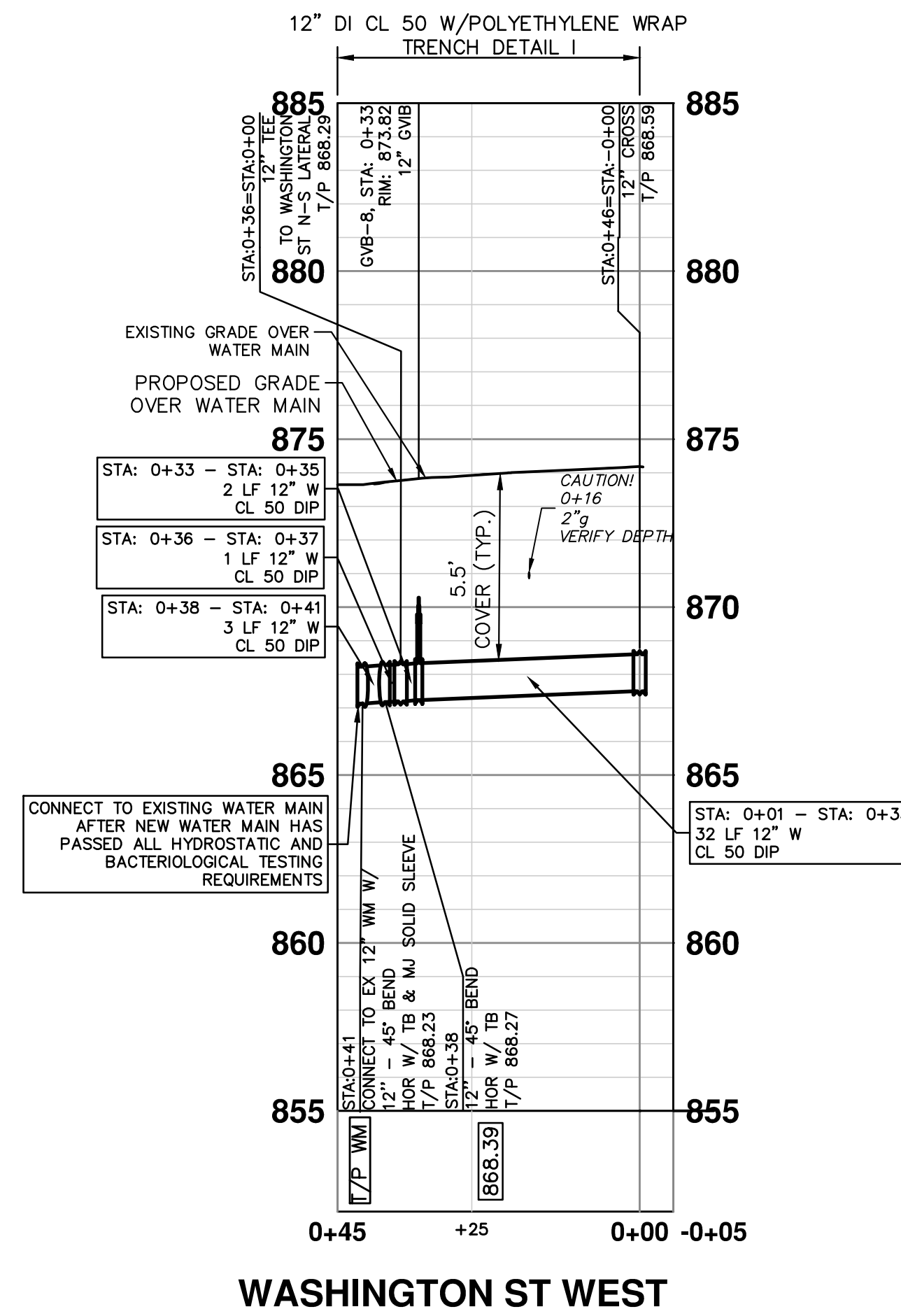
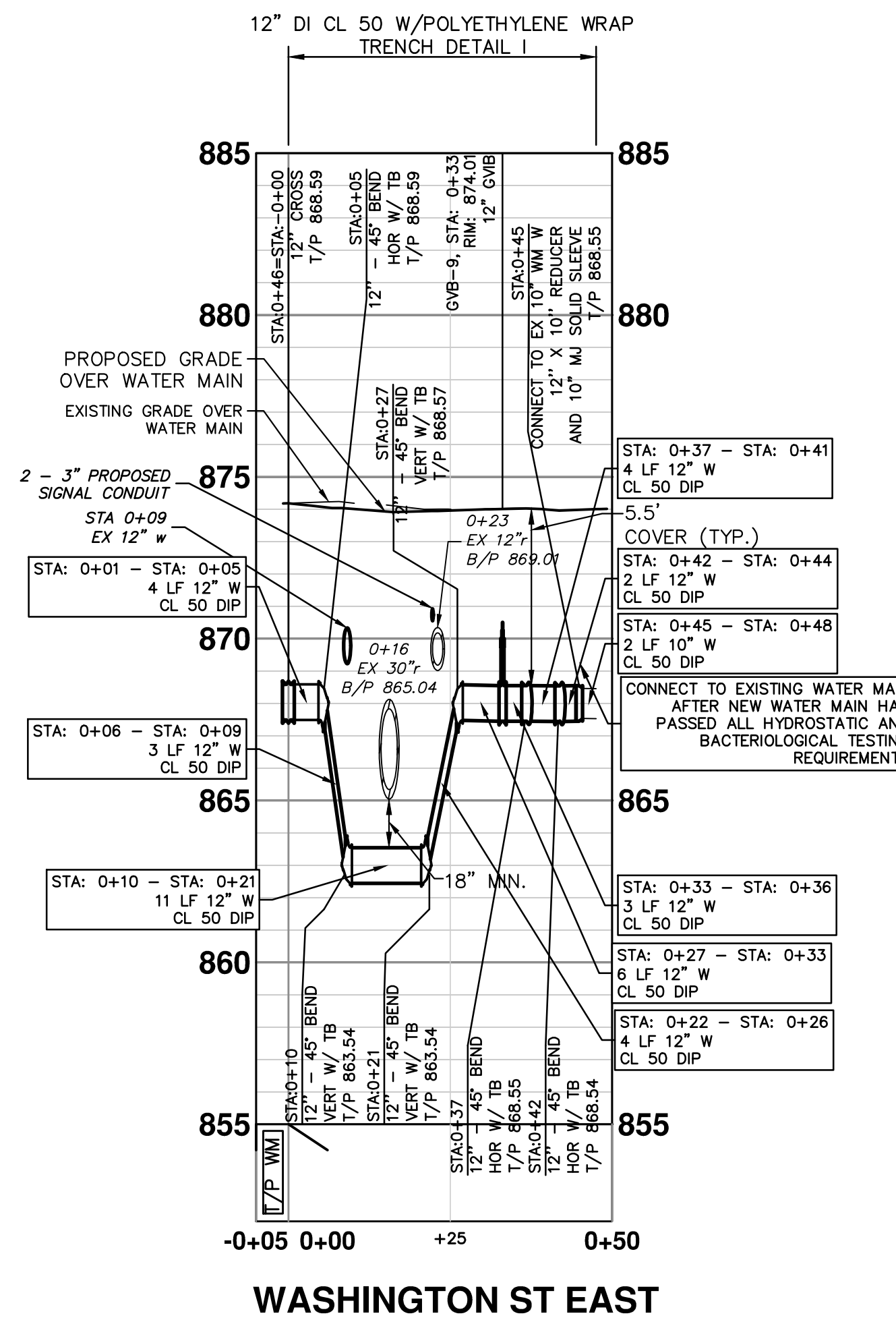
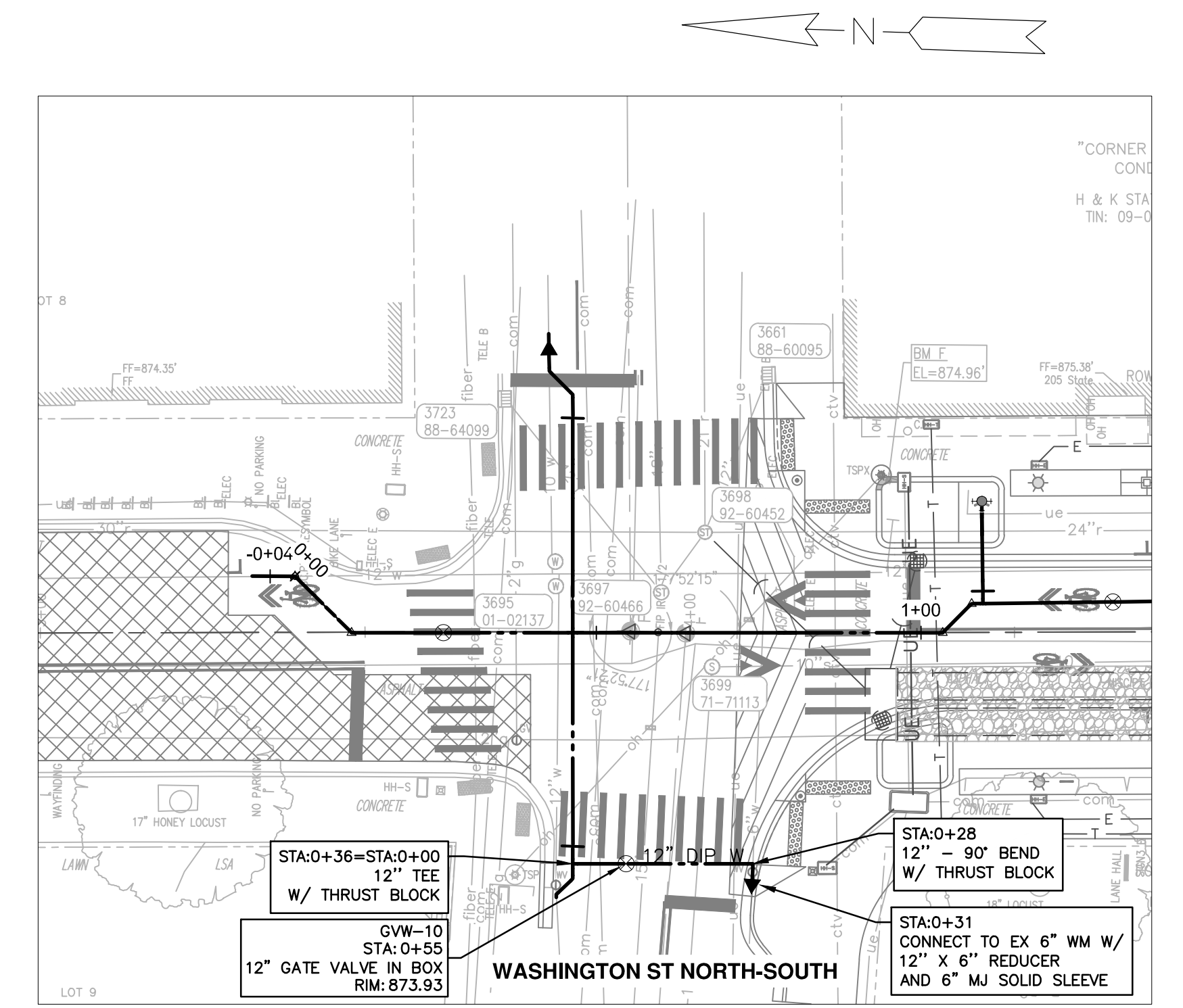
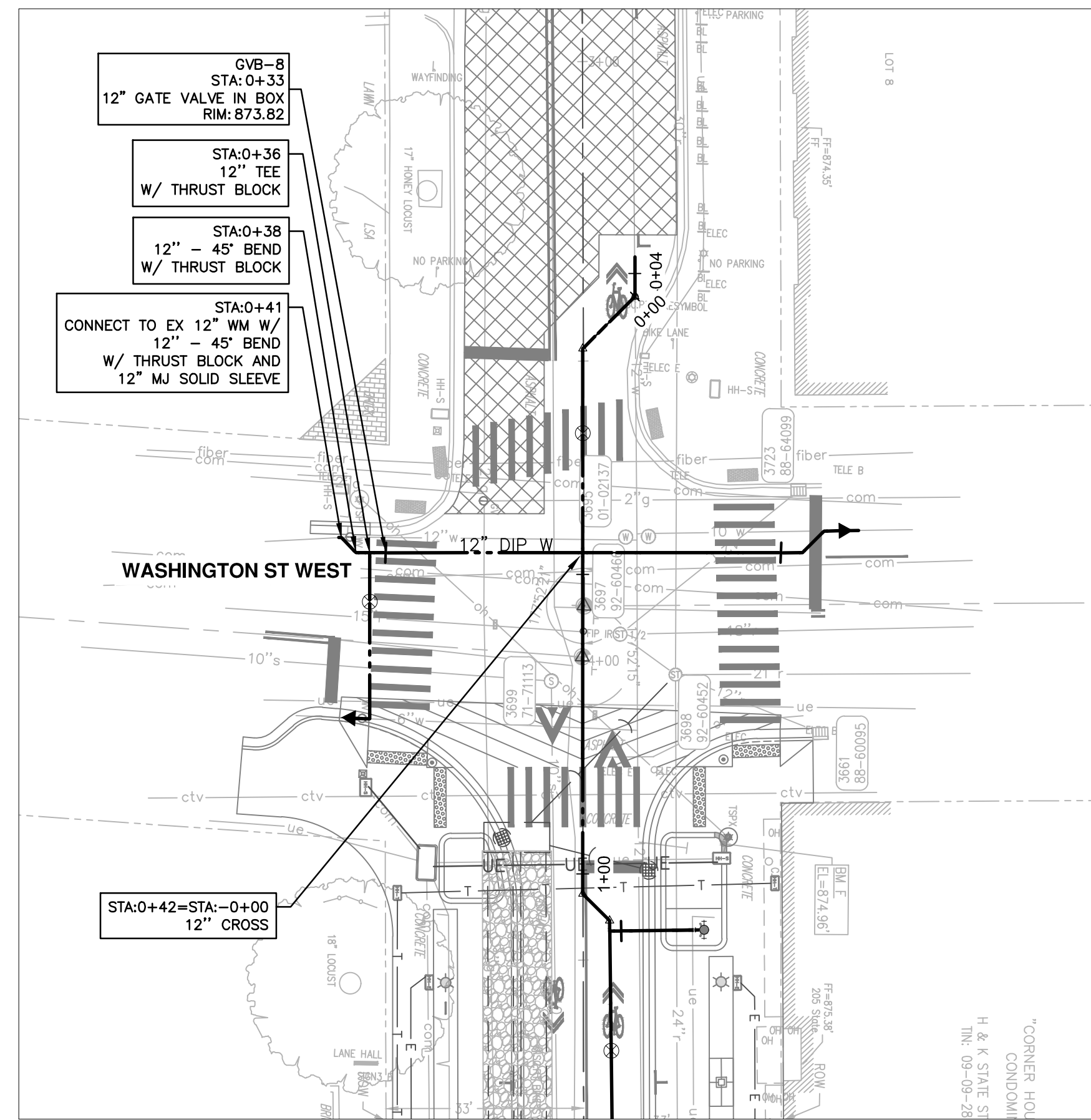
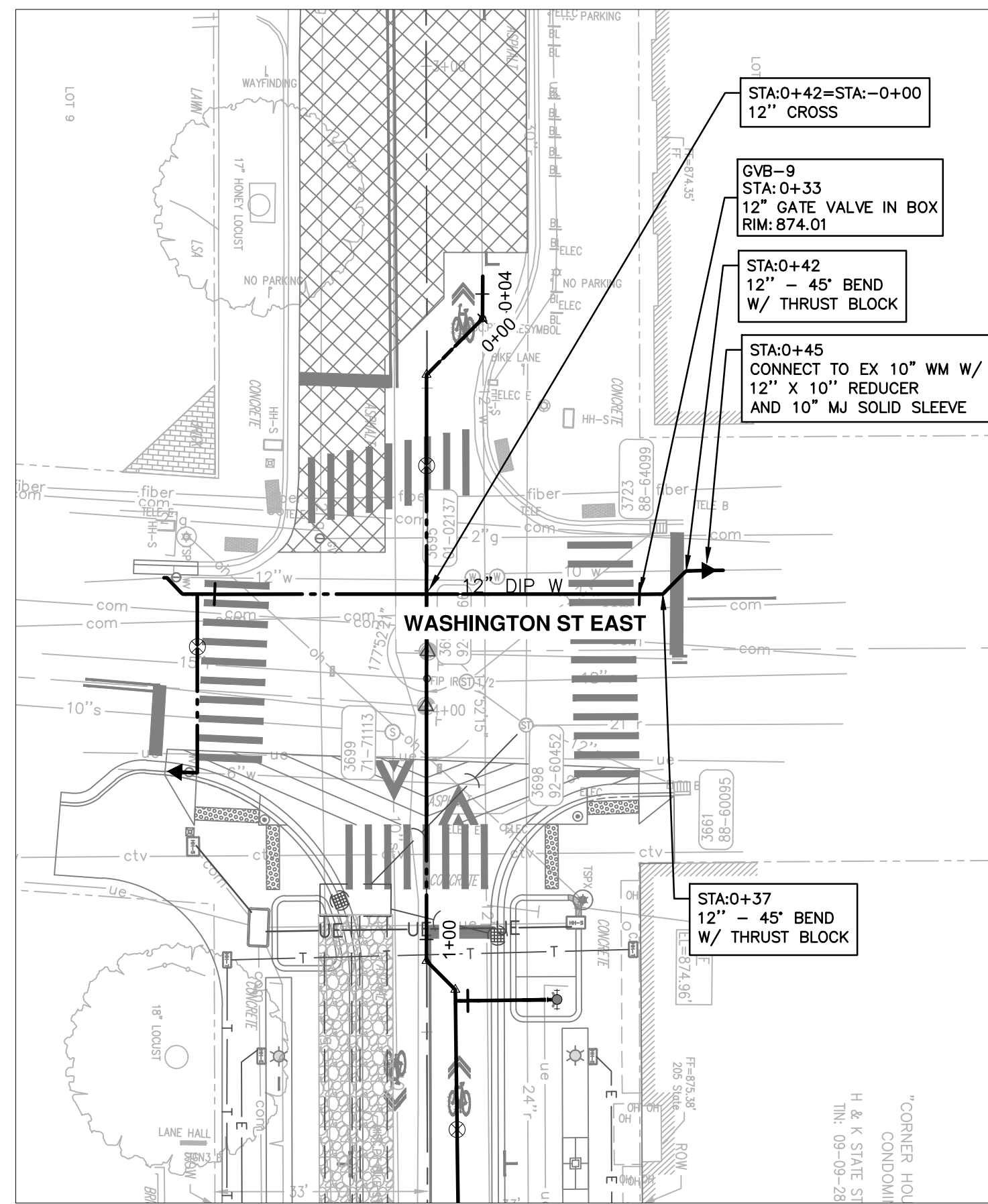
THE DEPTH AND SIZE OF ELECTRICAL, TELEPHONE AND FIBER OPTIC CONDUITS/DUCTS AND THE DEPTH OF GAS MAINS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY, SUPPORT AND PROTECT DURING CONSTRUCTION AND ADJUST WATER MAIN WHERE NECESSARY TO MAINTAIN 12-INCHES VERTICAL CLEARANCE FROM ALL UTILITIES (EXCEPT SANITARY AND STORM SEWER WHERE 18-INCHES IS REQUIRED). THIS WORK IS PAID FOR UNDER GENERAL CONDITIONS, MAX.

STATE ST STREETScape - CITY OF ANN ARBOR

**STATE STREET PROPOSED WATER MAIN
STA 5+14.43 - STA 10+19**

SCALE	INCH
DRAWING NO.	C6.3
SHEET NO.	OF

SEE ABOVE					
BENCH MARK	SURVEY BOOK	100% BID SET	02-18-2022	DR.BY	CH.BY
REV. NO.	DESCRIPTION	DATE	DR.BY	CH.BY	APPROVED BY



WATER MAIN STRUCTURE TABLE				
STRUCTURE	TYPE	STATION	RIM	T/P
GVB-8	12" GVB	0+33	873.82	5.59
GVB-9	12" GVB	0+33	874.01	5.56

WATER MAIN STRUCTURE TABLE					
STRUCTURE	TYPE	STATION	RIM	WELL DEPTH	T/P
GVW-10	12" GVW	0+55	873.93	7.26	5.72

RESTRAINED JOINT SYSTEMS SHALL BE UTILIZED ON ALL WATER MAIN. RESTRAINED JOINT GASKET SYSTEMS ARE TO BE USED. (FIELD-LOK 350 BY U.S. PIPE, FAST-GRIP BY AMERICAN DUCTILE IRON PIPE, OR APPROVED EQUAL).

TWO WEEKS PRIOR TO THE START OF CONSTRUCTION ON STATE ST. THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION AT THE INTERSECTION OF WASHINGTON AND STATE ST AND THE EAST & WEST CONNECTION POINT OR AS DIRECTED BY THE ENGINEER TO VERIFY THE LOCATION OF THE EXISTING WATER MAIN. ALL COSTS ASSOCIATED WITH THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXPLORATORY EXCAVATION (0-10' DEEP)" (TRENCH DETAIL 1)

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SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
				100% BID SET	02-18-2022		

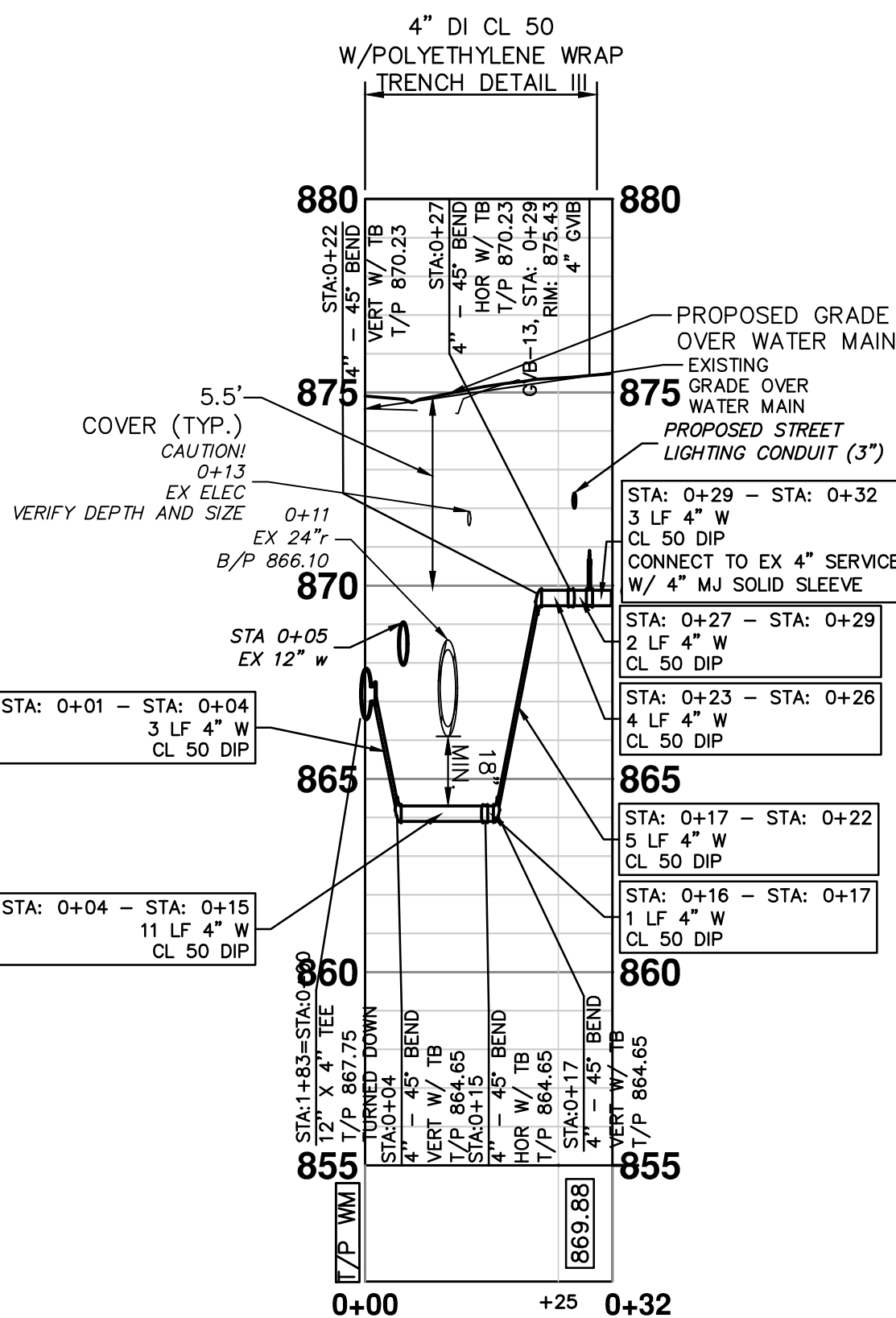
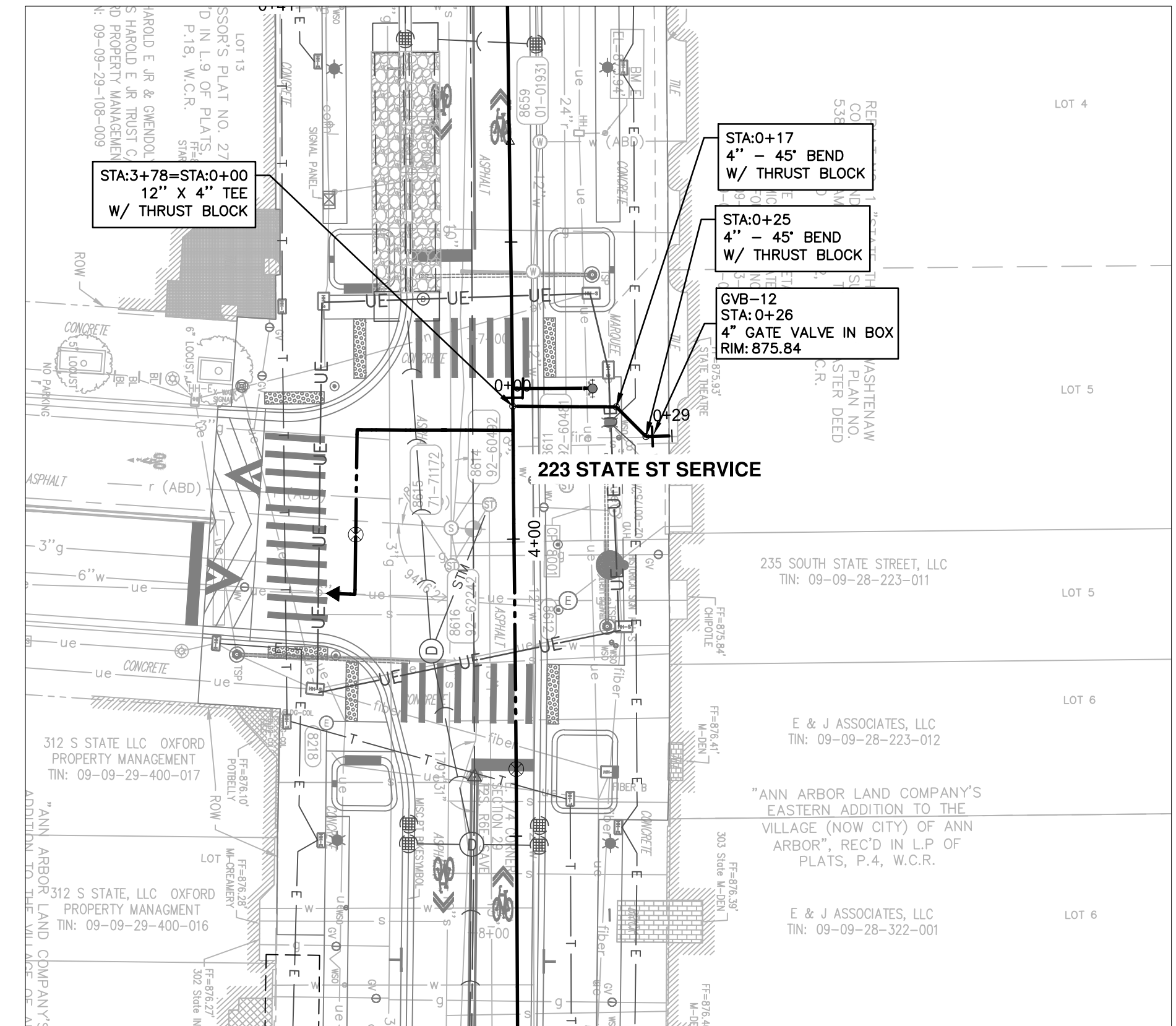
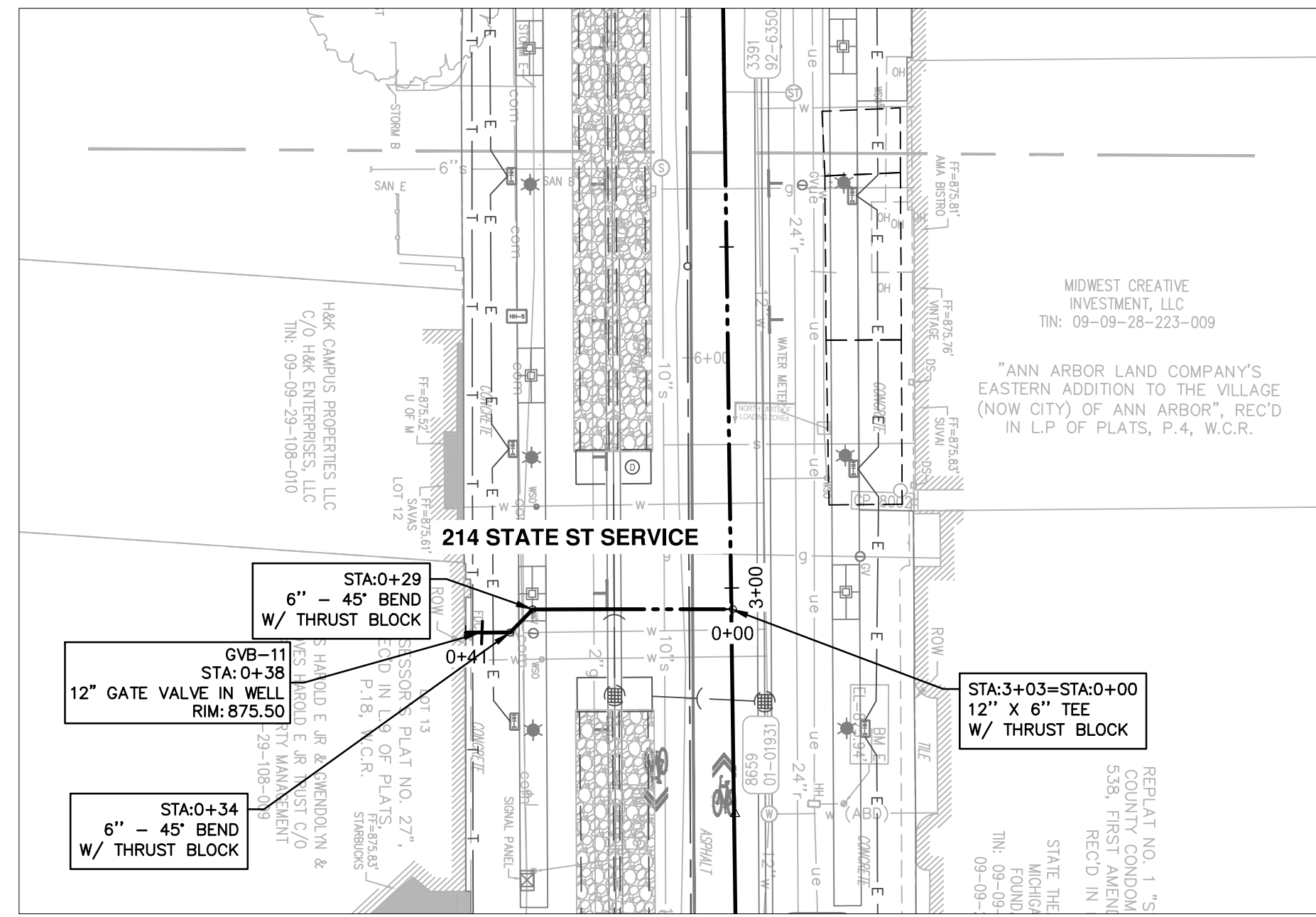
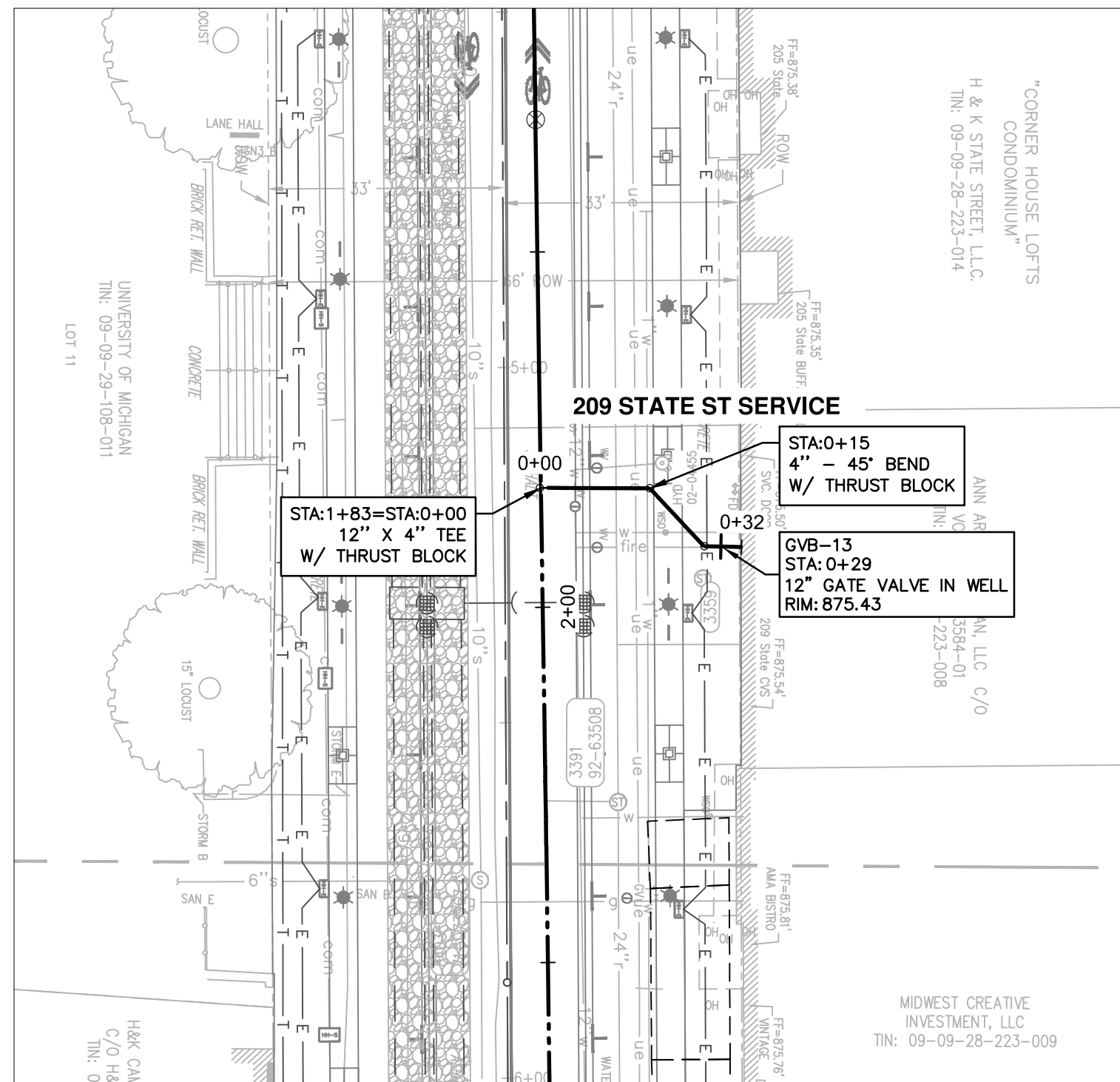
STATE ST STREETScape - CITY OF ANN ARBOR

STATE ST LATERALS 1

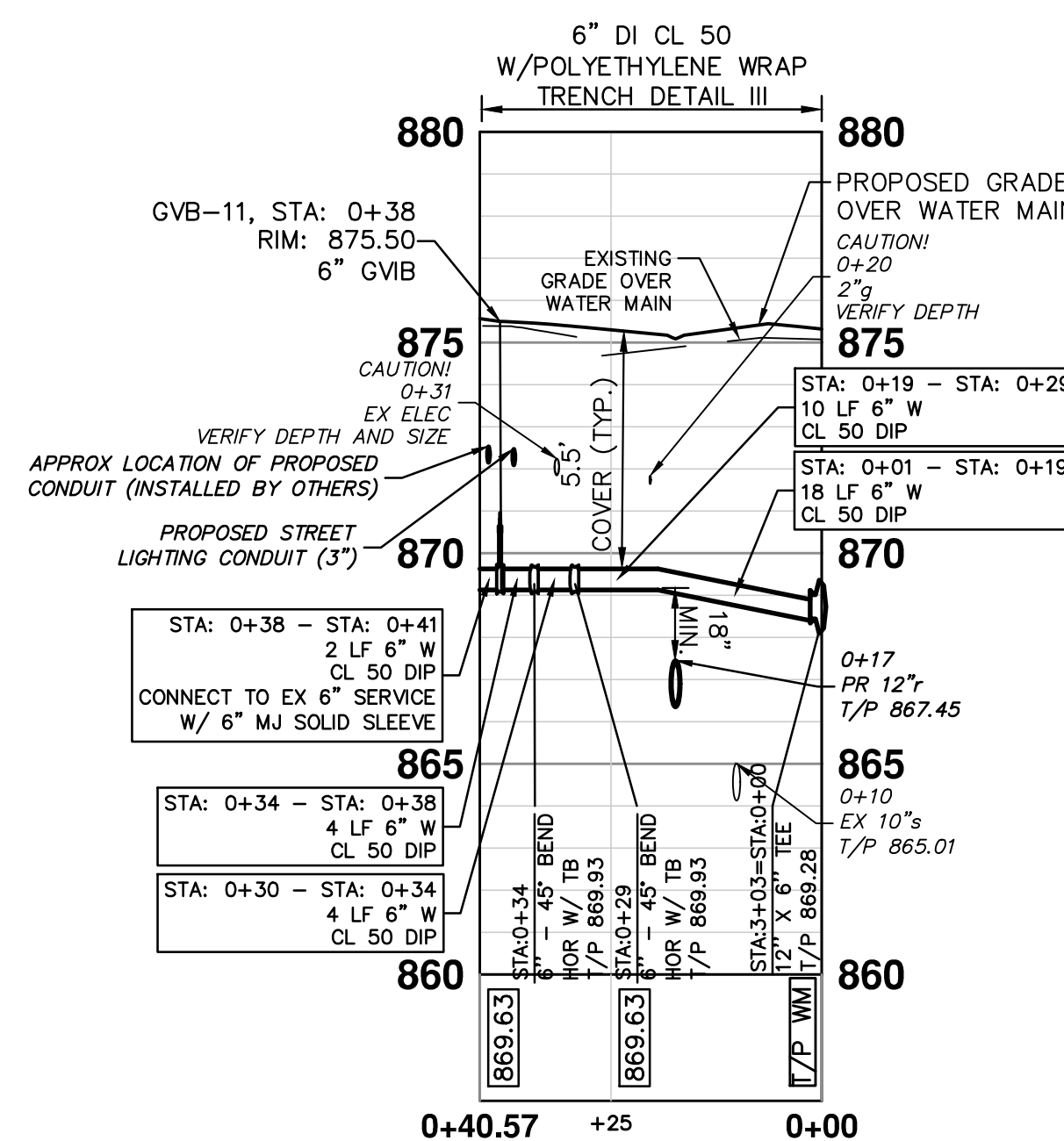
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DRAWING NO. C6.4

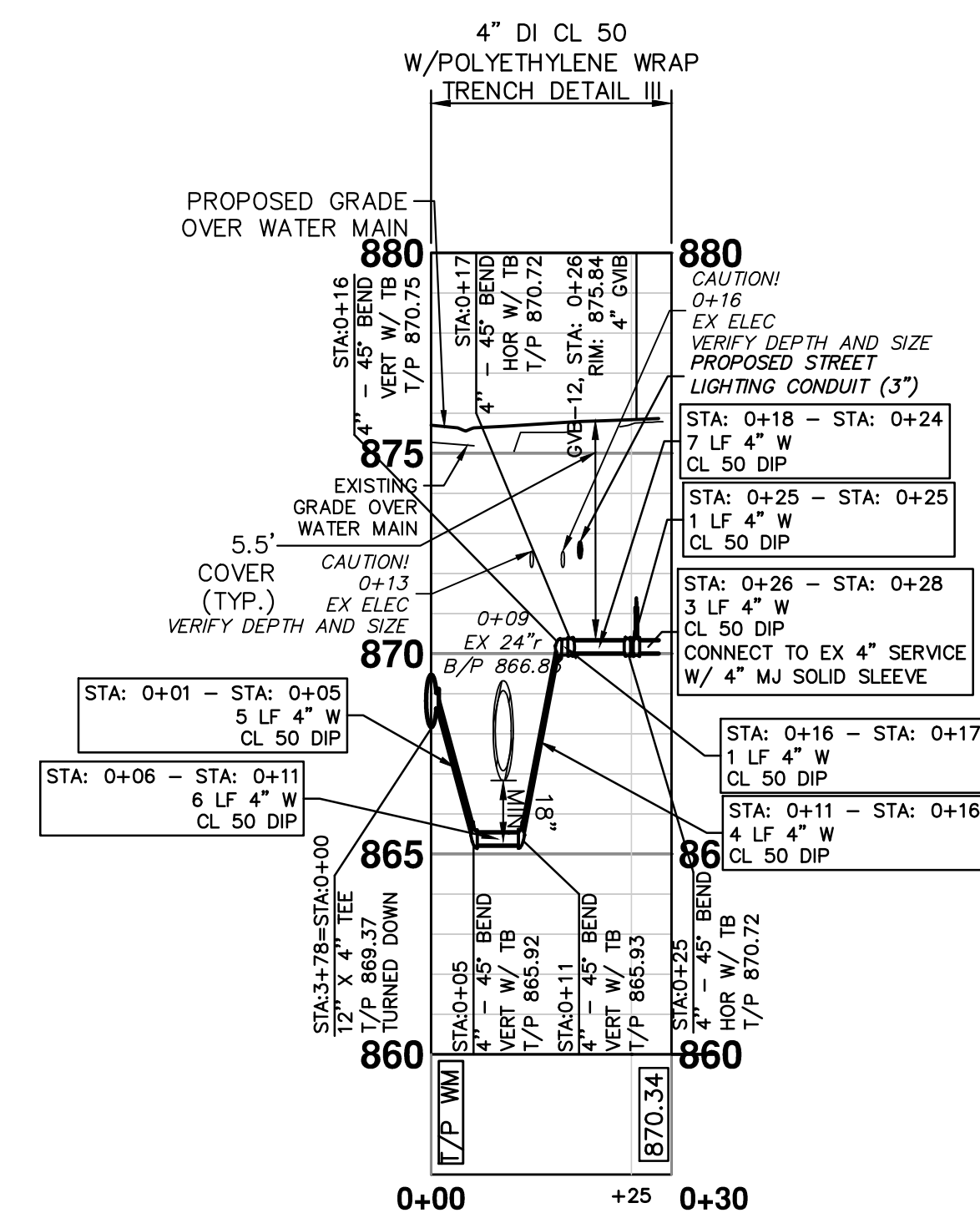
SHEET NO. OF



209 STATE ST SERVICE



214 STATE ST SERVICE



223 STATE ST SERVICE

WATER MAIN STRUCTURE TABLE				
STRUCTURE	TYPE	STATION	RIM	T/P
GVB-11	4" GVB	0+38	875.50	5.91
GVB-12	4" GVB	0+26	875.84	5.54
GVB-13	4" GVB	0+29	875.43	5.63

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STATE ST STREETScape - CITY OF ANN ARBOR

STATE ST LATERALS 2

SCALE INCH

DRAWING NO. C6.5

SHEET NO. OF

SEE ABOVE

BENCH SURVEY MARK BOOK

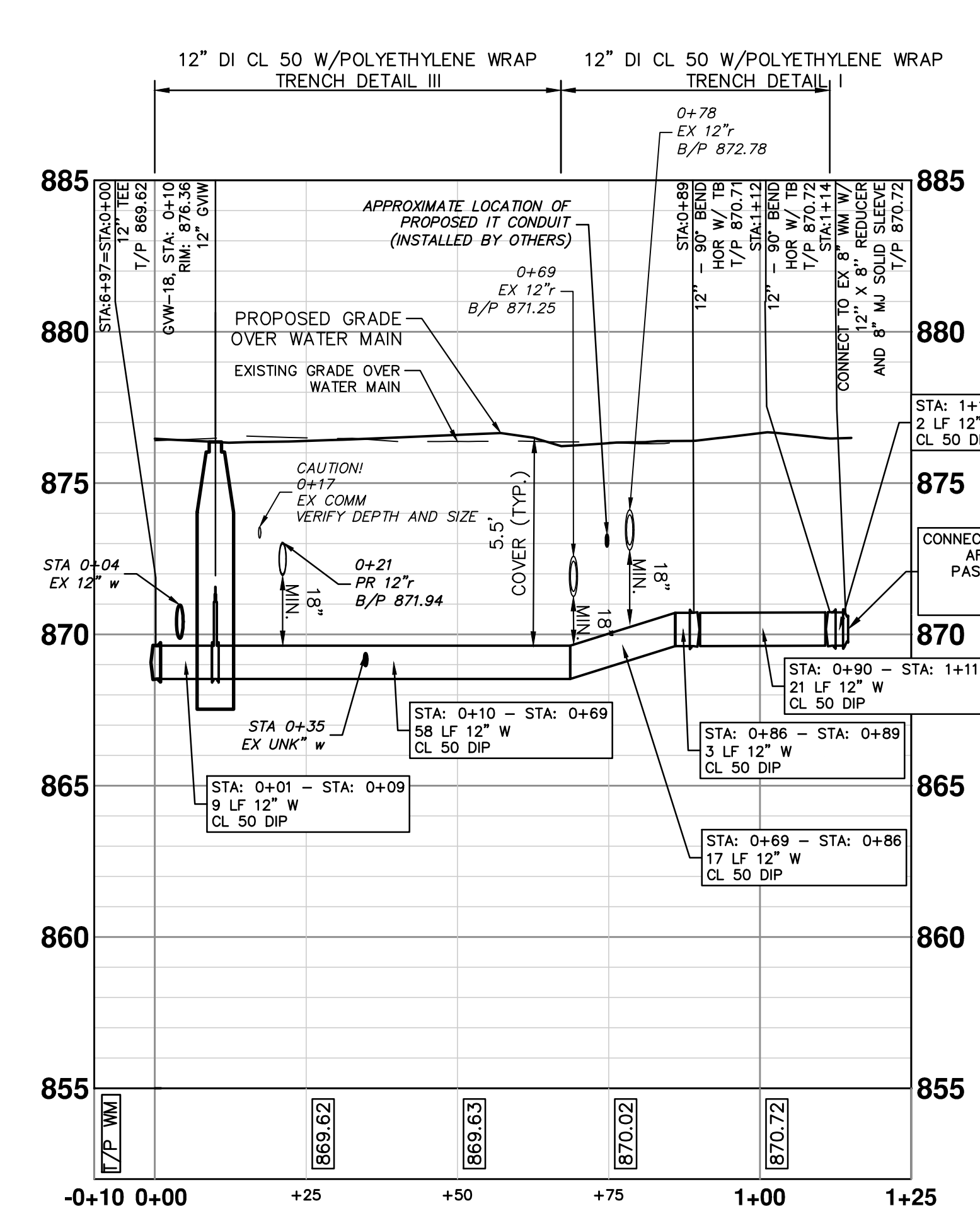
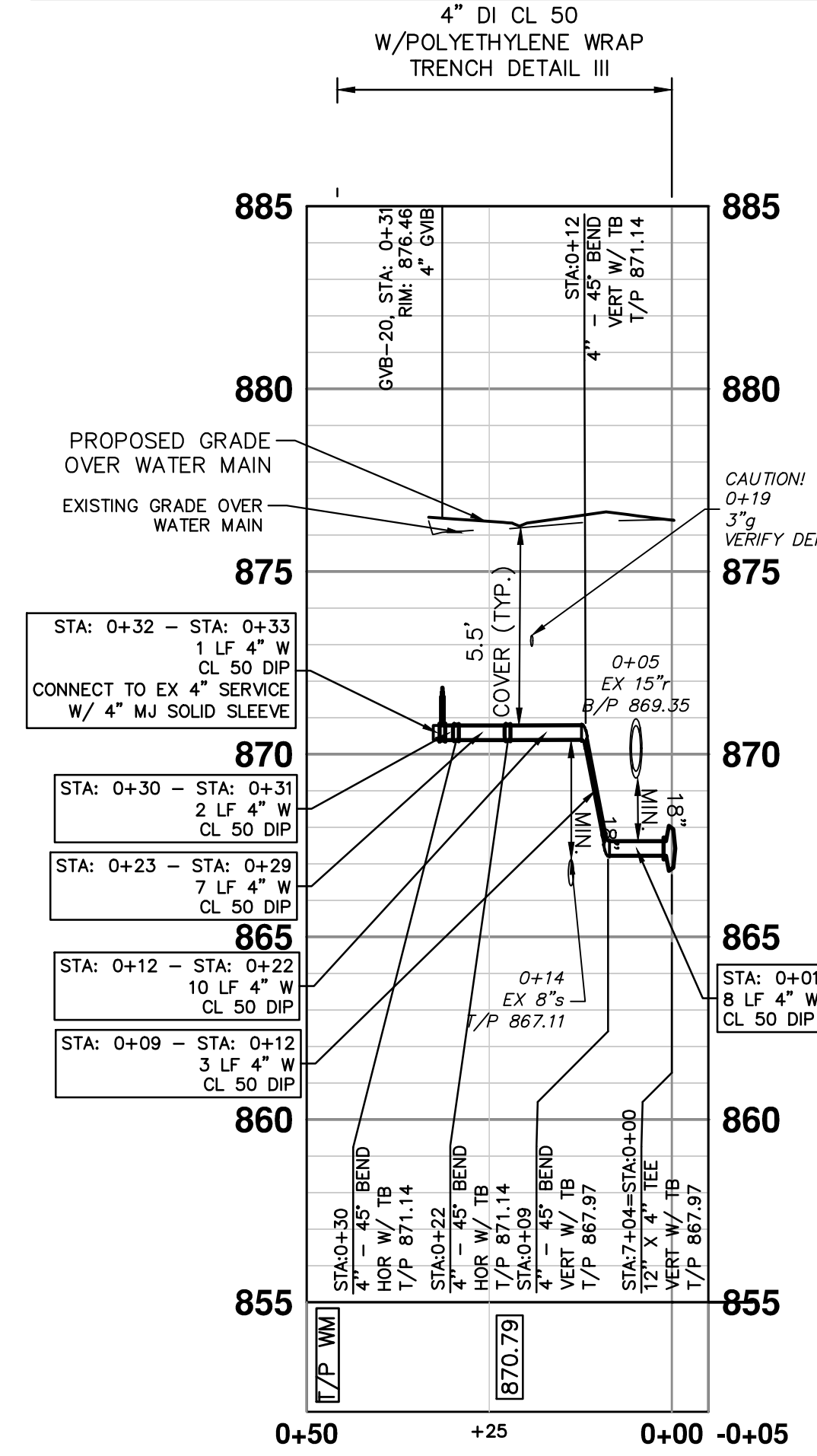
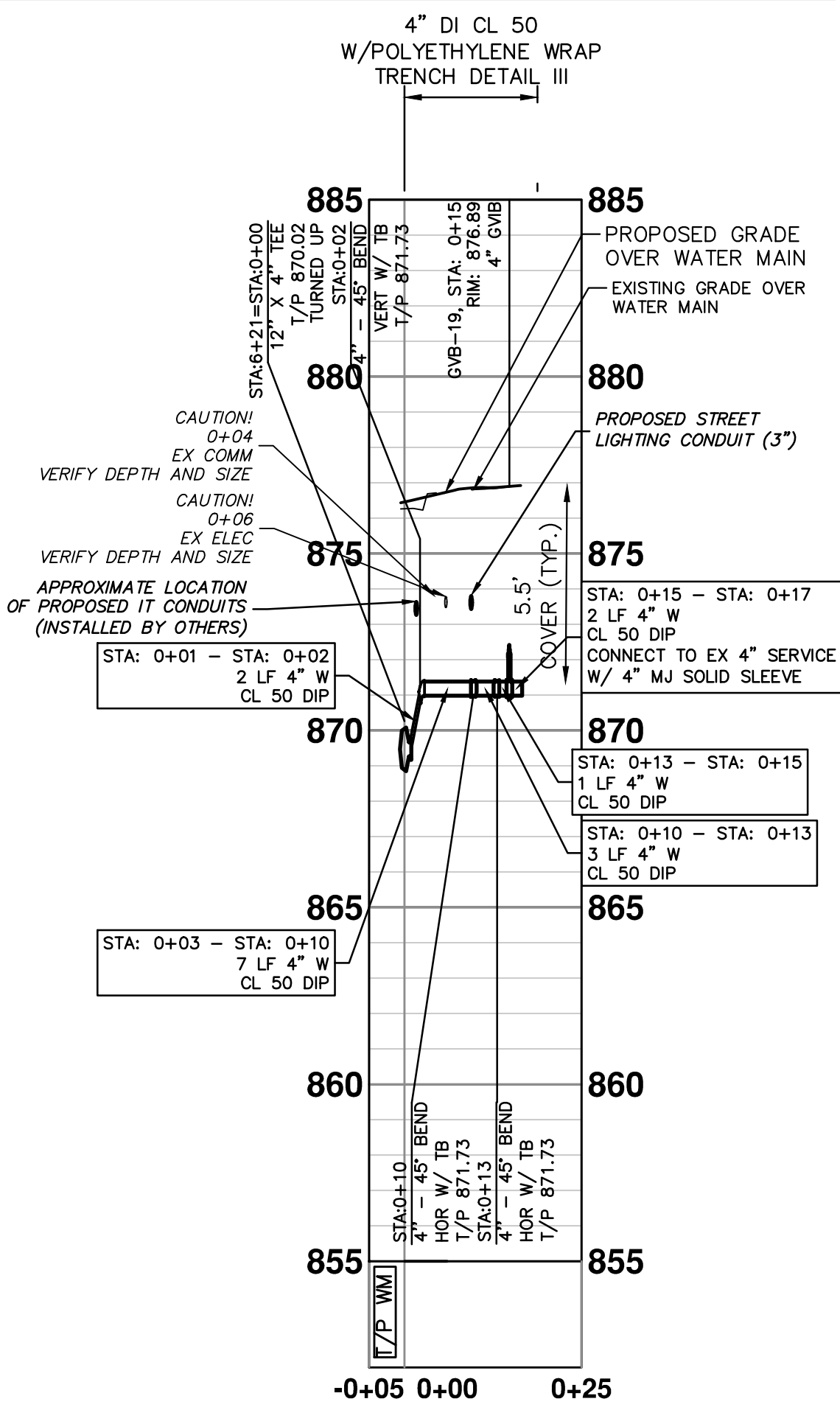
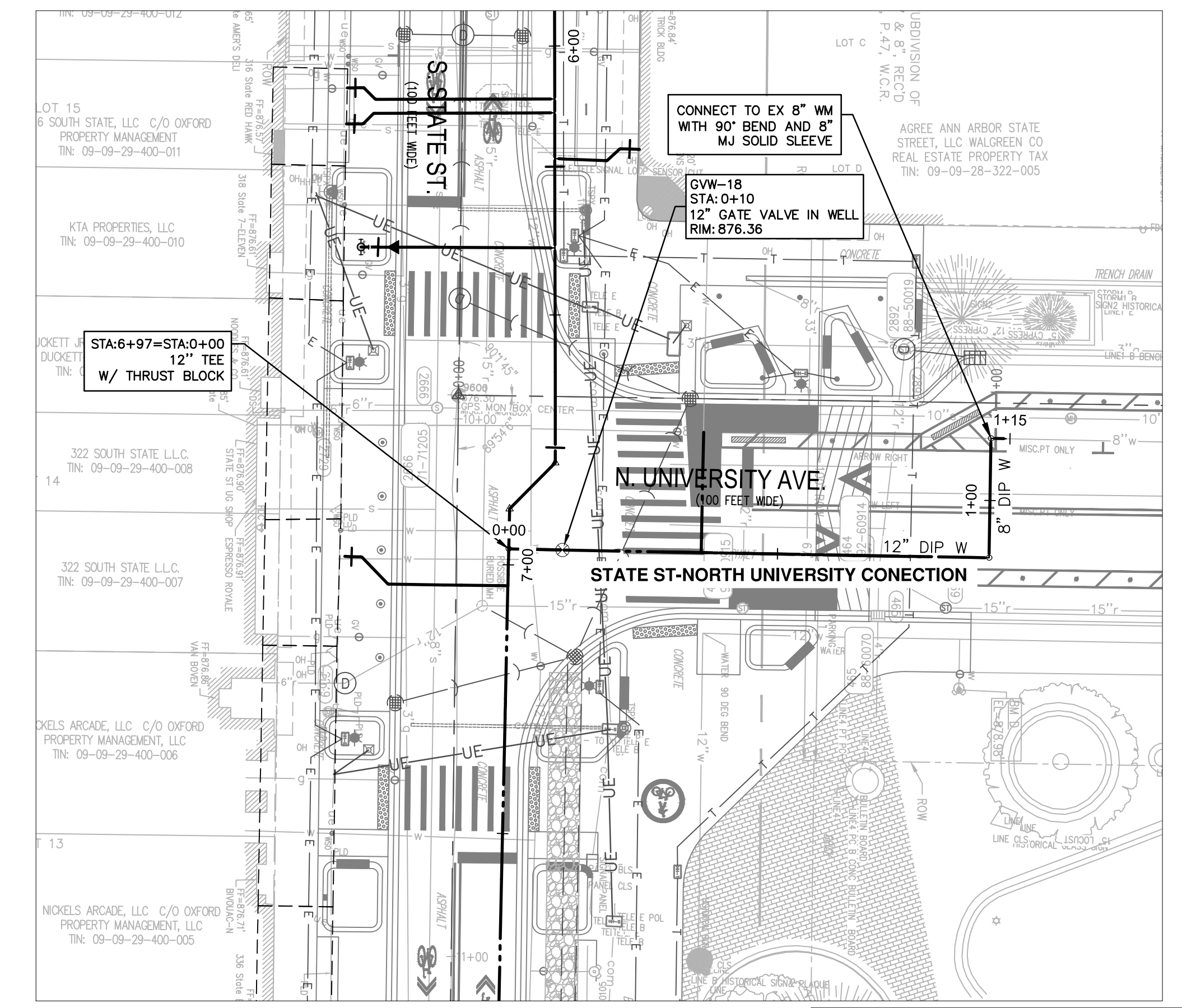
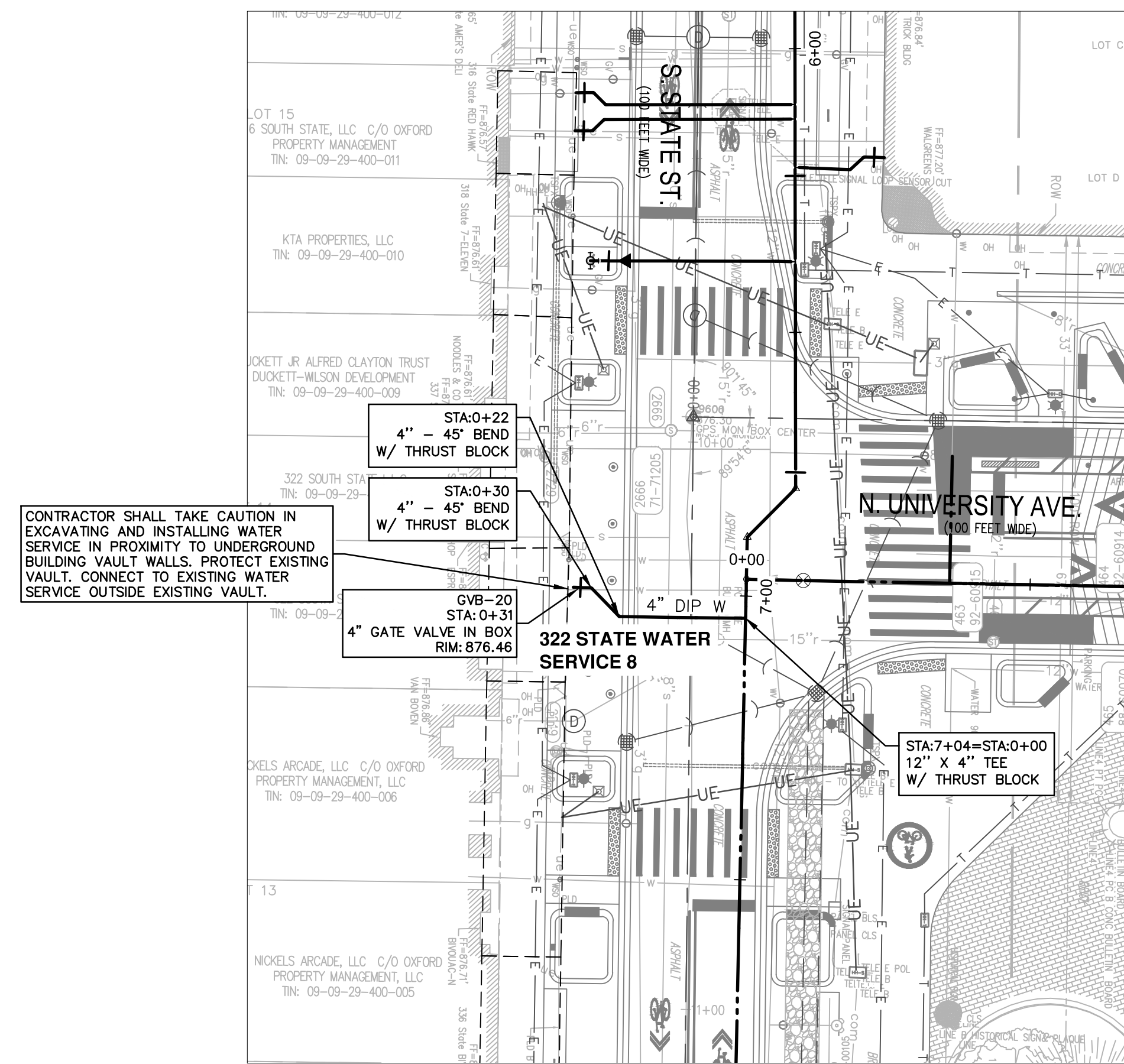
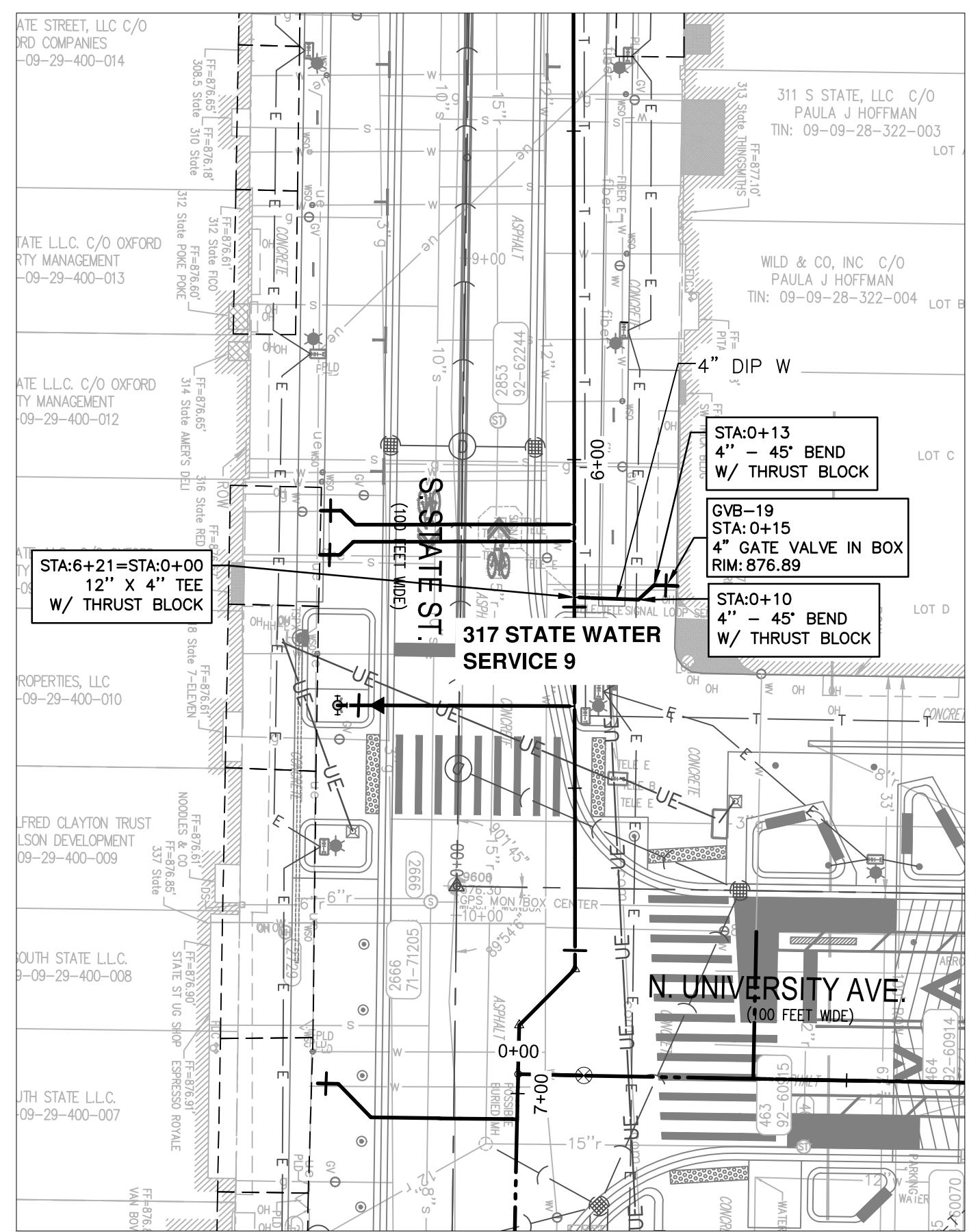
100% BID SET

02-18-2022

DR.BY

CH.BY

APPROVED BY



WATER MAIN STRUCTURE TABLE					
STRUCTURE	TYPE	STATION	RIM	WELL DEPTH	T/P
GVB-18	12" GVIW	0+10	876.36	8.33	6.79

WATER MAIN STRUCTURE TABLE				
STRUCTURE	TYPE	STATION	RIM	T/P
GVB-19	4" GVIW	0+15	876.89	5.56
GVB-20	4" GVIW	0+31	876.46	5.74

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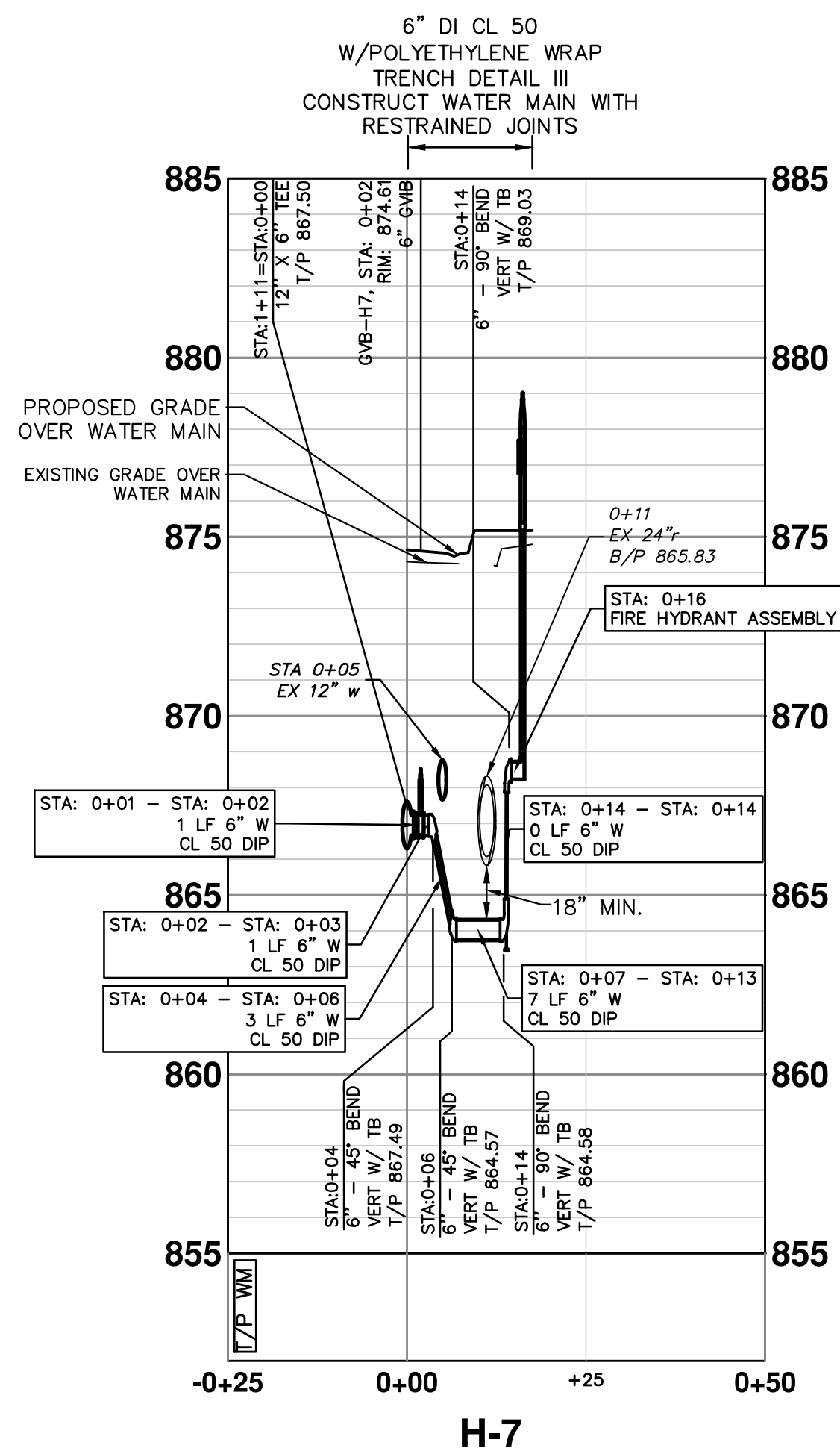
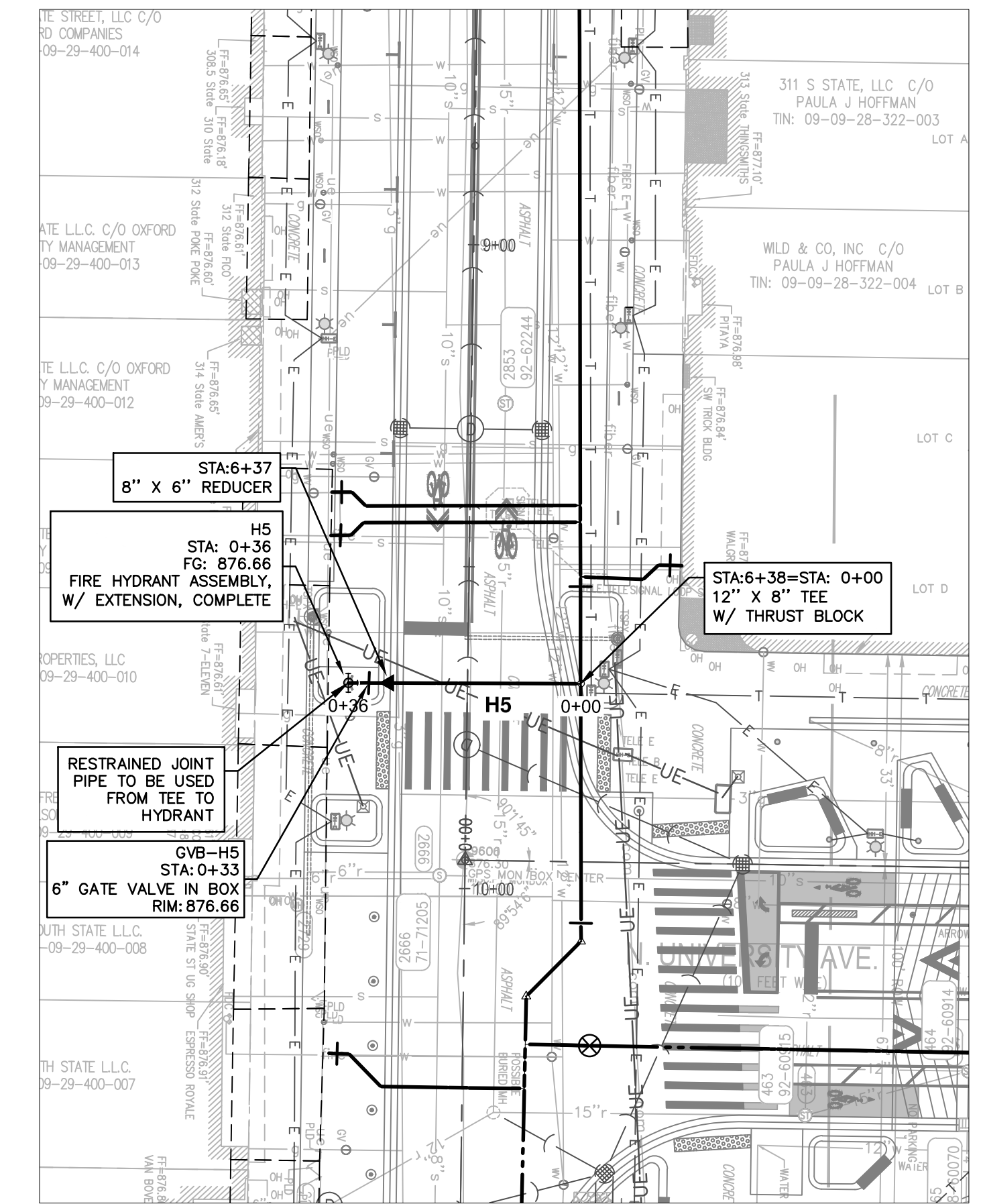
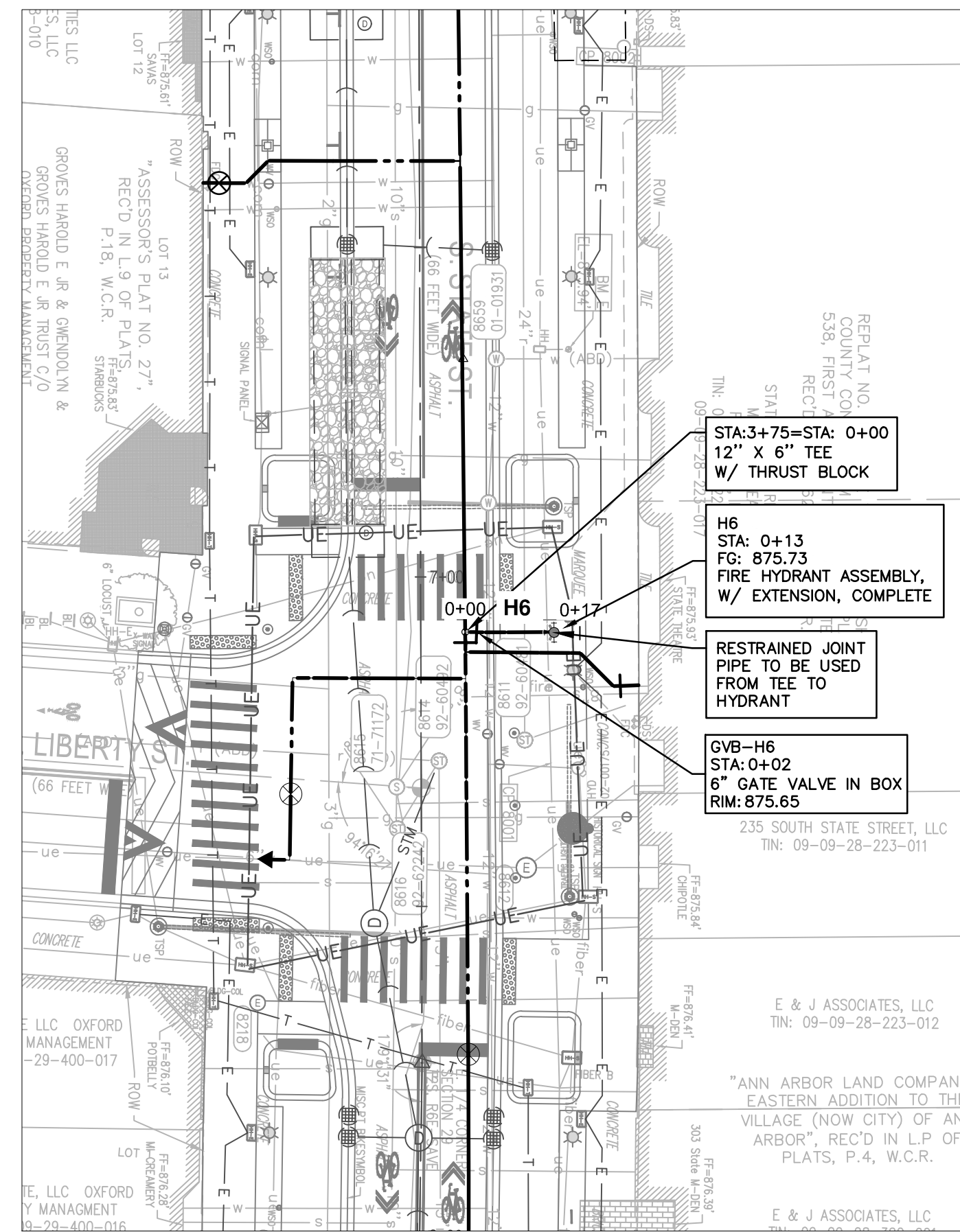
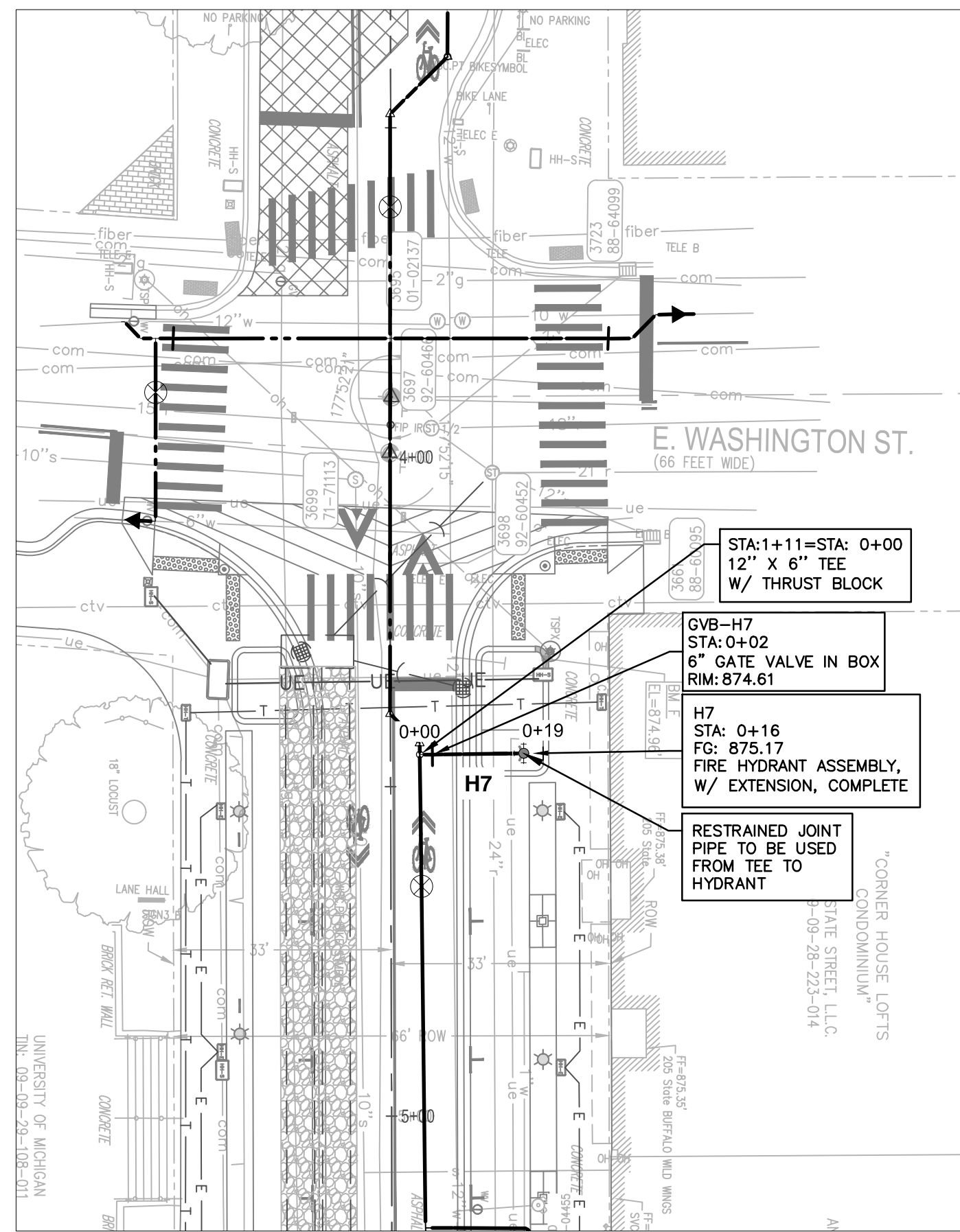
TWO WEEKS PRIOR TO THE START OF CONSTRUCTION ON STATE ST, THE CONTRACTOR SHALL PERFORM EXPLORATORY EXCAVATION AT THE INTERSECTION OF NORTH UNIVERSITY AND STATE ST AND THE EAST CONNECTION POINT OR AS DIRECTED BY THE ENGINEER TO VERIFY THE LOCATION OF THE EXISTING WATER MAIN. ALL COSTS ASSOCIATED WITH THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE ITEM OF WORK "EXPLORATORY EXCAVATION (0-10' DEEP)" (TRENCH DETAIL 1)

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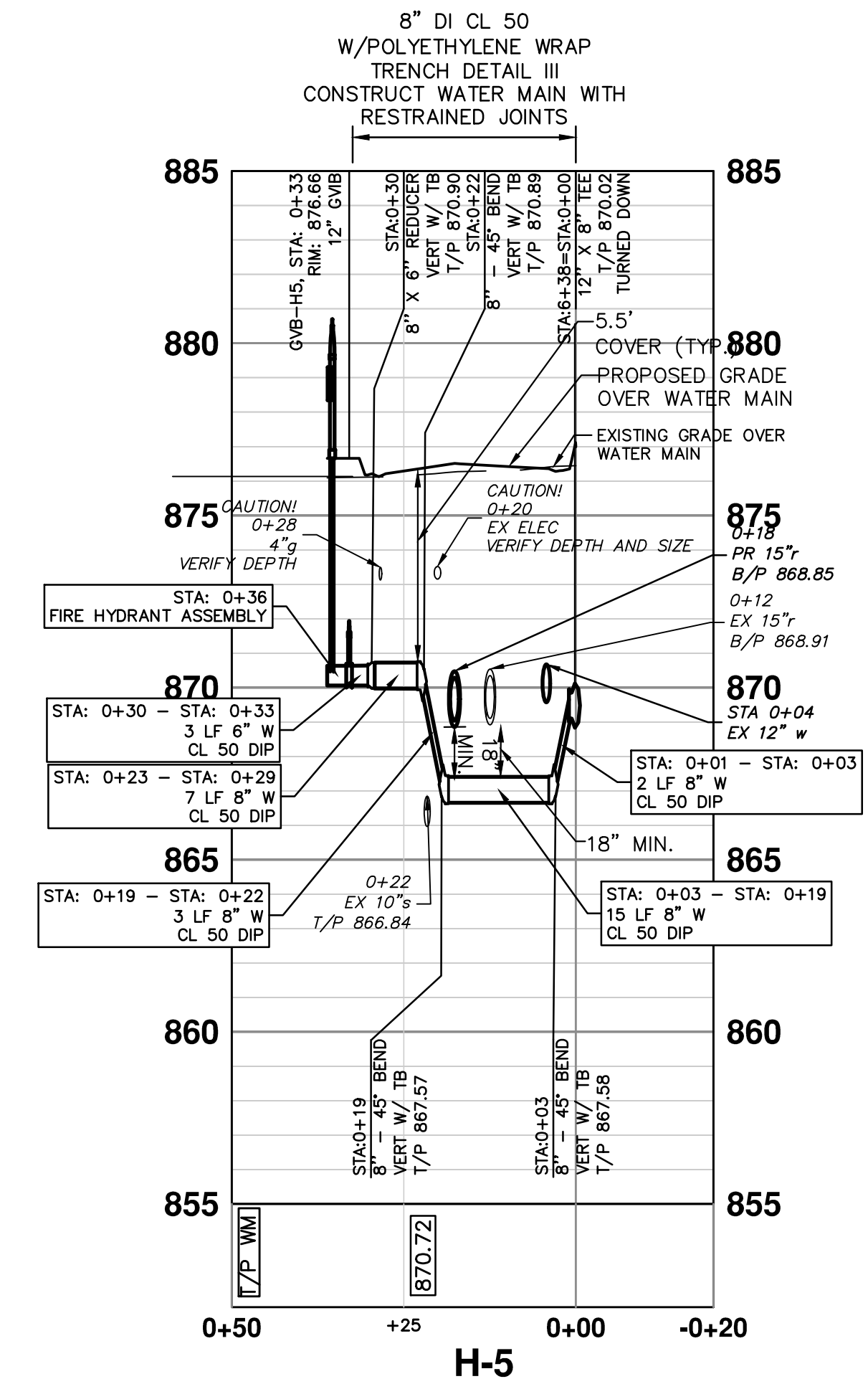
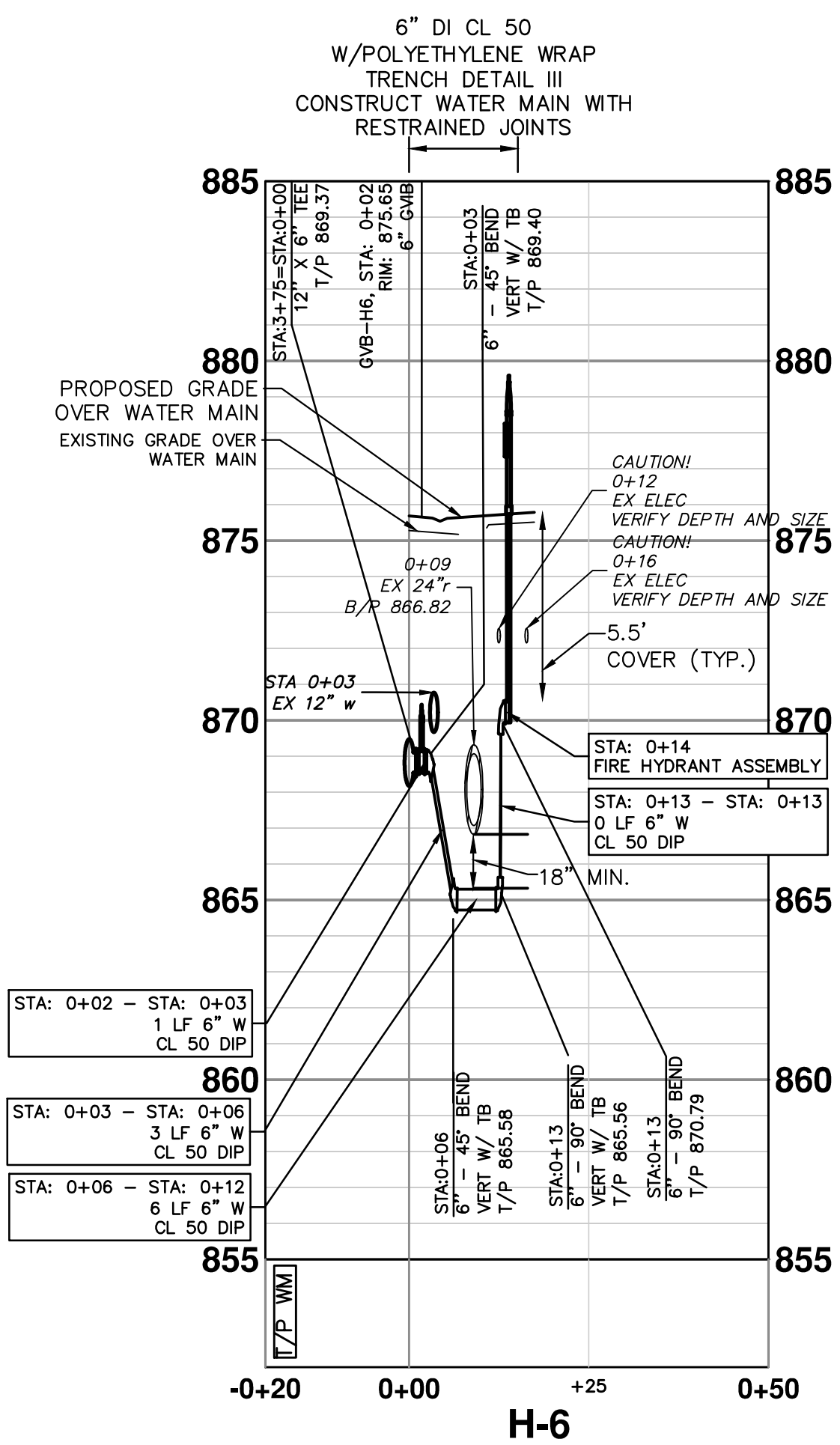
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SEE ABOVE						STATE ST STREETScape - CITY OF ANN ARBOR	
BENCH MARK						STATE ST LATERALS 4	
REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY	APPROVED BY	SCALE	INCH
	100% BID SET	02-18-2022					
DRAWING NO. C6.7						SHEET NO. ___ OF ___	



STRUCTURE	TYPE	STATION	FG	T/P
H5	HYD	0+36	876.66	5.50
H6	HYD	0+13	875.73	5.50
H7	HYD	0+16	875.17	5.50

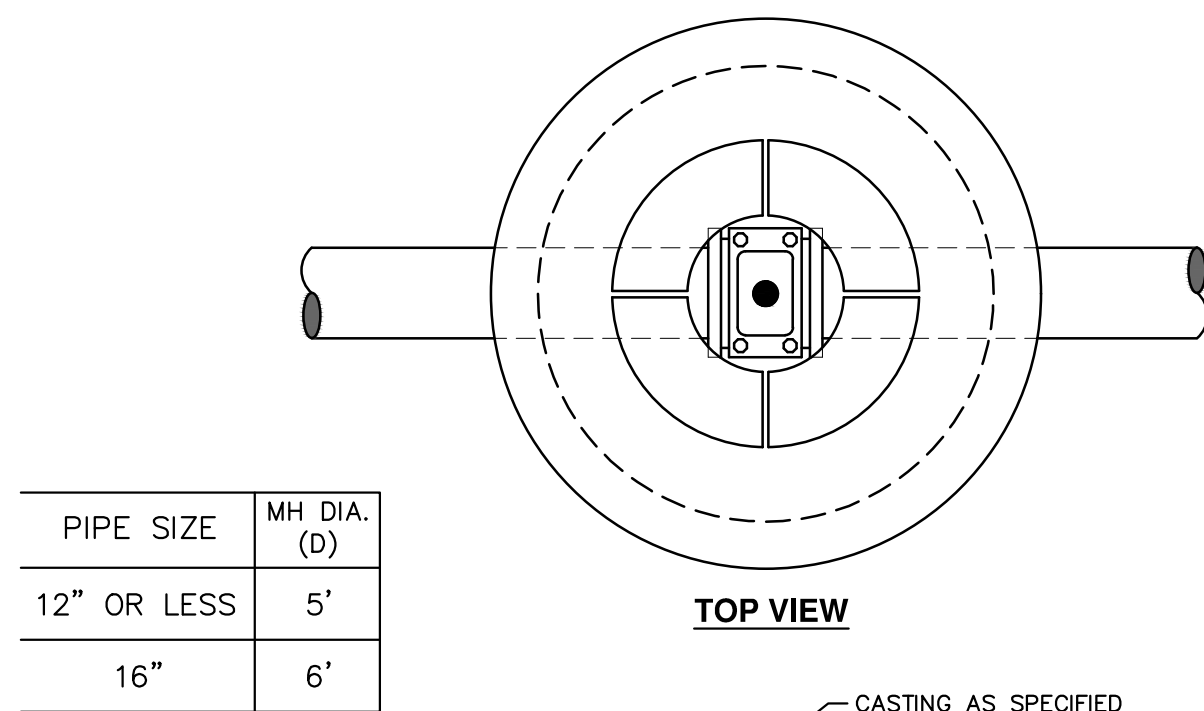
STRUCTURE	TYPE	STATION	RIM	T/P
GVB-H5	6\"/>			



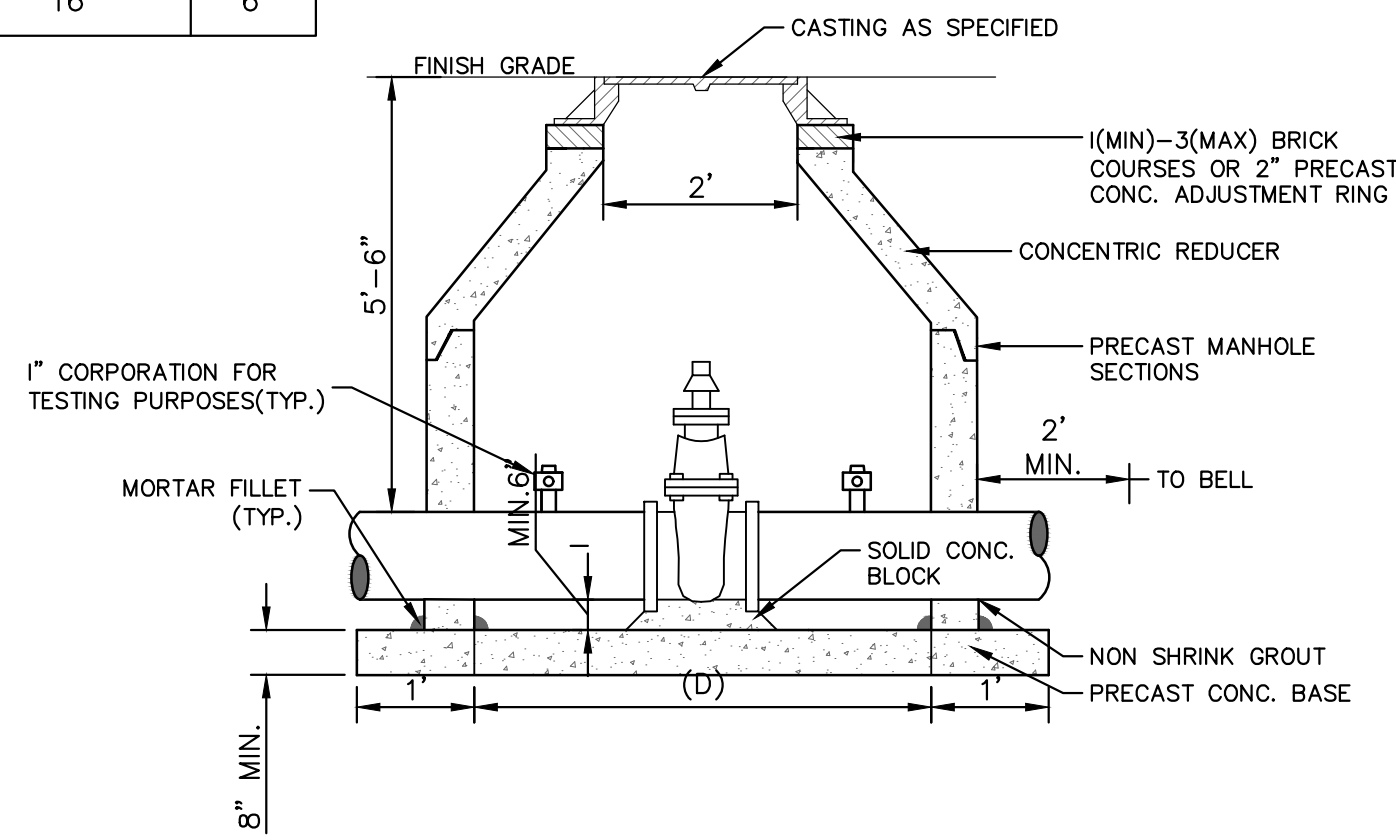
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SEE ABOVE						100% BID SET		02-18-2022		APPROVED BY _____		
BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY	STATE ST STREETScape - CITY OF ANN ARBOR					
HYDRANT LATERALS											SCALE	INCH
											DRAWING NO. C6.9	
											SHEET NO. _____ OF _____	

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PIPE SIZE	MH DIA. (D)
12" OR LESS	5'
16"	6'



- NOTES:
1. ALL LIFT HOLES AND JOINTS SHALL BE MORTARED BOTH INSIDE AND OUTSIDE
 2. ALL JOINTS SHALL BE MADE WATER TIGHT WITH RUBBER GASKET JOINTS
 3. NO STEPS ARE PERMITTED
 4. MANHOLE SECTIONS SHALL MEET ASTM C-478

GATE WELL FOR MAIN 16" & SMALLER SD-W-3
PAID FOR AS GATE VALVE-IN-WELL, 12 INCH

MINIMUM STANDARDS

THE MDOT GRADE PI OR P-NC CONCRETE AT THE FITTING FACE SHALL EXTEND TO WITHIN 2 INCHES OF THE BELL AND SHALL EXTEND FROM THE FITTING FACE A MINIMUM OF 2 FEET TO THE UNDISTURBED SOLID GROUND.

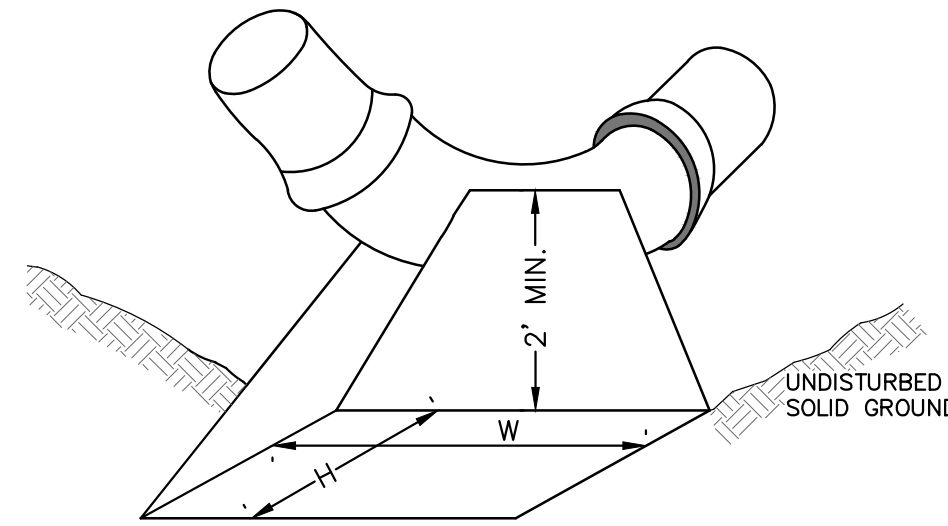
THE DIMENSIONS OF THE THRUST BLOCK AT THE FACE OF THE UNDISTURBED SOLID GROUND SHALL BE AS SHOWN IN THE TABLE BELOW.

IF THERE ISN'T SUFFICIENT SPACE FOR THE INSTALLATION OF THE THRUST BLOCK WITHOUT INTERFERENCE WITH OTHER SERVICES, ANOTHER ARRANGEMENT SATISFACTORY TO THE ENGINEER SHALL BE USED.

FITTINGS I.D.	PLUG TEE CROSS		BENDS				HYDRANT	
	W	H	90°	45°	22½°	11½°	W	H
4	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5
6	2.0	1.5	2.0	2.0	2.0	2.0	2.0	2.0
8	2.5	2.0	3.5	2.0	2.0	2.0	2.0	2.5
12	3.5	3.0	5.5	3.0	3.5	2.5	2.0	2.0
16	6.0	3.5	6.0	4.0	5.0	3.0	3.5	2.0

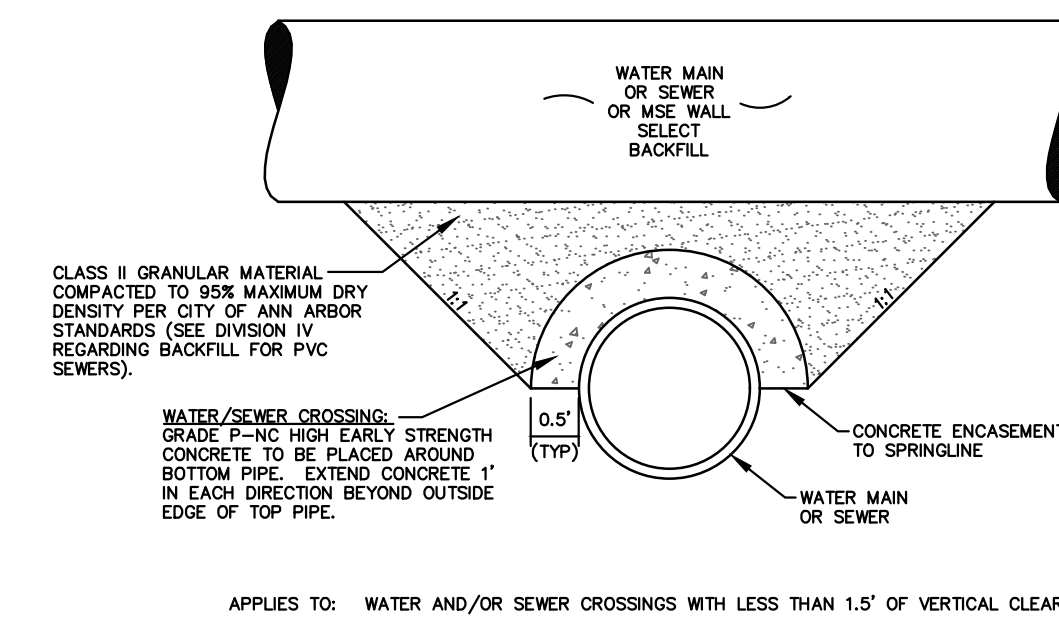
FOR FITTING SIZES LARGER THAN 16", THRUST BLOCK DIMENSIONS SHALL BE AS SPECIFIED BY ENGINEER.

W = WIDTH IN FEET
H = HEIGHT IN FEET



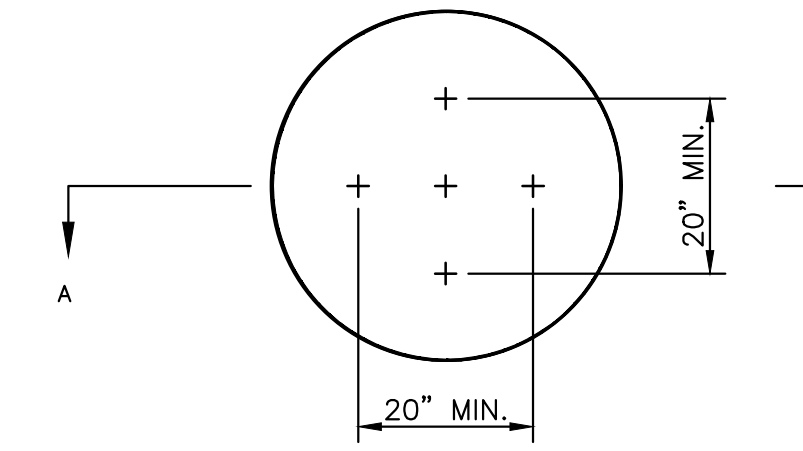
NOTE:
THESE ARE MINIMUM STANDARDS. WHERE SOIL CONDITIONS DICTATE, ADJUSTMENTS IN SIZE SHALL BE MADE AS DIRECTED BY THE PUBLIC SERVICES AREA ADMINISTRATOR.

THRUST BLOCK SD-W-2
INCLUDED IN PIPE PAY ITEM

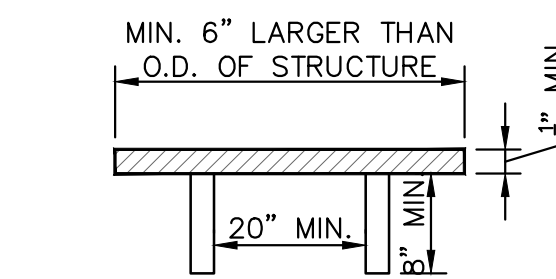


APPLIES TO: WATER AND/OR SEWER CROSSINGS WITH LESS THAN 1.5' OF VERTICAL CLEARANCE

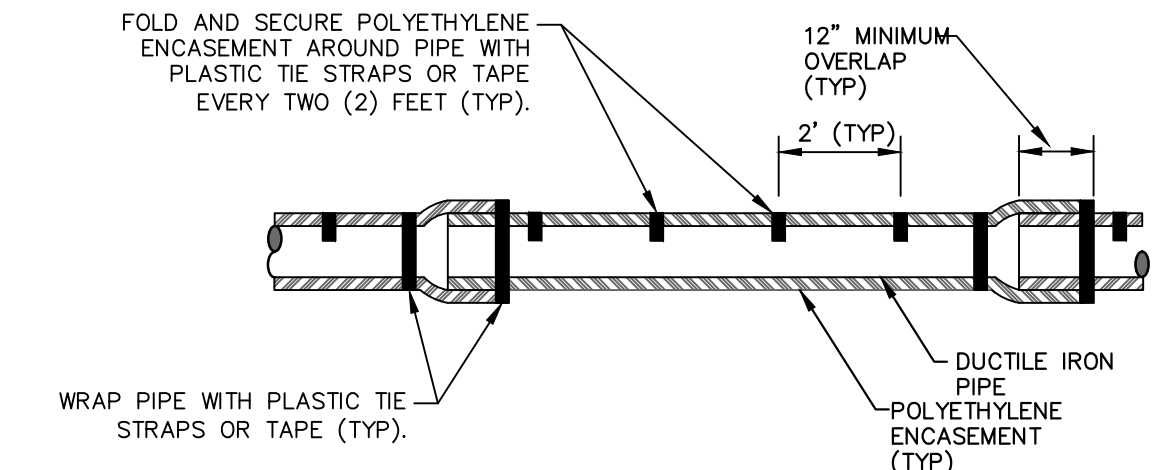
CONCRETE UTILITY SADDLE
INCLUDED IN PIPE PAY ITEM



NOTE: PLATE MAY BE CIRCULAR, SQUARE OR RECTANGULAR SECTION A - A



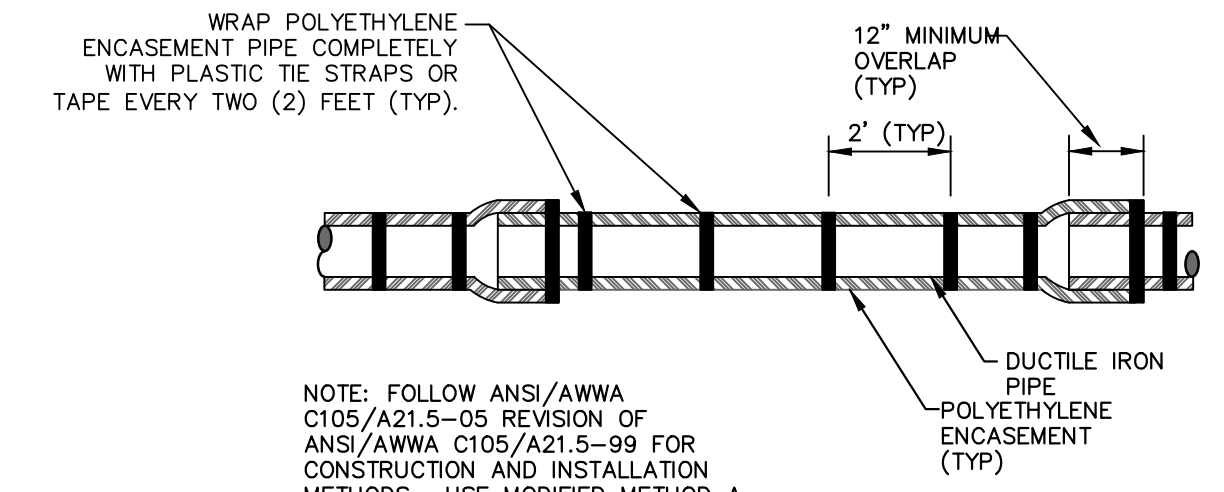
STRUCTURE PLATE SD-GU-8



NOTE: FOLLOW ANSI/AWWA C105/A21.5-05 REVISION OF ANSI/AWWA C105/A21.5-99 FOR CONSTRUCTION AND INSTALLATION METHODS. USE MODIFIED METHOD A

APPLIES TO: POLYETHYLENE WRAPPED D.I. WATERMAIN SEE PLANS FOR LOCATIONS

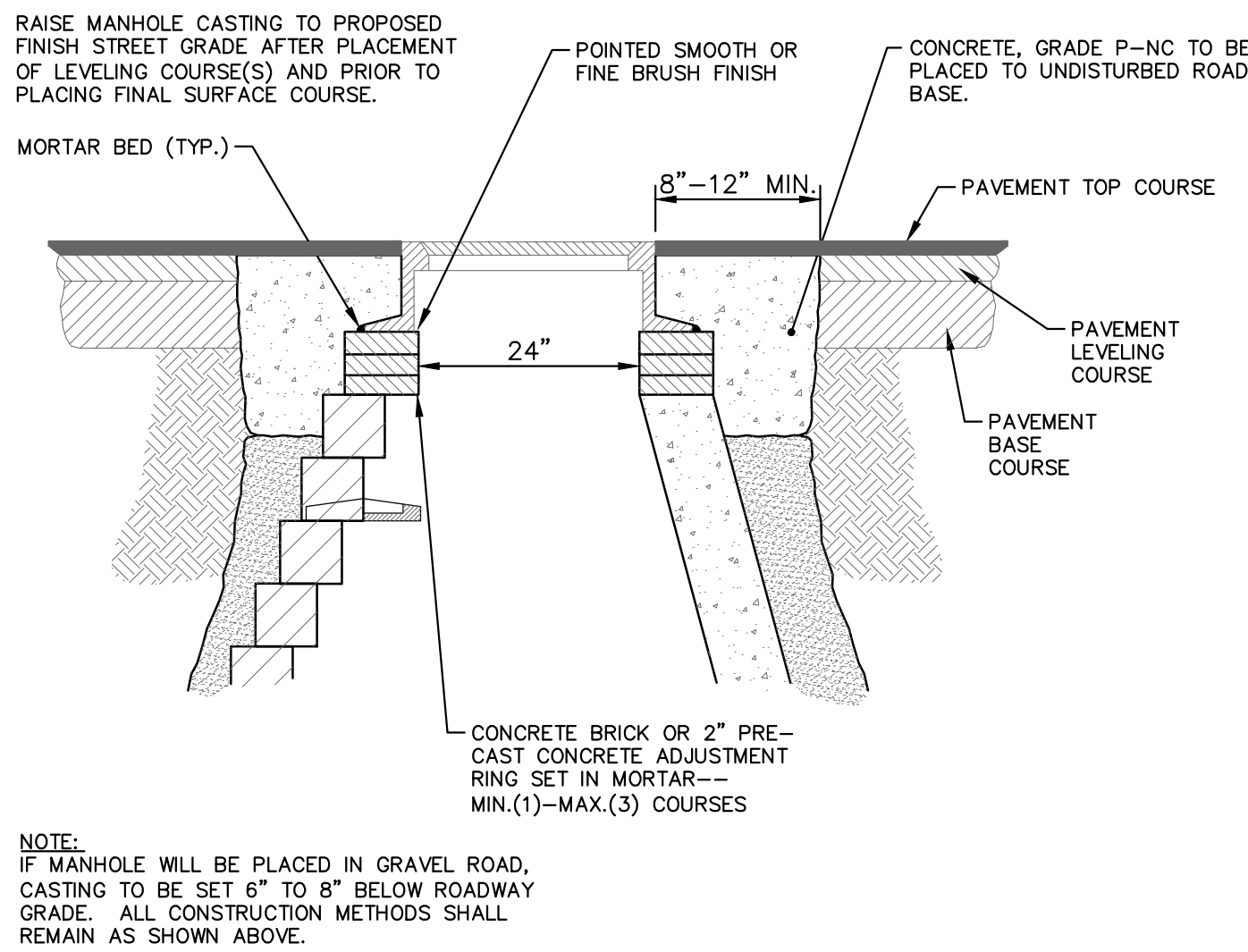
POLYETHYLENE ENCASUREMENT (DRY INSTALLATION)



NOTE: FOLLOW ANSI/AWWA C105/A21.5-05 REVISION OF ANSI/AWWA C105/A21.5-99 FOR CONSTRUCTION AND INSTALLATION METHODS. USE MODIFIED METHOD A

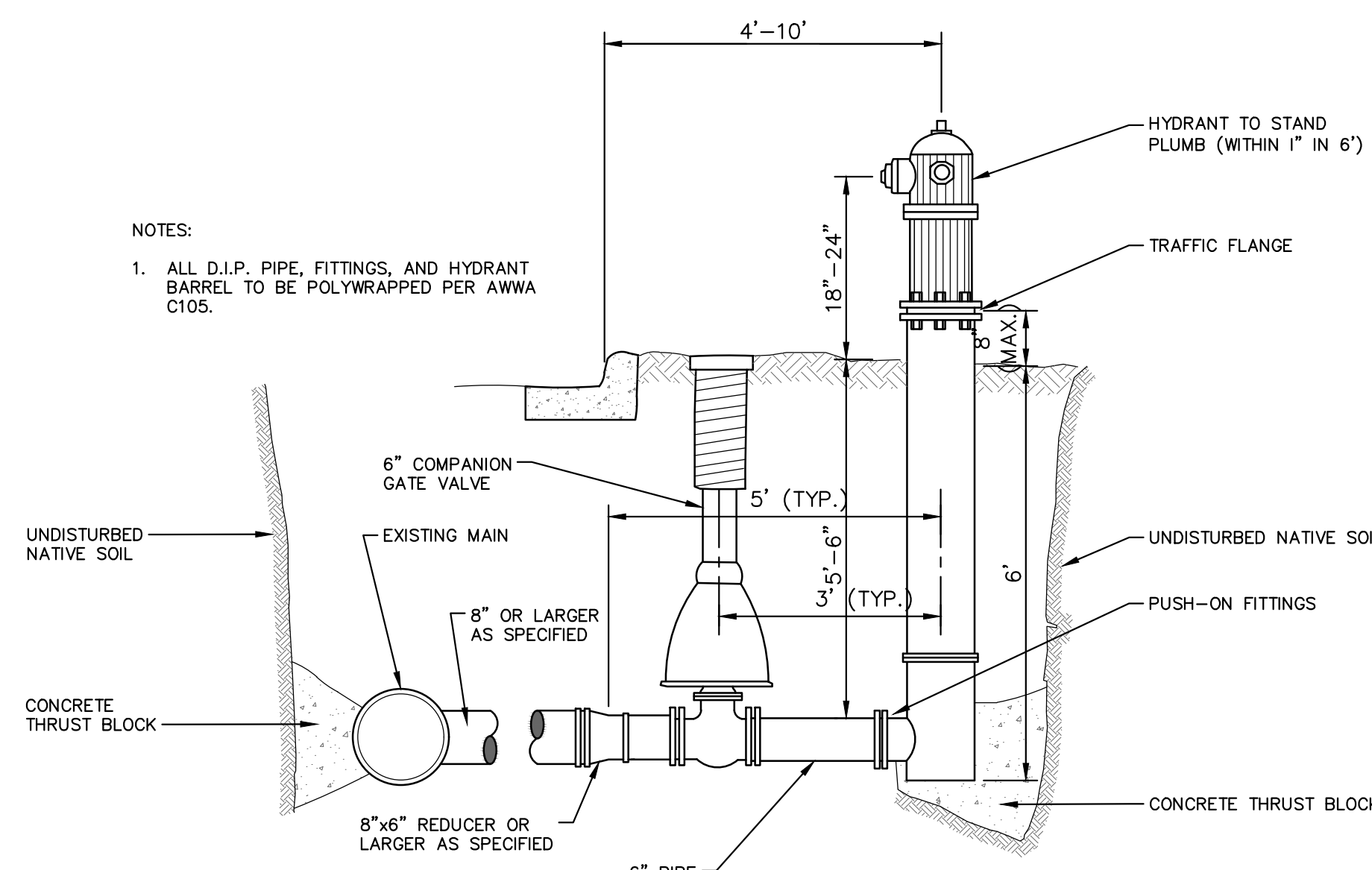
APPLIES TO: POLYETHYLENE WRAPPED D.I. WATERMAIN SEE PLANS FOR LOCATIONS

POLYETHYLENE ENCASUREMENT (WET INSTALLATION)
INCLUDED IN PIPE PAY ITEM



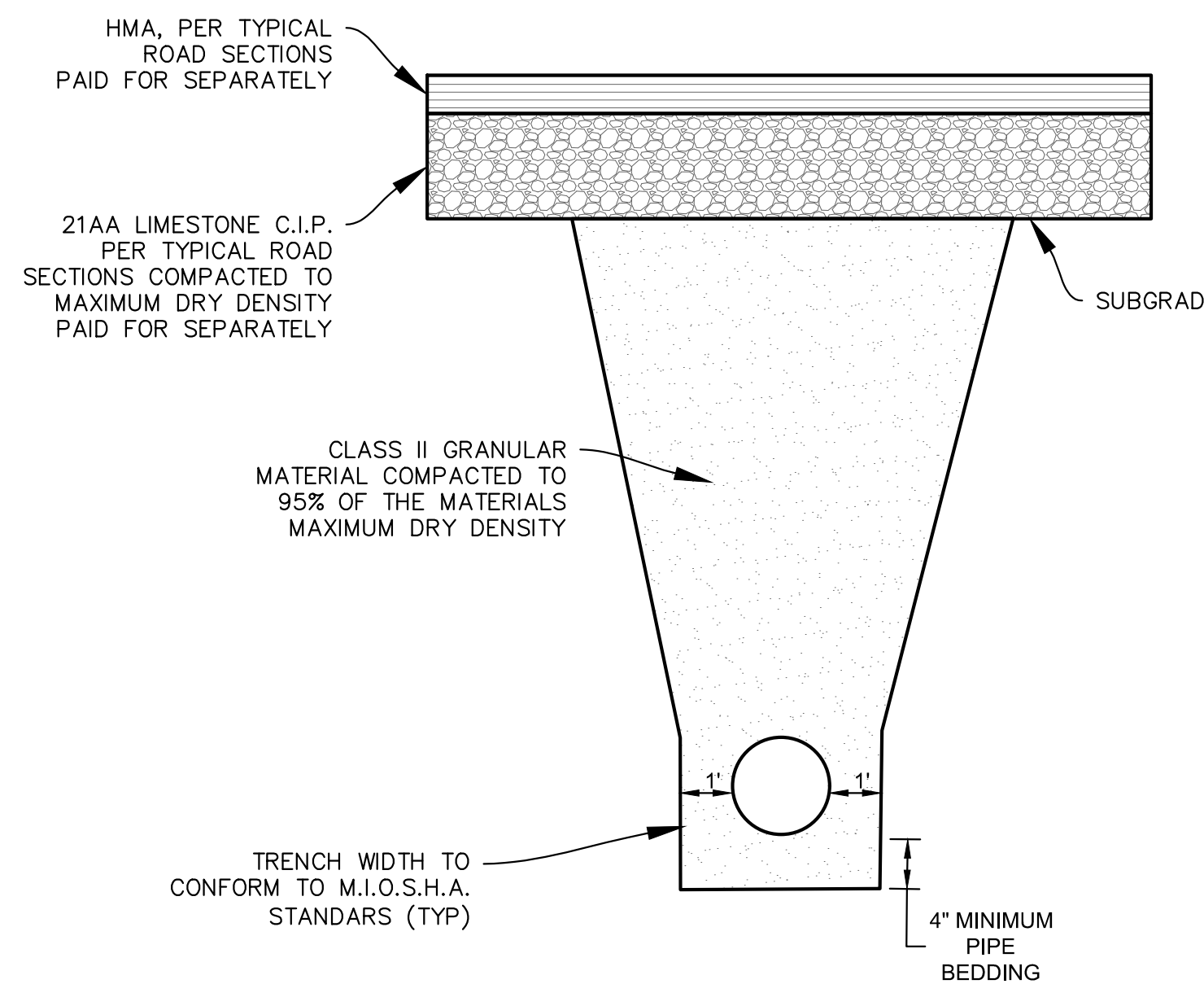
NOTE:
IF MANHOLE WILL BE PLACED IN GRAVEL ROAD, CASTING TO BE SET 6" TO 8" BELOW ROADWAY GRADE. ALL CONSTRUCTION METHODS SHALL REMAIN AS SHOWN ABOVE.

MANHOLE CASTING ADJUSTMENT SD-GU-6
PAID FOR AS ADJUST STRUCTURE COVER

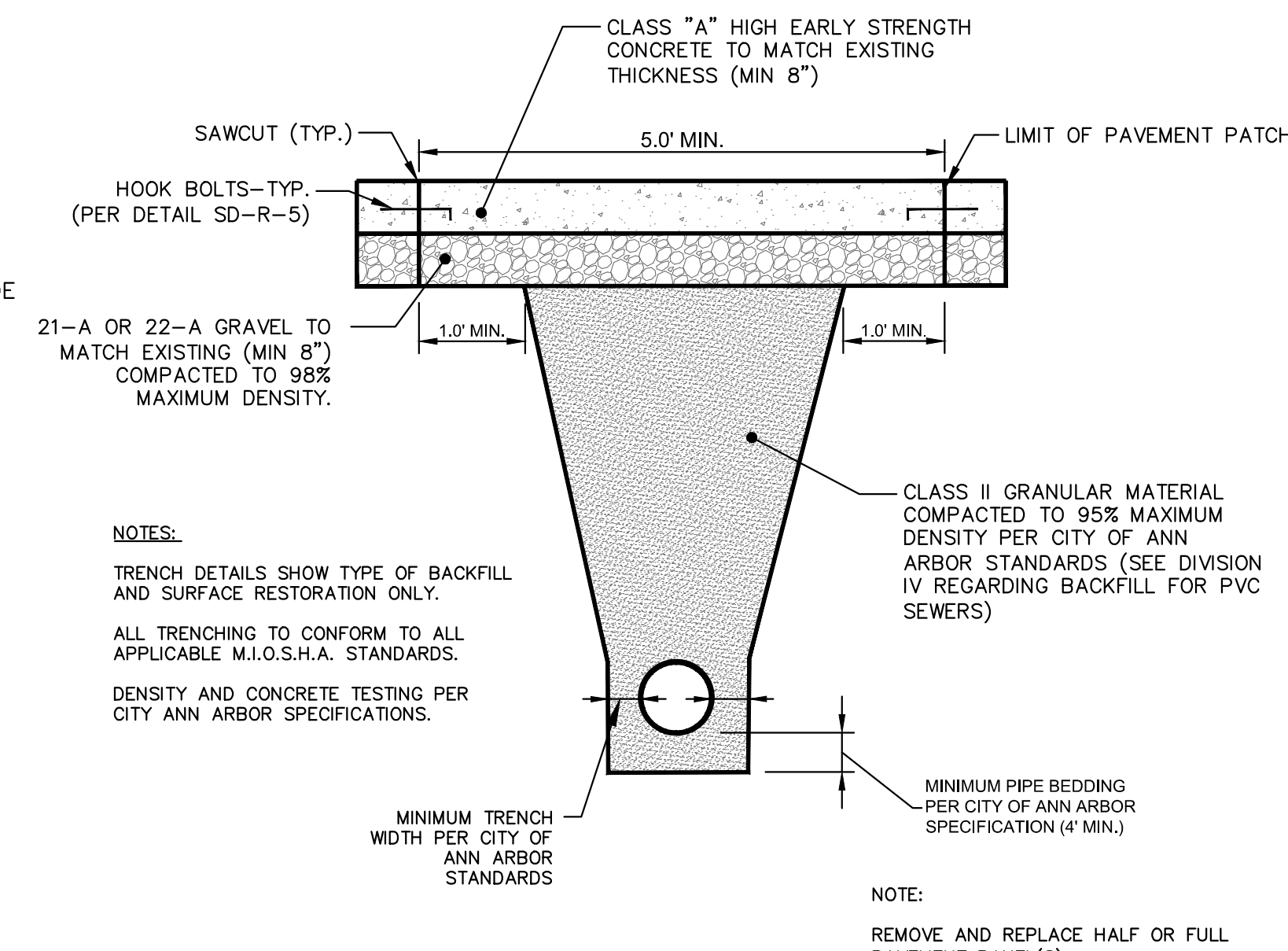


NOTES:
1. ALL D.I.P. PIPE, FITTINGS, AND HYDRANT BARREL TO BE POLYWRAPPED PER AWWA C105.

FIRE HYDRANT ASSEMBLY
PAID FOR AS FIRE HYDRANT ASSY, W/EXTENSIONS, COMPLETE



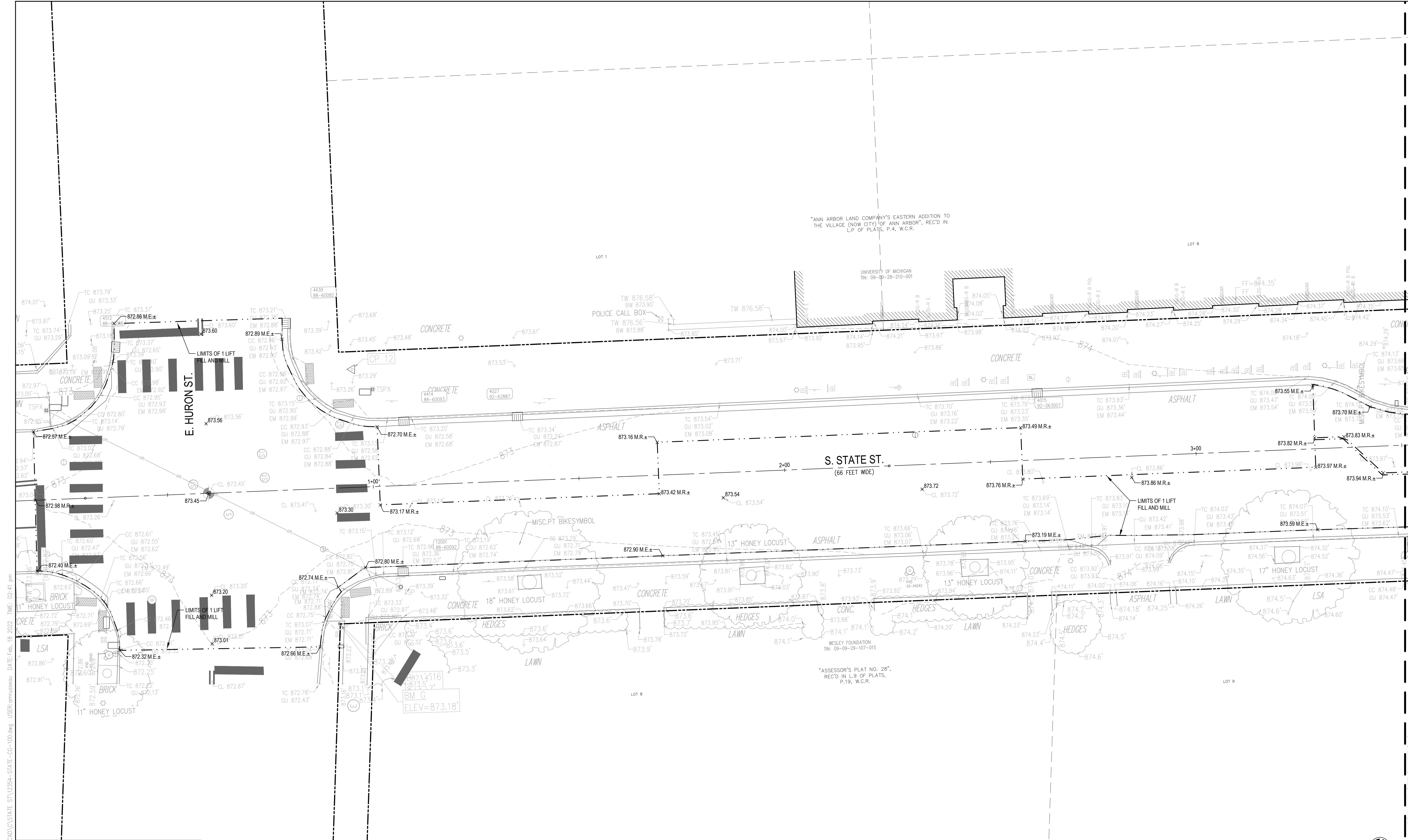
TRENCH DETAIL I
APPLIES TO WATERMAIN AND STORM SEWER UNDER ROADBED OR WITHIN INFLUENCE OF ROADBED - SEE PLANS FOR LOCATIONS



NOTES:
TRENCH DETAILS SHOW TYPE OF BACKFILL AND SURFACE RESTORATION ONLY.
ALL TRENCHING TO CONFORM TO ALL APPLICABLE M.I.O.S.H.A. STANDARDS.
DENSITY AND CONCRETE TESTING PER CITY ANN ARBOR SPECIFICATIONS.

UTILITY TRENCH-TYPE III SD-TD-3
(UNDER CONCRETE PAVEMENT)

STATE ST STREETScape - CITY OF ANN ARBOR						
WATER MAIN DETAILS						
SCALE	INCH					
	[Scale bar showing 0 to 1 inch]					
DRAWING NO.	C6.10					
SHEET NO.	OF					
SEE ABOVE						
BENCH MARK	SURVEY BOOK	100% BID SET	02-18-2022	DR.BY	CH.BY	APPROVED BY
REV. NO.	DESCRIPTION	DATE	DR.BY	CH.BY		



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LEGEND	
---865---	EXISTING MAJOR CONTOUR
---864---	EXISTING MINOR CONTOUR
861.50 x	EXISTING SPOT ELEVATION
---866.0---	PROPOSED MAJOR CONTOUR (2 FOOT INTERVAL)
---864.5---	PROPOSED MINOR CONTOUR (0.5 FOOT INTERVAL)
- - - - -	GRADING LIMITS
- - - - -	GRADE BREAK LINE
2.5%	DRAINAGE SLOPE
- - - - -	LIMITS OF 1 LIFT FILL AND MILL
861.50	PROPOSED SPOT ELEVATION
861.50 M.E.	APPROX. SPOT ELEVATION: MATCH EXISTING GRADE
861.50 M.R.	APPROX. SPOT ELEVATION: MATCH EXISTING GRADE & CROSS SLOPE OF ROADWAY
RIM 861.50	STRUCTURE RIM ELEVATION
T/C 861.50	TOP OF CURB ELEVATION
B/C 861.50	BOTTOM OF PLANTER CURB
E/P 861.50	EDGE OF PAVEMENT ELEVATION
HP 861.50	HIGH POINT ELEVATION
LP 861.50	LOW POINT ELEVATION
[Shaded Box]	TEMPORARY CONSTRUCTION PHASING RAMP

SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
			100% BID SET		02-18-2022		

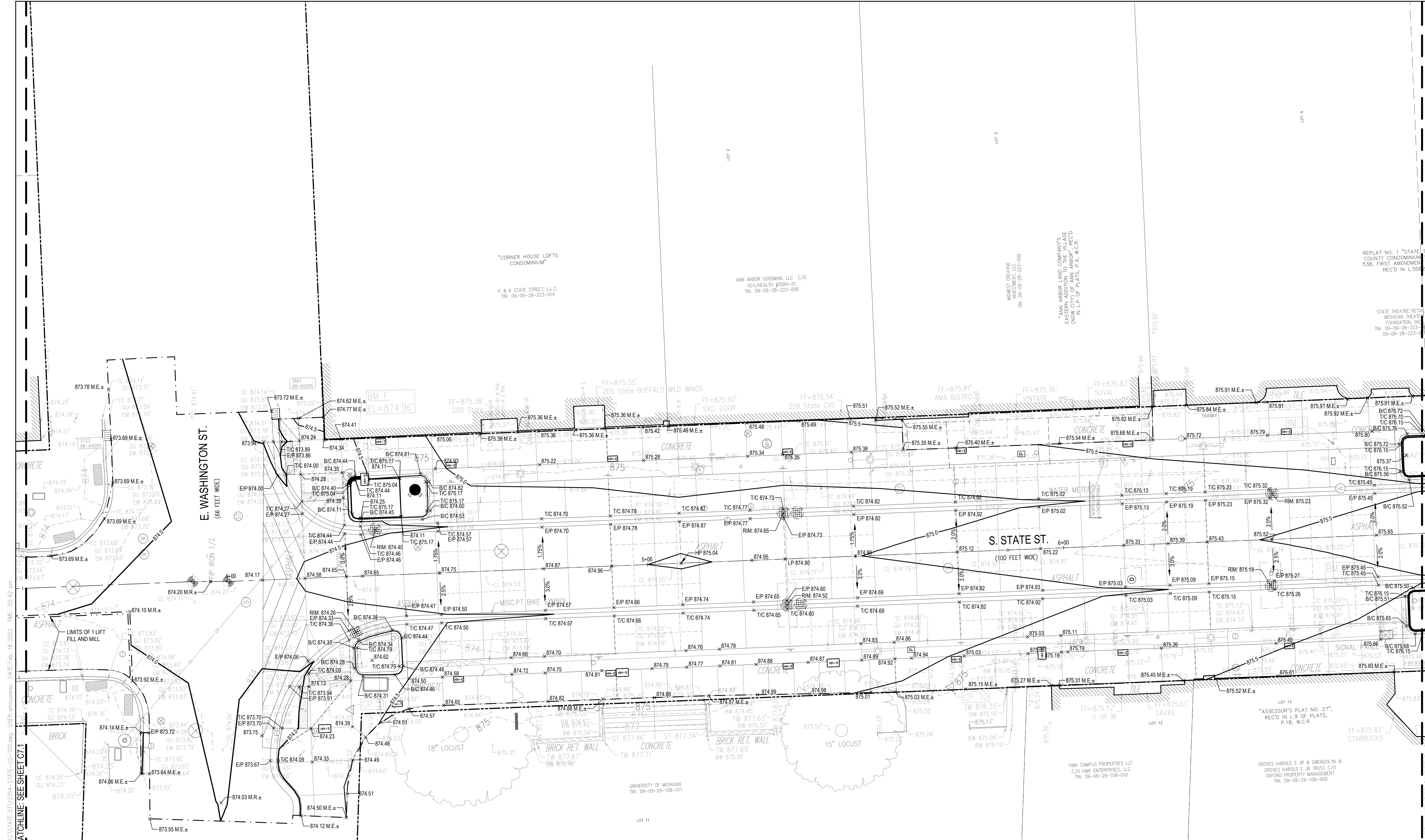
STATE ST STREETScape - CITY OF ANN ARBOR

GRADING PLAN 1

SCALE	
DRAWING NO.	C7.1
SHEET NO.	___ OF ___

APPROVED BY _____

MATCHLINE - SEE SHEET C7.2



LEGEND

---865---	EXISTING MAJOR CONTOUR	- - - - -	GRADE BREAK LINE	861.50	PROPOSED SPOT ELEVATION
---864---	EXISTING MINOR CONTOUR	2.5%	DRAINAGE SLOPE	861.50 M.E.	APPROX. SPOT ELEVATION: MATCH EXISTING GRADE
861.50 x	EXISTING SPOT ELEVATION	- - - - -	LIMITS OF 1 LIFT FILL AND MILL	861.50 M.R.	APPROX. SPOT ELEVATION: MATCH EXISTING GRADE & CROSS SLOPE OF ROADWAY
---866.0---	PROPOSED MAJOR CONTOUR (2 FOOT INTERVAL)			RIM 861.50	STRUCTURE RIM ELEVATION
---864.5---	PROPOSED MINOR CONTOUR (0.5 FOOT INTERVAL)			TIC 861.50	TOP OF CURB ELEVATION
- - - - -	GRADING LIMITS				

HP 861.50	HIGH POINT ELEVATION	B/C 861.50	BOTTOM OF PLANTER CURB
LP 861.50	LOW POINT ELEVATION	E/P 861.50	EDGE OF PAVEMENT ELEVATION
		HP 861.50	HIGH POINT ELEVATION
		LP 861.50	LOW POINT ELEVATION
			TEMPORARY CONSTRUCTION PHASING RAMP

SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
			100% BID SET		02-18-2022		

STATE ST STREETScape - CITY OF ANN ARBOR

GRADING PLAN 2

SCALE: 1" = 5' = 10'

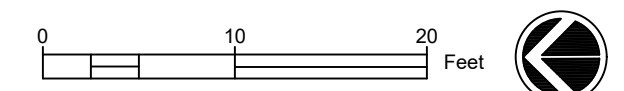
DRAWING NO. **C7.2**

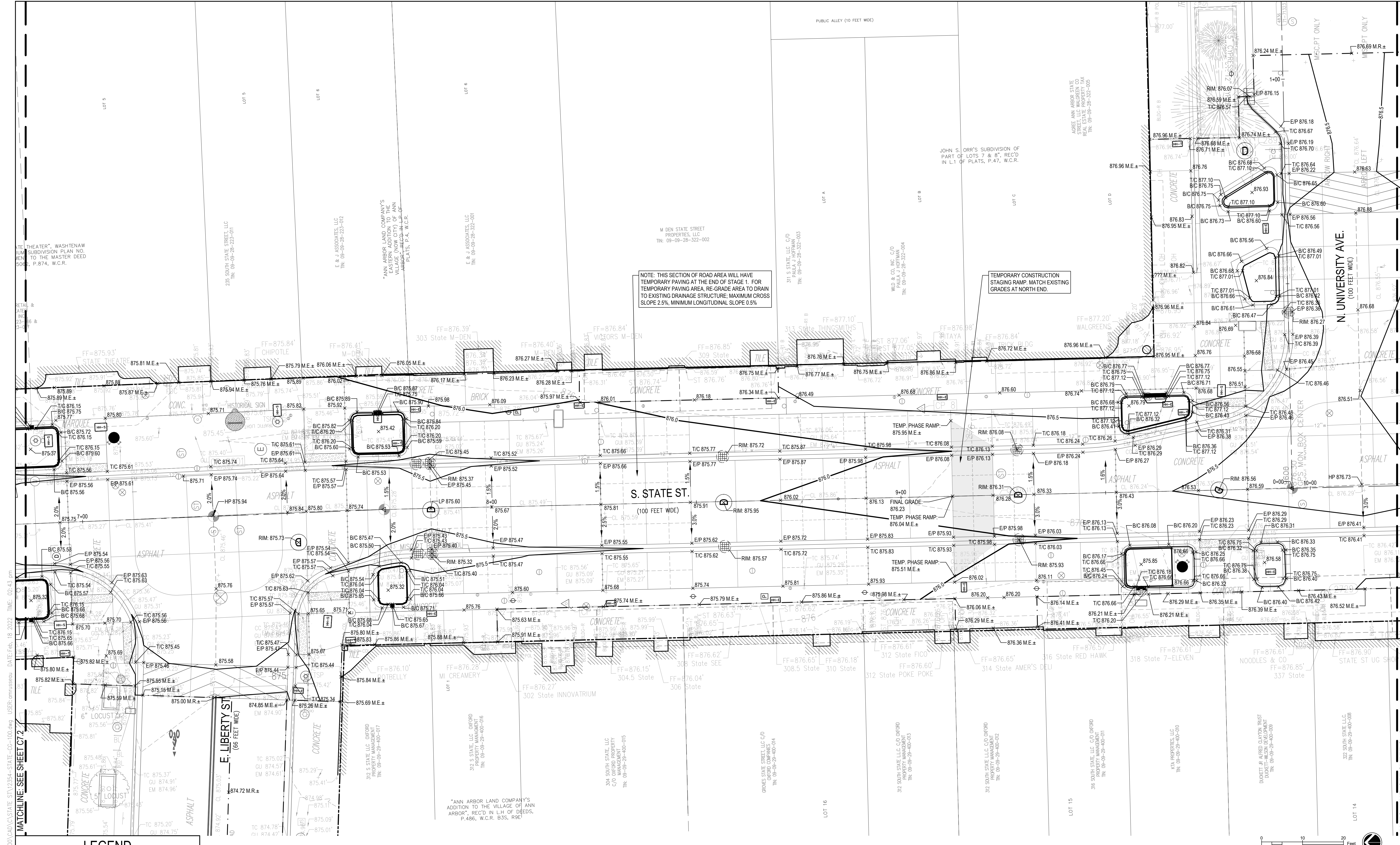
SHEET NO. ___ OF ___

APPROVED BY: _____

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MATCHLINE: SEE SHEET C7.3





NOTE: THIS SECTION OF ROAD AREA WILL HAVE TEMPORARY PAVING AT THE END OF STAGE 1. FOR TEMPORARY PAVING AREA, RE-GRADE AREA TO DRAIN TO EXISTING DRAINAGE STRUCTURE. MAXIMUM GROSS SLOPE 2.5%, MINIMUM LONGITUDINAL SLOPE 0.5%

TEMPORARY CONSTRUCTION STAGING RAMP. MATCH EXISTING GRADES AT NORTH END.

LEGEND

---865---	EXISTING MAJOR CONTOUR	---	GRADE BREAK LINE	861.50	PROPOSED SPOT ELEVATION	B/C 861.50	BOTTOM OF PLANTER CURB
---864---	EXISTING MINOR CONTOUR	2.5%	DRAINAGE SLOPE	861.50 M.E.	APPROX. SPOT ELEVATION: MATCH EXISTING GRADE	E/P 861.50	EDGE OF PAVEMENT ELEVATION
861.50 x	EXISTING SPOT ELEVATION	---	LIMITS OF 1 FOOT FILL AND MILL	861.50 M.R.	APPROX. SPOT ELEVATION: MATCH EXISTING GRADE & CROSS SLOPE OF ROADWAY	HP 861.50	HIGH POINT ELEVATION
---866.0---	PROPOSED MAJOR CONTOUR (2 FOOT INTERVAL)			RIM 861.50	STRUCTURE RIM ELEVATION	LP 861.50	LOW POINT ELEVATION
---864.5---	PROPOSED MINOR CONTOUR (0.5 FOOT INTERVAL)			T/C 861.50	TOP OF CURB ELEVATION		TEMPORARY CONSTRUCTION PHASING RAMP
---	GRADING LIMITS						

STATE ST STREETScape - CITY OF ANN ARBOR

GRADING PLAN 3

SCALE	1" = 5'
DRAWING NO.	C7.3
SHEET NO.	OF

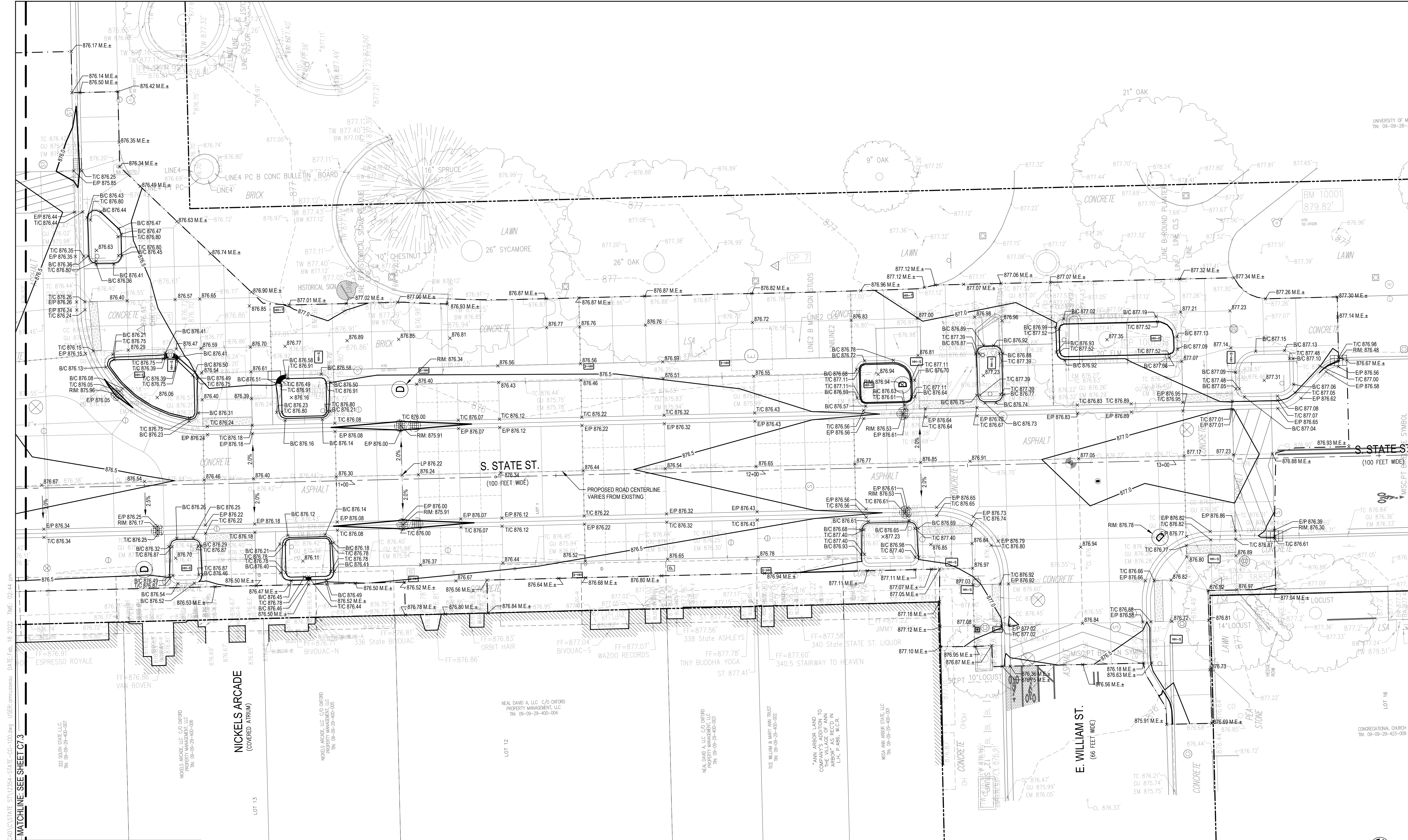
SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
			100% BID SET		02-18-2022		

APPROVED BY _____

FILE: \\g:\proj\12354\STATE-ST\12354-STATE-CC-100.dwg USER: cmr\scou DATE: Feb 18, 2022 TIME: 02:43:00

MATCHLINE: SEE SHEET C7.2

MATCHLINE: SEE SHEET C7.4



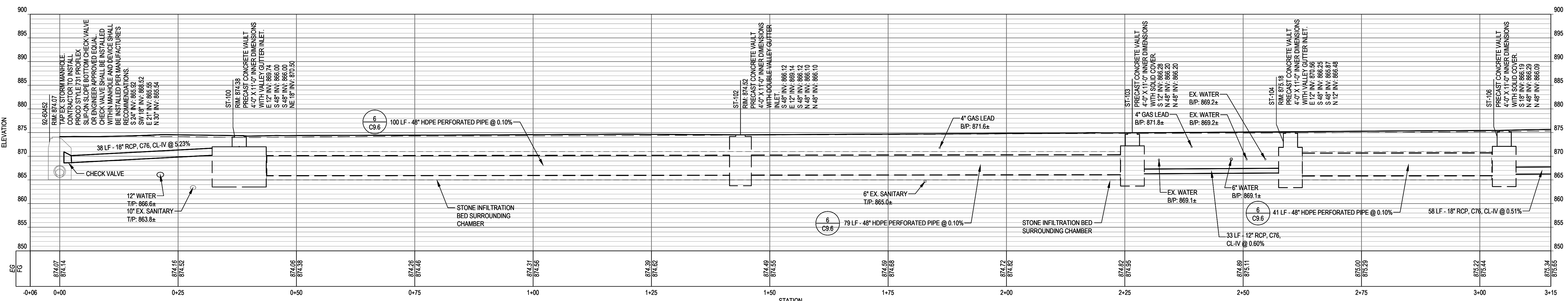
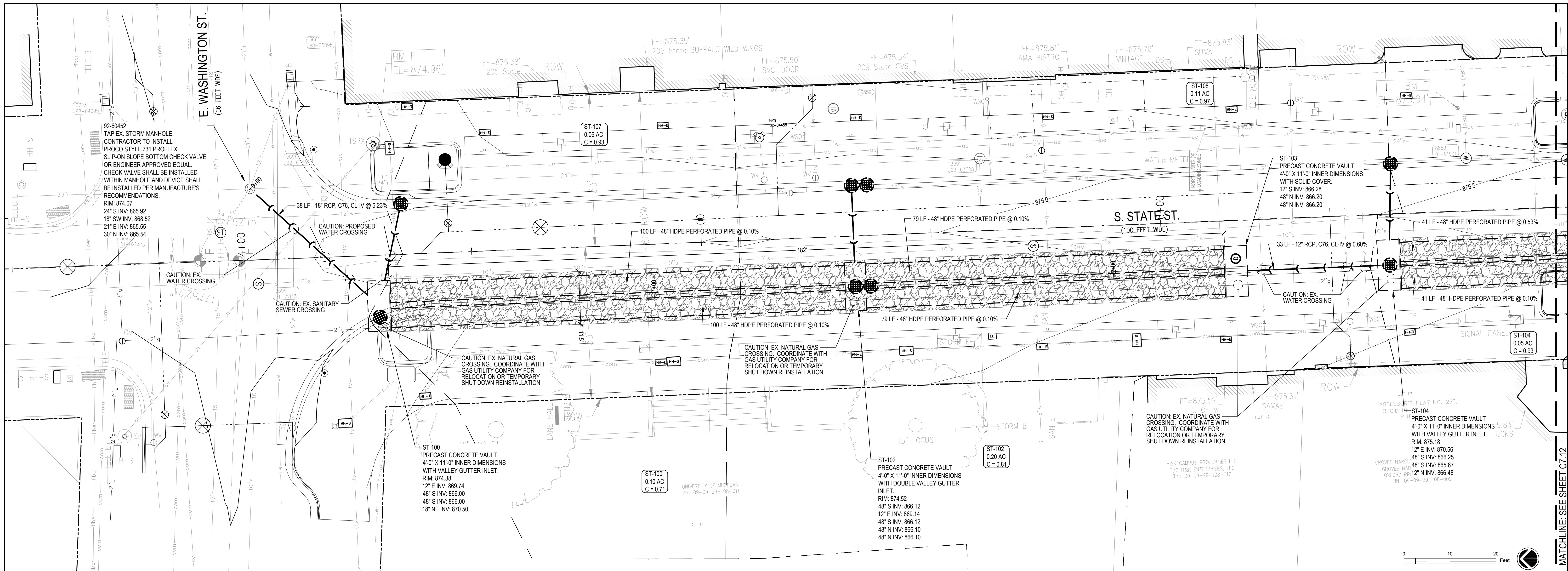
LEGEND

---865---	EXISTING MAJOR CONTOUR	- - - - -	GRADE BREAK LINE
---864---	EXISTING MINOR CONTOUR	2.5%	DRAINAGE SLOPE
861.50 x	EXISTING SPOT ELEVATION	- - - - -	LIMITS OF 1 FOOT FILL AND MLL
---866.0---	PROPOSED MAJOR CONTOUR (2 FOOT INTERVAL)		
---864.5---	PROPOSED MINOR CONTOUR (0.5 FOOT INTERVAL)		
- - - - -	GRADING LIMITS		

861.50	PROPOSED SPOT ELEVATION	B/C 861.50	BOTTOM OF PLANTER CURB
861.50 M.E.	APPROX. SPOT ELEVATION: MATCH EXISTING GRADE	E/P 861.50	EDGE OF PAVEMENT ELEVATION
861.50 M.R.	APPROX. SPOT ELEVATION: MATCH EXISTING GRADE & CROSS SLOPE OF ROADWAY	HP 861.50	HIGH POINT ELEVATION
RIM 861.50	STRUCTURE RIM ELEVATION	LP 861.50	LOW POINT ELEVATION
T/C 861.50	TOP OF CURB ELEVATION		TEMPORARY CONSTRUCTION PHASING RAMP

STATE ST STREETScape - CITY OF ANN ARBOR					
GRADING PLAN 4					
				SCALE 0" = 5' = 10'	
				DRAWING NO. C7.4	
				SHEET NO. ____ OF ____	
SEE ABOVE					
BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY
			100% BID SET	02-18-2022	
APPROVED BY					

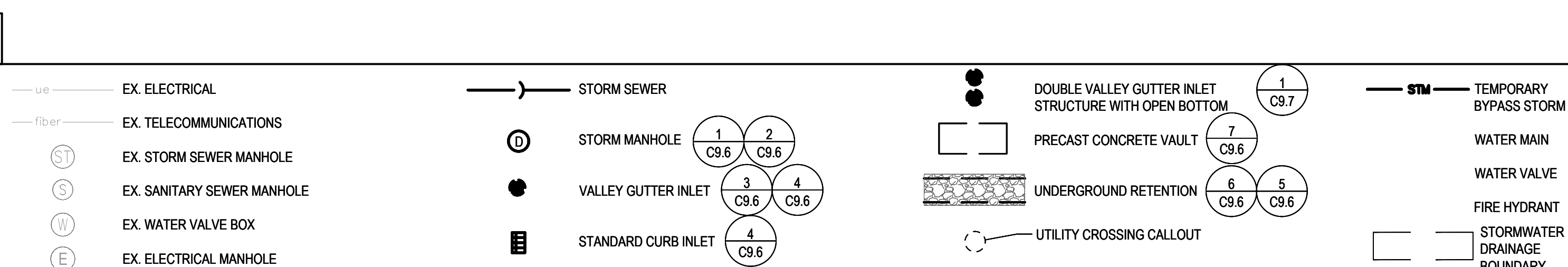
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 MATCHLINE: SEE SHEET C7.3



1A 92-60452 TO ST-148

LEGEND

—	PROPERTY LINE	—	EX. ELECTRICAL
- - -	RIGHT OF WAY (ROW)	—	EX. TELECOMMUNICATIONS
—	EX. STORM SEWER	ST	EX. STORM SEWER MANHOLE
—	EX. SANITARY SEWER	S	EX. SANITARY SEWER MANHOLE
—	EX. WATER MAIN	W	EX. WATER VALVE BOX
—	EX. GAS MAIN	E	EX. ELECTRICAL MANHOLE



SEE ABOVE					
BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY
		100% BID SET		02-18-2022	

STATE ST STREETScape - CITY OF ANN ARBOR

STORM SEWER PLAN AND PROFILE 1

SCALE: 0" = 10'

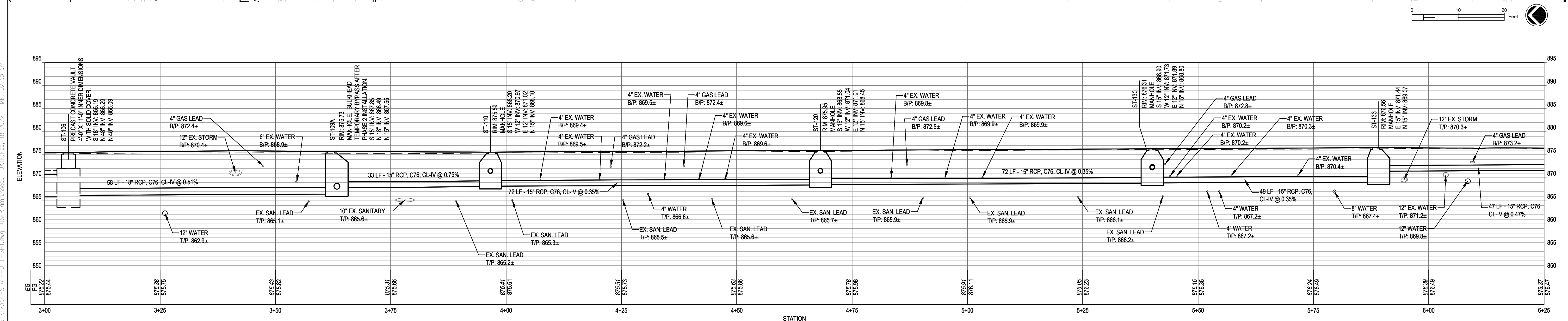
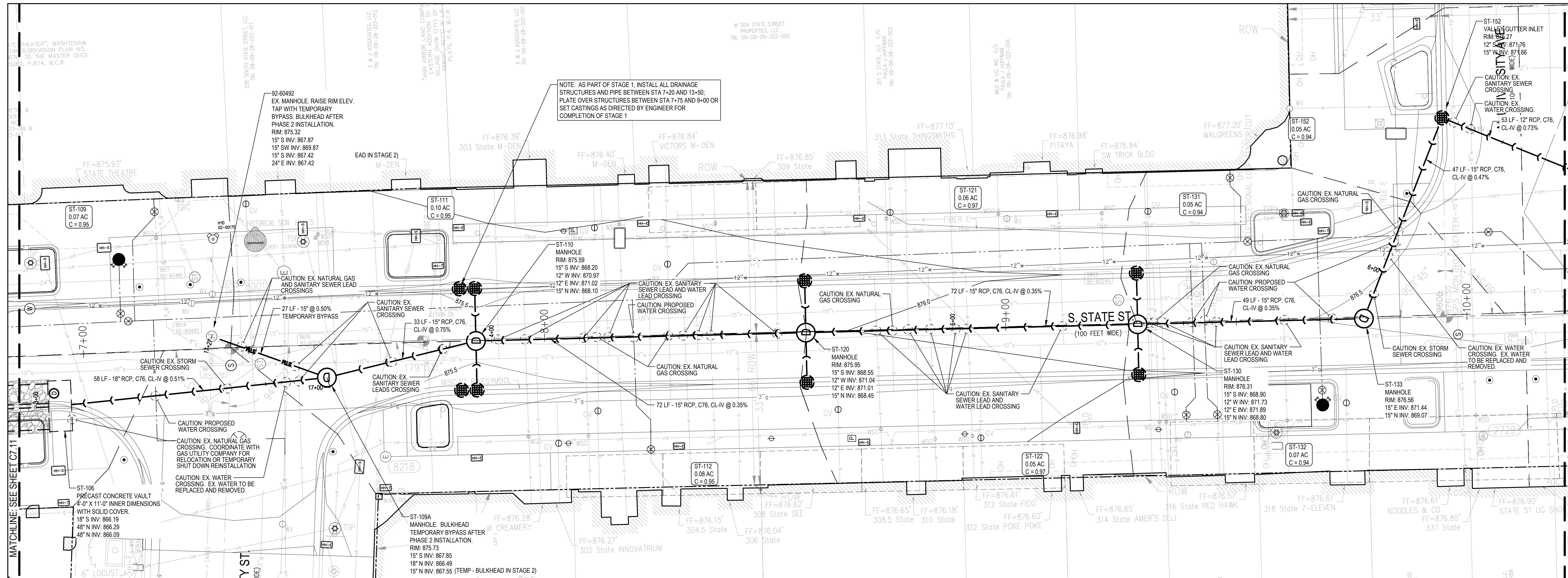
DRAWING NO. **C7.11**

SHEET NO. ___ OF ___

APPROVED BY: _____

FILE: \\proj-001\projects\12354\000\CAD\CIVIL\STATE-101-SHT.dwg USER: cmpraseau DATE: Feb. 18. 2022 TIME: 02:54 pm

MATCHLINE: SEE SHEET C7.12



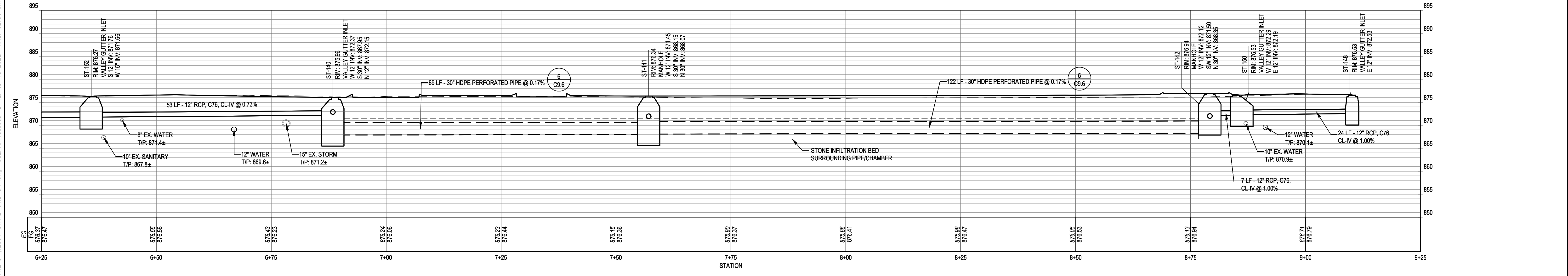
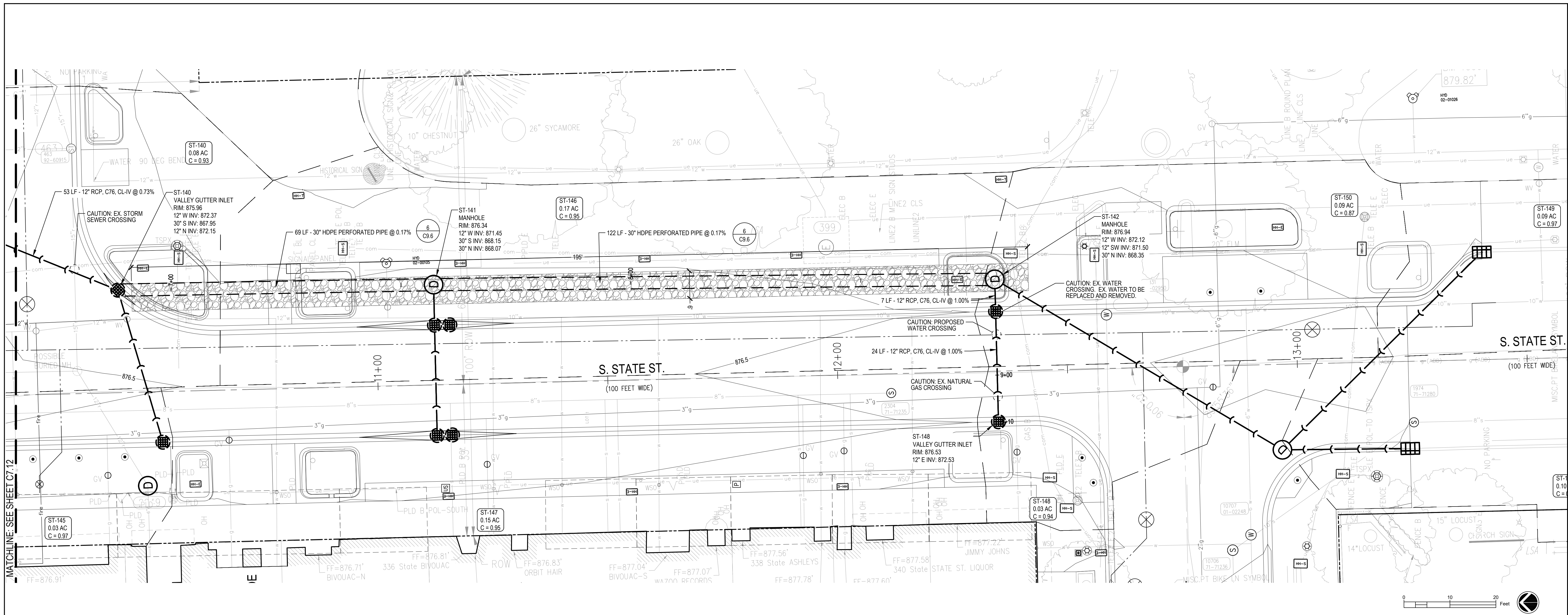
1B 92-60452 TO ST-148 - CONTINUED...

HORIZ SCALE: 1" = 10'
VERT SCALE: 1" = 10'

LEGEND

<ul style="list-style-type: none"> PROPERTY LINE RIGHT OF WAY (ROW) EX. STORM SEWER EX. SANITARY SEWER EX. WATER MAIN EX. GAS MAIN 	<ul style="list-style-type: none"> EX. ELECTRICAL EX. TELECOMMUNICATIONS EX. STORM SEWER MANHOLE EX. SANITARY SEWER MANHOLE EX. WATER VALVE BOX EX. ELECTRICAL MANHOLE 	<ul style="list-style-type: none"> STORM SEWER STORM MANHOLE VALLEY GUTTER INLET STANDARD CURB INLET 	<ul style="list-style-type: none"> DOUBLE VALLEY GUTTER INLET STRUCTURE WITH OPEN BOTTOM PRECAST CONCRETE VAULT UNDERGROUND RETENTION UTILITY CROSSING CALLOUT 	<ul style="list-style-type: none"> TEMPORARY BYPASS STORM WATER MAIN WATER VALVE FIRE HYDRANT STORMWATER DRAINAGE BOUNDARY 	<table border="1"> <tr> <td>SEE ABOVE</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>BENCH MARK</td> <td>SURVEY BOOK</td> <td>REV. NO.</td> <td>DESCRIPTION</td> <td>DATE</td> <td>DR. BY</td> </tr> <tr> <td></td> <td></td> <td>100% BID SET</td> <td></td> <td>02-18-2022</td> <td></td> </tr> </table>	SEE ABOVE						BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY			100% BID SET		02-18-2022		<p align="center">STATE ST STREETScape - CITY OF ANN ARBOR</p> <p align="center">STORM SEWER PLAN AND PROFILE 2</p> <p align="right">SCALE: 1" = 10'</p> <p align="right">DRAWING NO. C7.12</p> <p align="right">SHEET NO. ___ OF ___</p>
SEE ABOVE																								
BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY																			
		100% BID SET		02-18-2022																				

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1C 92-60452 TO ST-148 - CONTINUED...

HORIZ SCALE: 1" = 10'
VERT SCALE: 1" = 10'

LEGEND

- PROPERTY LINE
- - - RIGHT OF WAY (ROW)
- EX. STORM SEWER
- EX. SANITARY SEWER
- EX. WATER MAIN
- EX. GAS MAIN
- EX. ELECTRICAL
- EX. TELECOMMUNICATIONS
- STORM SEWER
- STORM MANHOLE
- VALLEY GUTTER INLET
- STANDARD CURB INLET
- DOUBLE VALLEY GUTTER INLET STRUCTURE WITH OPEN BOTTOM
- PRECAST CONCRETE VAULT
- ▨ UNDERGROUND RETENTION
- UTILITY CROSSING CALLOUT
- STM — TEMPORARY BYPASS STORM
- WATER MAIN
- WATER VALVE
- FIRE HYDRANT
- STORMWATER DRAINAGE BOUNDARY

SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
			100% BID SET		02-18-2022		

STATE ST STREETScape - CITY OF ANN ARBOR

STORM SEWER PLAN AND PROFILE 3

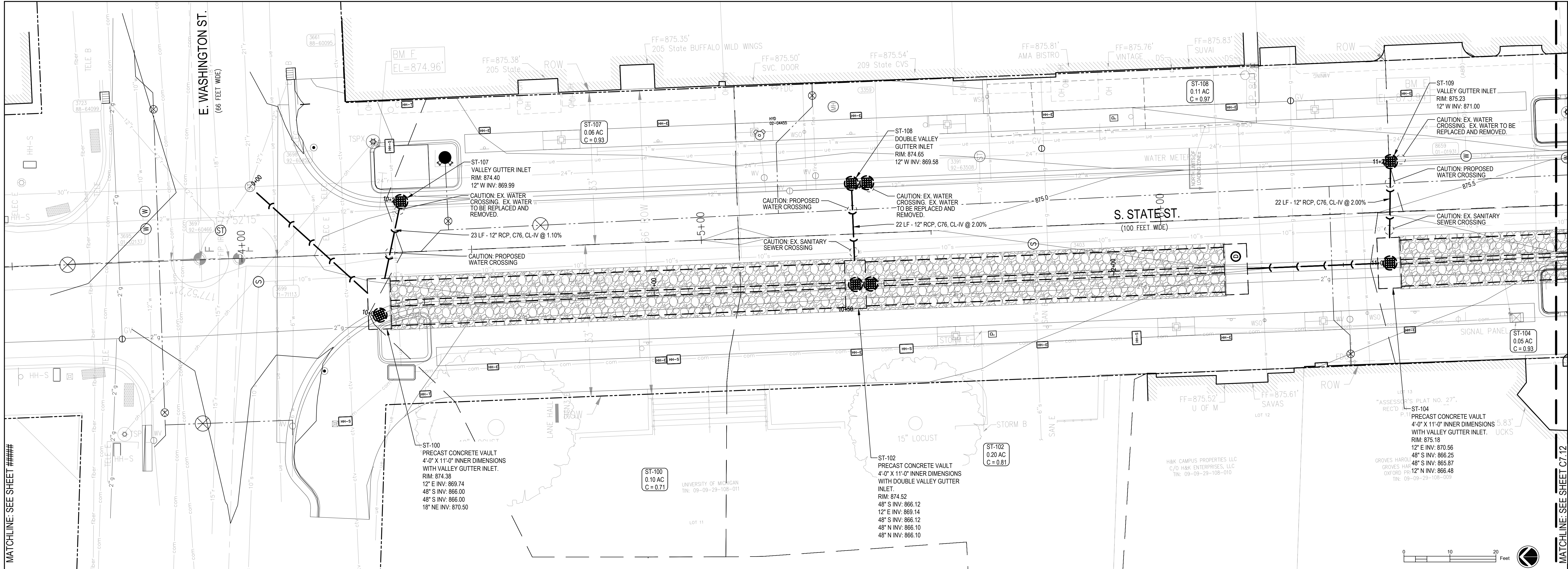
SCALE: 0" = 10"

DRAWING NO. **C7.13**

SHEET NO. ___ OF ___

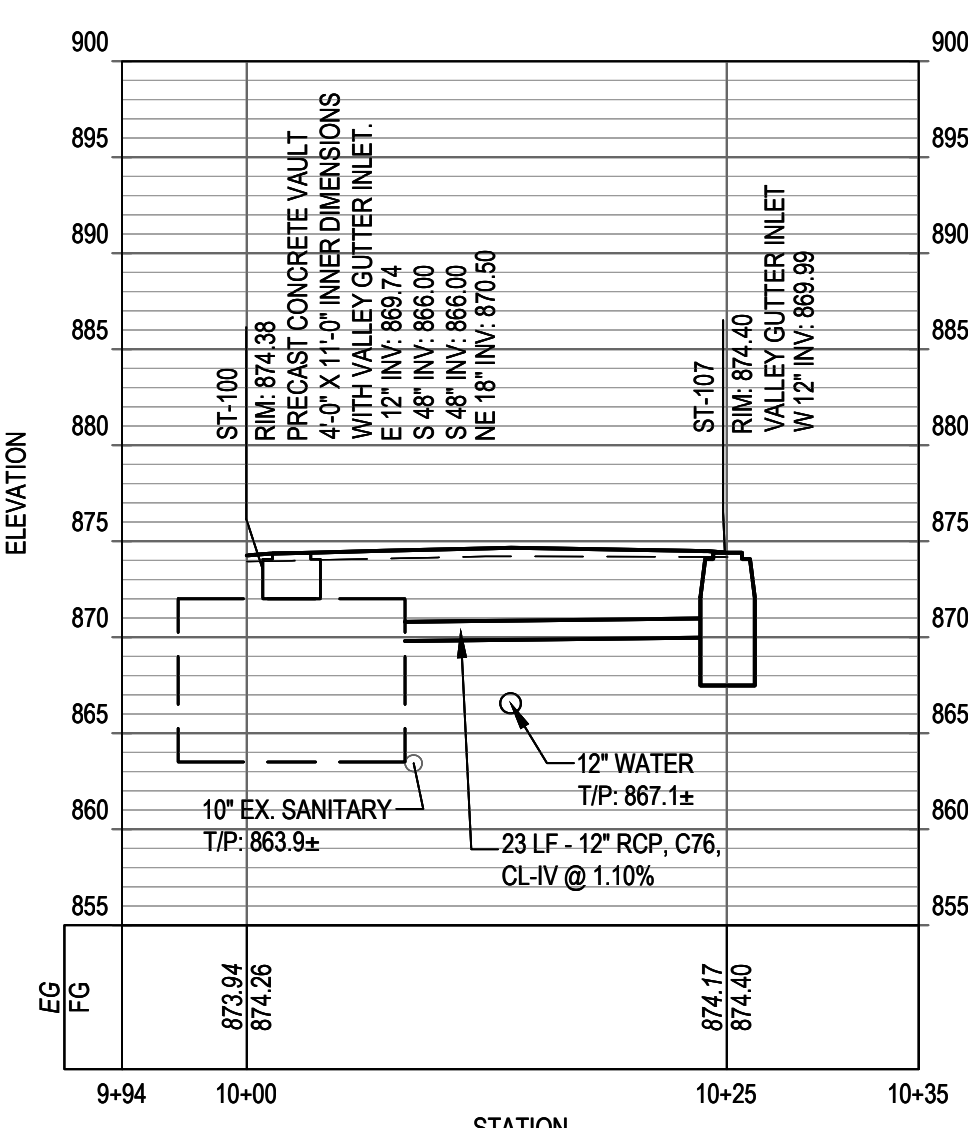
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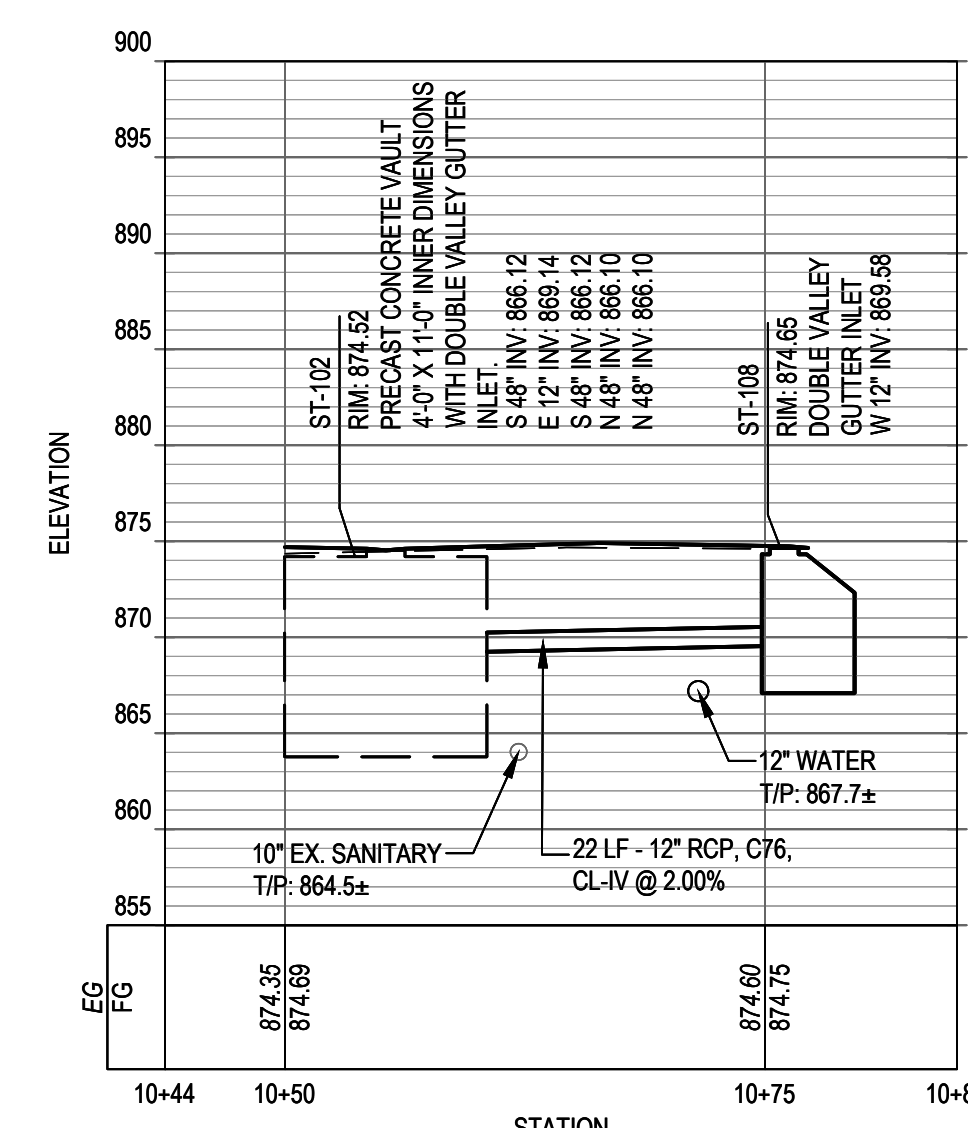


MATCHLINE: SEE SHEET #####

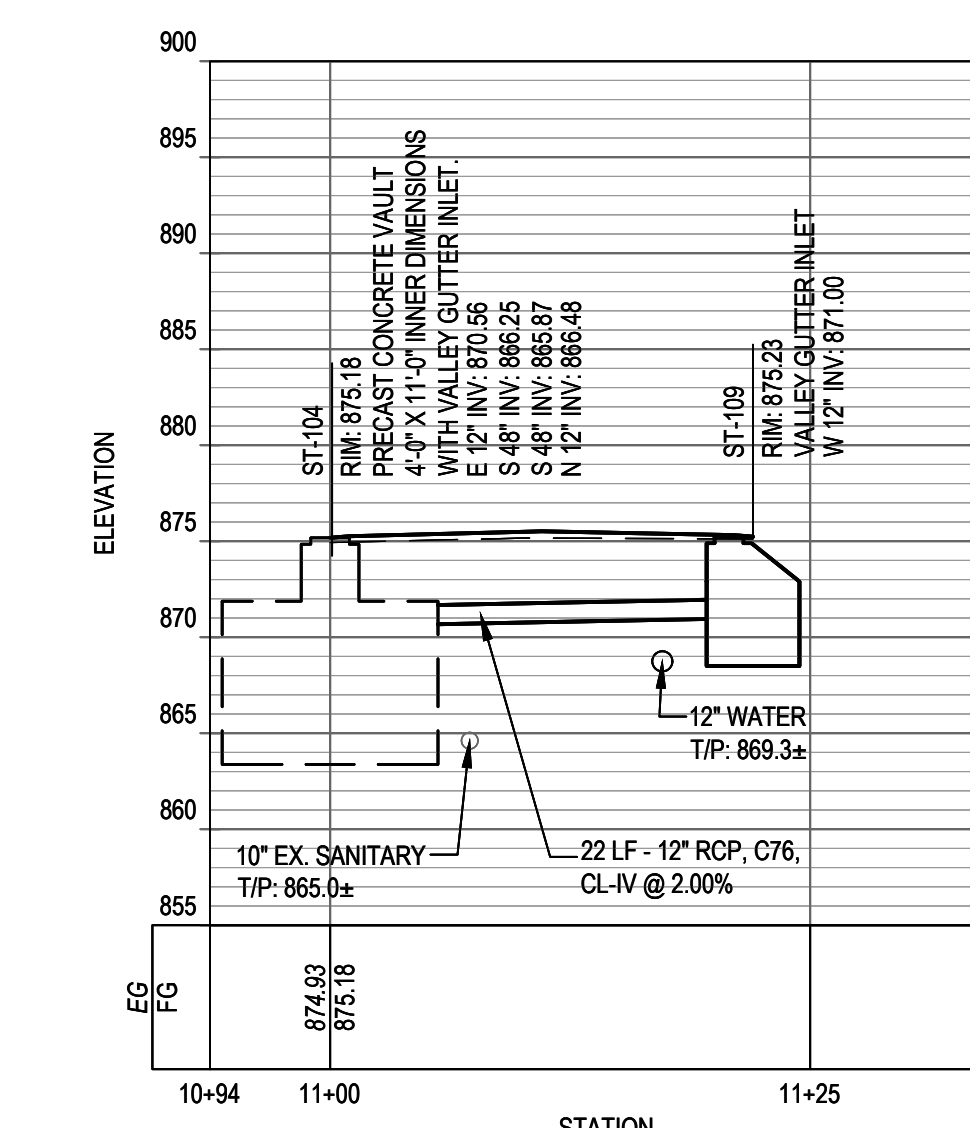
MATCHLINE: SEE SHEET C7.12



2 ST-100 TO ST-107
 HORIZ SCALE: 1" = 10'
 VERT SCALE: 1" = 10'



3 ST-102 TO ST-108
 HORIZ SCALE: 1" = 10'
 VERT SCALE: 1" = 10'

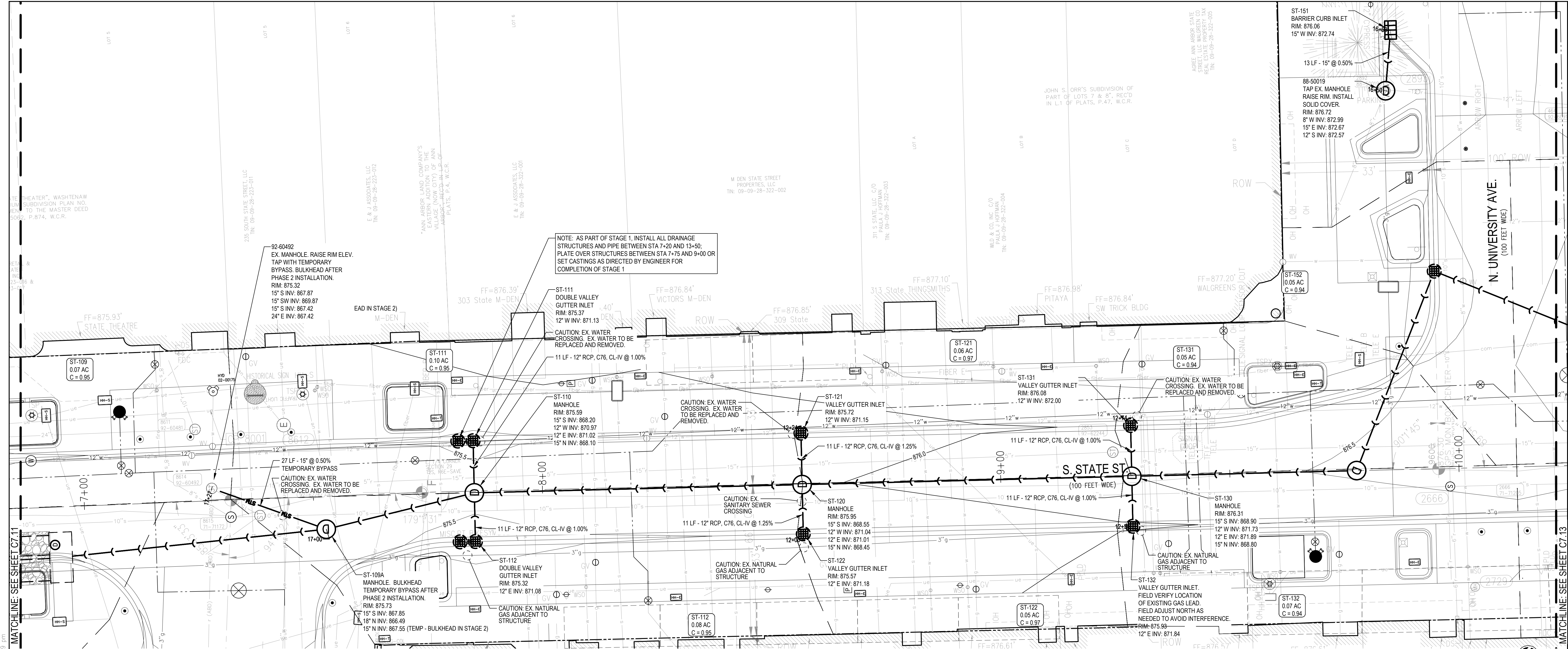


4 ST-104 TO ST-109
 HORIZ SCALE: 1" = 10'
 VERT SCALE: 1" = 10'

LEGEND	
	PROPERTY LINE
	RIGHT OF WAY (ROW)
	EX. STORM SEWER
	EX. SANITARY SEWER
	EX. WATER MAIN
	EX. GAS MAIN
	EX. ELECTRICAL
	EX. TELECOMMUNICATIONS
	EX. STORM SEWER MANHOLE
	EX. SANITARY SEWER MANHOLE
	EX. WATER VALVE BOX
	EX. ELECTRICAL MANHOLE
	STORM MANHOLE
	VALLEY GUTTER INLET
	STANDARD CURB INLET
	DOUBLE VALLEY GUTTER INLET STRUCTURE WITH OPEN BOTTOM
	PRECAST CONCRETE VAULT
	UNDERGROUND RETENTION
	UTILITY CROSSING CALLOUT
	TEMPORARY BYPASS STORM
	WATER MAIN
	WATER VALVE
	FIRE HYDRANT
	STORMWATER DRAINAGE BOUNDARY

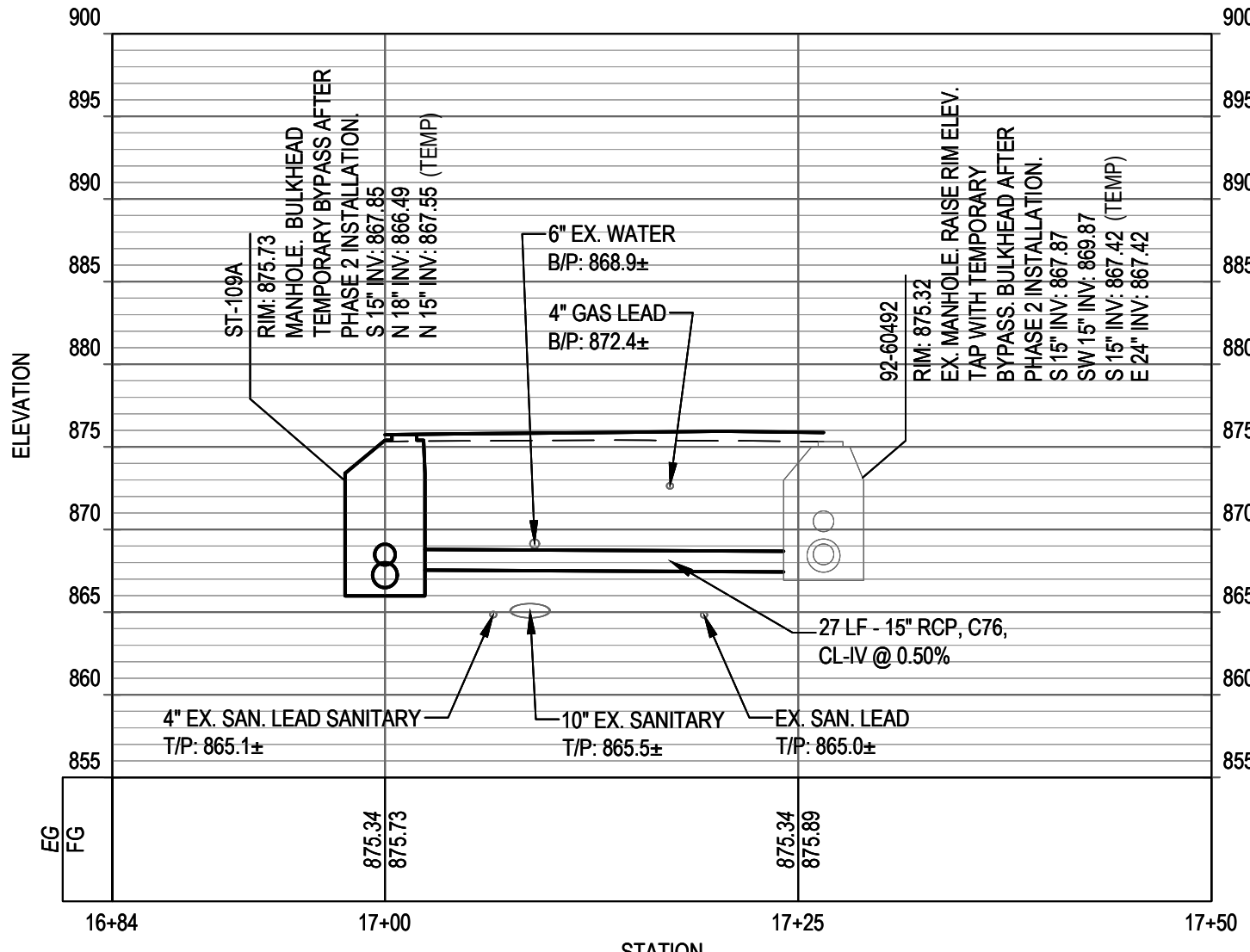
STATE ST STREETScape - CITY OF ANN ARBOR					
STORM SEWER PLAN AND PROFILE 4					
SCALE		INCH 5' 10'			
DRAWING NO.		C7.14			
SHEET NO.		OF			
SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE
			100% BID SET	02-18-2022	
DR. BY	CH. BY	APPROVED BY			

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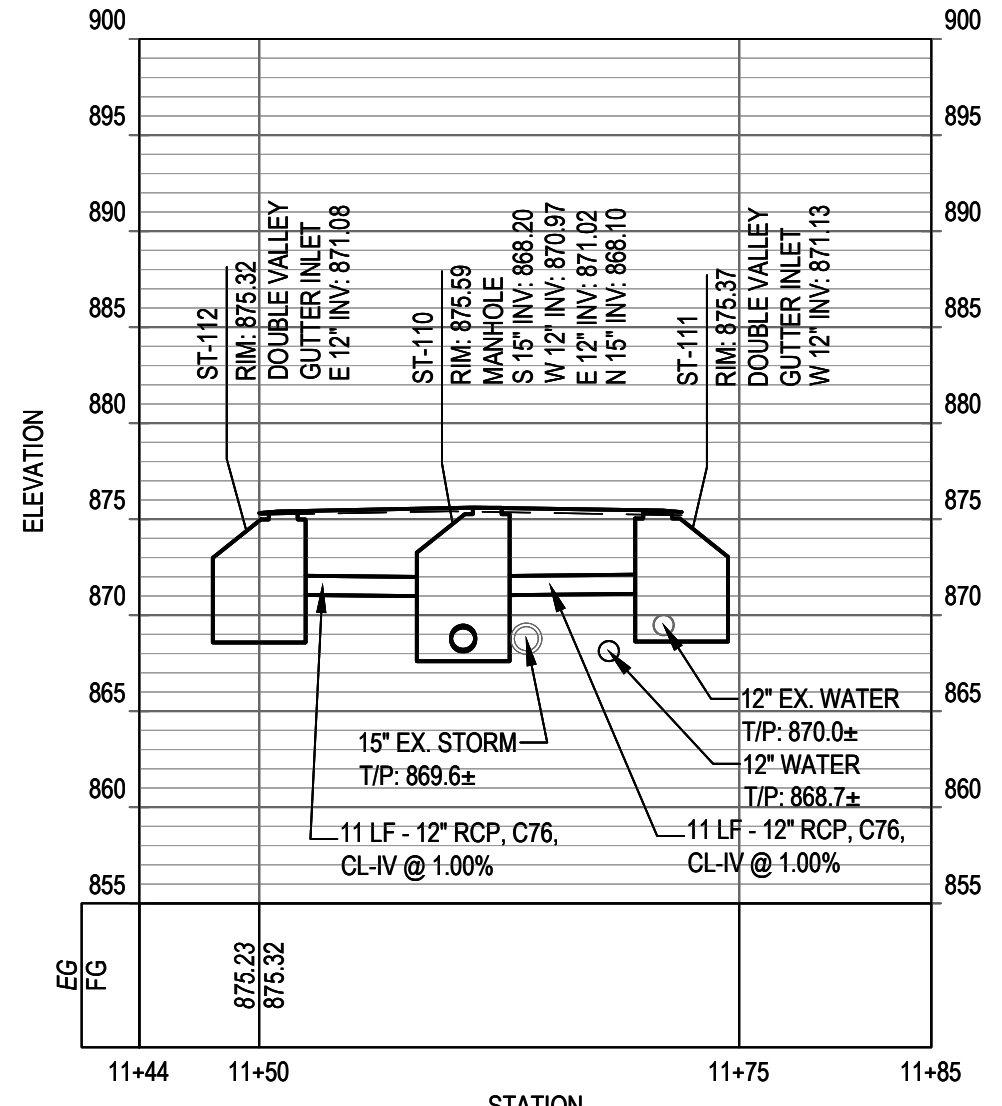


MATCHLINE SEE SHEET C7.11

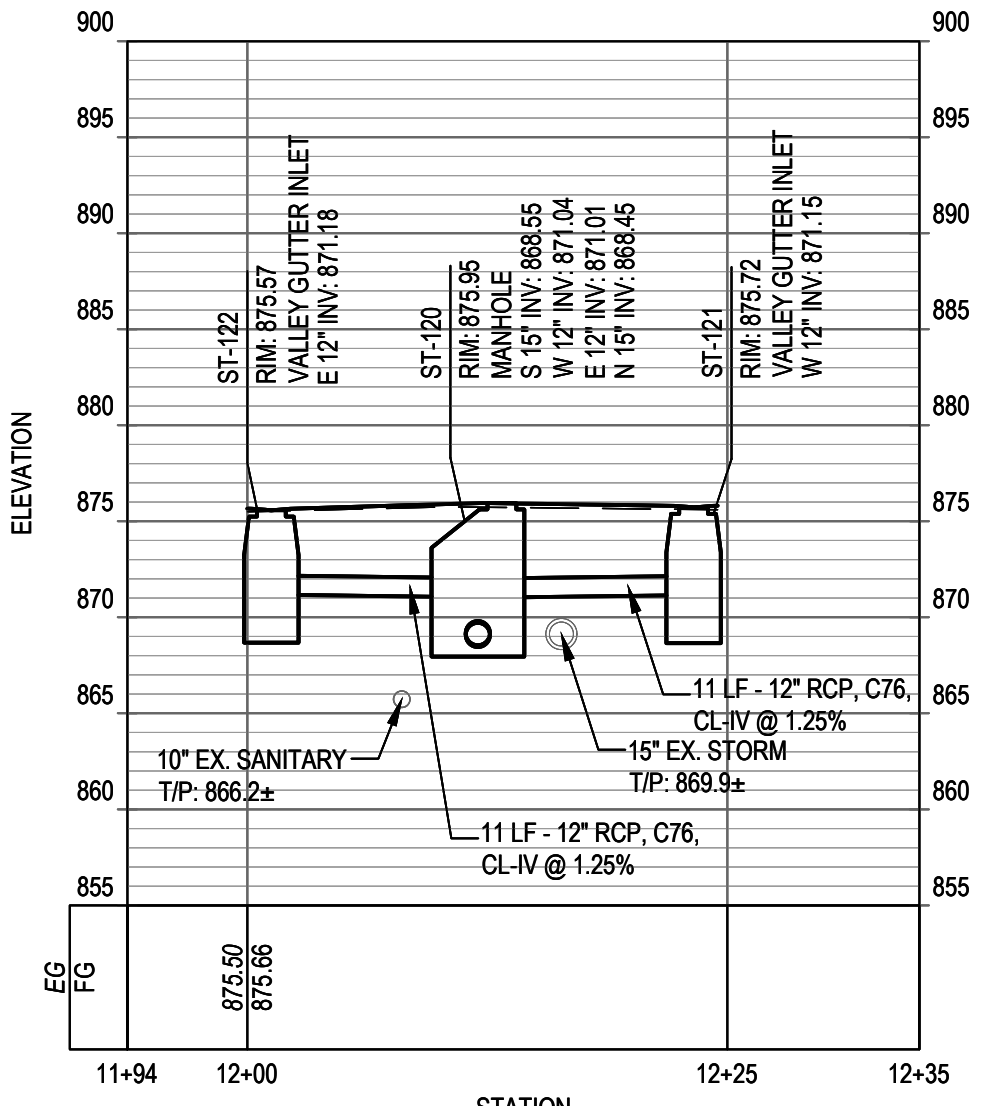
MATCHLINE SEE SHEET C7.13



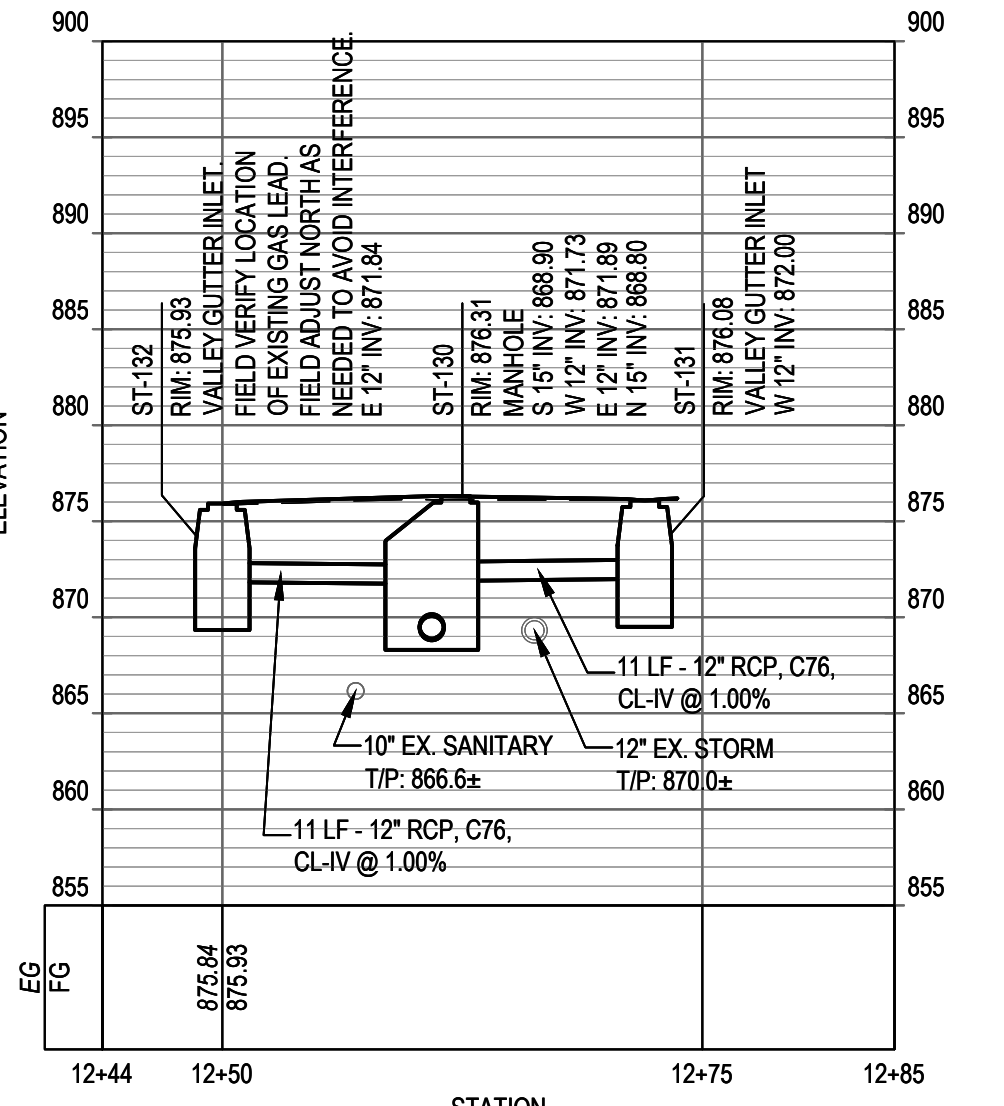
5 ST-109A TO 92-60492 - TEMP. BYPASS FOR STAGE 1. BULKHEAD FOR STAGE 2
HORIZ SCALE: 1" = 10'
VERT SCALE: 1" = 10'



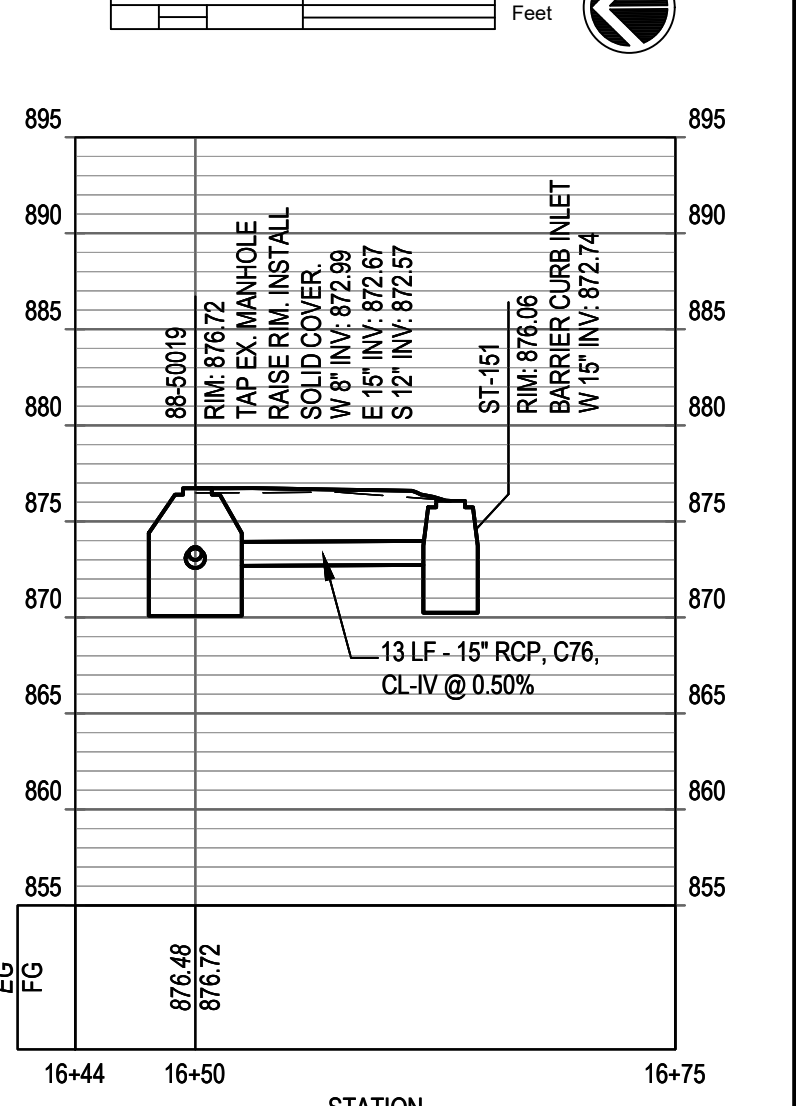
6 ST-111 TO ST-112
HORIZ SCALE: 1" = 10'
VERT SCALE: 1" = 10'



7 ST-121 TO ST-122
HORIZ SCALE: 1" = 10'
VERT SCALE: 1" = 10'



8 ST-131 TO ST-132
HORIZ SCALE: 1" = 10'
VERT SCALE: 1" = 10'



9 ST-140 TO 88-50019
HORIZ SCALE: 1" = 10'
VERT SCALE: 1" = 10'

LEGEND

- PROPERTY LINE
- - - RIGHT OF WAY (ROW)
- EX. STORM SEWER
- EX. SANITARY SEWER
- EX. WATER MAIN
- EX. GAS MAIN
- EX. ELECTRICAL
- EX. TELECOMMUNICATIONS
- STORM SEWER
- STORM MANHOLE
- VALLEY GUTTER INLET
- STANDARD CURB INLET
- DOUBLE VALLEY GUTTER INLET STRUCTURE WITH OPEN BOTTOM
- PRECAST CONCRETE VAULT
- UNDERGROUND RETENTION
- UTILITY CROSSING CALLOUT
- TEMPORARY BYPASS STORM
- WATER MAIN
- WATER VALVE
- FIRE HYDRANT
- STORMWATER DRAINAGE BOUNDARY

SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
			100% BID SET		02-18-2022		

STATE ST STREETScape - CITY OF ANN ARBOR

STORM SEWER PLAN AND PROFILE 5

SCALE: 0" = 10"

DRAWING NO. **C7.15**

SHEET NO. ___ OF ___

APPROVED BY: _____

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GENERAL NOTES

MDOT SIGNAL STANDARD PLANS

WHERE THE FOLLOWING ITEMS ARE CALLED FOR IN THE PLANS THEY ARE TO BE CONSTRUCTED ACCORDING TO THE STANDARDS GIVEN BELOW, OPPOSITE EACH ITEM, UNLESS OTHERWISE INDICATED.

- *SIG-230-A COLOR CODE WIRING/EQUIPMENT GROUNDING
- *SIG-250-A CONDUIT (DIRECT BURIAL/ENCASED)
- *SIG-330-A PEDESTAL MOUNTED SIGNAL DISPLAYS
- *SIG-331-A PEDESTAL MOUNTING FOR SIGNALS
- *SIG-340-A POLE MOUNTED SIGNAL DISPLAYS
- *SIG-341-A POLE MOUNTING DETAILS FOR SIGNALS
- *SIG-420-A WIRELESS VEHICLE DETECTION SYSTEM

*MDOT SPECIAL DETAILS - LOCATED IN PROPOSAL

MISCELLANEOUS QUANTITIES

THE LISTED ITEMS SHALL APPLY TO ALL LOCATIONS DIRECTED BY THE ENGINEER. THESE ITEMS ARE NOT DETAILED OR INCLUDED ON THE PLAN SHEETS.

ITEM	QUANTITIES
Recable, TS	200 Ft
3 inch Schedule 80 PVC Electrical Conduit	200 Lft
TS Face, Bag	12 Ea
TS Face, Bag, Rem	12 Ea

SIGNALS

MAINTAINING AGENCY CONTACT INFORMATION
 • CITY OF ANN ARBOR: (734) 794-6361

NOTIFICATIONS TO MAINTAINING AGENCIES
 CONTACT THE CITY OF ANN ARBOR SEVEN WORKING DAYS PRIOR TO START OF CONSTRUCTION AND SEVEN WORKING DAYS PRIOR TO SIGNAL ACTIVATION.

FACILITIES NOT ON PLANS
 EXISTING O.H. & T.S. FACILITIES ARE NOT NECESSARILY SHOWN ON PLANS.

UNDERGROUND UTILITY SEPARATION
 A MINIMUM CLEARANCE OF 3'-6" HORIZONTAL & 1'-0" VERTICAL MUST BE MAINTAINED BETWEEN PROPOSED FACILITIES & EXISTING U.G. WATER FACILITIES.

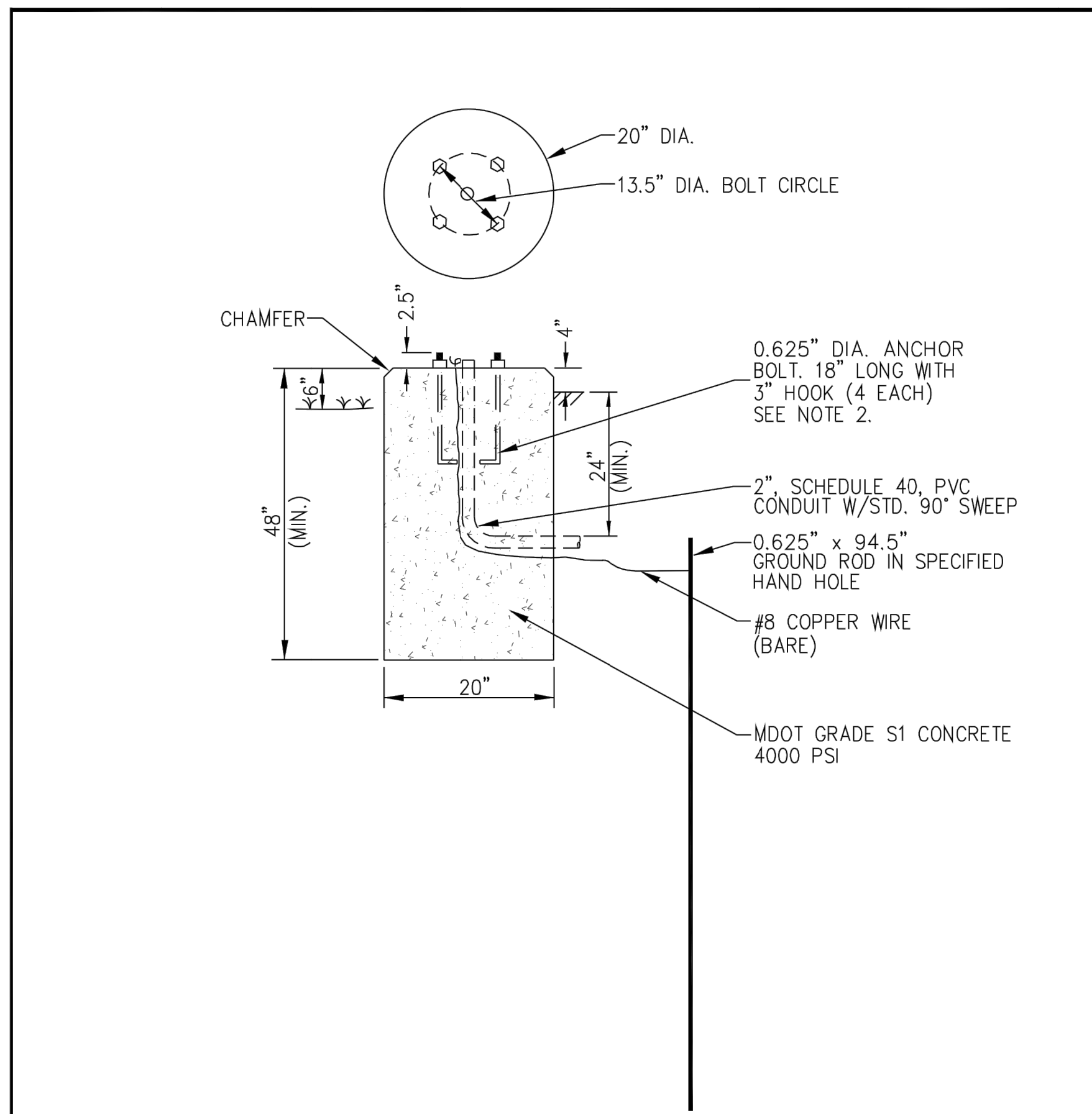
SIGNAL EQUIPMENT DISPOSAL
 DISPOSAL OF ALL TRAFFIC SIGNAL EQUIPMENT IS INCLUDED IN THE REMOVAL PAY ITEMS AND SHALL ALSO INCLUDE THE FOLLOWING:
 • NOTIFICATION TO THE CITY OF ANN ARBOR THAT TRAFFIC SIGNAL EQUIPMENT IS BEING REMOVED.
 • TEMPORARY STORAGE OF EQUIPMENT IN A DUMPSTER ON SITE (OR AS DIRECTED BY THE ENGINEER) ALLOWING THE CITY OF ANN ARBOR 48 HOURS TO SALVAGE ANY EQUIPMENT.
 • PROPER DISPOSAL OF ANY EQUIPMENT CONTAINING ENVIRONMENTALLY SENSITIVE MATERIALS (MERCURY RELAY SWITCHES FOR EXAMPLE)
 • DISABLING OR DESTRUCTION OF ALL REMAINING EQUIPMENT TO THE SATISFACTION OF THE ENGINEER SUCH THAT IT CANNOT BE REUSED OR RESOLD.
 • PROPER DISPOSAL OF ALL REMAINING EQUIPMENT.

PLAN DEVIATIONS DURING CONSTRUCTION
 NO CHANGES FROM PLANS IN LOCATION OF SUPPORTING STRUCTURES SIGNAL HEAD PLACEMENT OR TRAFFIC SIGNAL EQUIPMENT WILL BE ALLOWED WITHOUT PRIOR APPROVAL OF THE CITY OF ANN ARBOR.

INNERDUCT
 CONTRACTOR MUST INSTALL A CONTINUOUS FLEXIBLE NON-METALLIC TUBING (INNERDUCT) FOR LOW VOLTAGE COMMUNICATION TYPE CABLE FROM THE DEVICE TO THE CONTROLLER CABINET. INNERDUCT IS NOT REQUIRED IF COMMUNICATION CABLE IS 600V RATED.

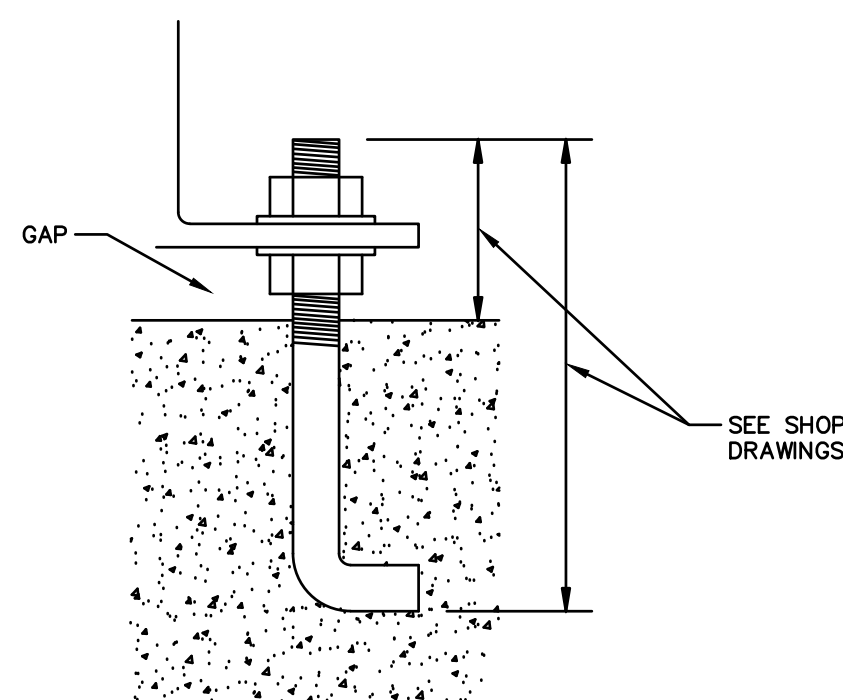
TRAFFIC SIGNAL EQUIPMENT SYMBOLS

- ⊖ 12" L.E.D. VEHICLE TRAFFIC SIGNAL (ONE WAY)
- ⊕ 12" L.E.D. VEHICLE TRAFFIC SIGNAL (TWO WAY: BACK TO BACK)
- ⊗ 12" L.E.D. VEHICLE TRAFFIC SIGNAL (THREE WAY)
- ⊙ 12" L.E.D. VEHICLE TRAFFIC SIGNAL (FOUR WAY)
- ⊖ 12" L.E.D. PEDESTRIAN TRAFFIC SIGNAL (ONE WAY)
- ⊕ 12" L.E.D. PEDESTRIAN TRAFFIC SIGNAL (TWO WAY: AT ANGLE TO EACH OTHER)
- ⊖ PEDESTRIAN PUSHBUTTON
- ⊕ 30 INCH ROUND PRECAST TRAFFIC SIGNAL HANDHOLE
- ⊕ 36 INCH ROUND PRECAST TRAFFIC SIGNAL HANDHOLE
- ⊕ ALUMINUM PEDESTRIAN PEDESTAL
- ⊕ ANCHOR BASE STEEL STRAIN POLE (POLE LENGTH & FOUNDATION SIZE AS CALLED OUT)
- ⊕ MAST ARM STANDARD AND FOUNDATION (POLE LENGTH & FOUNDATION SIZE AS CALLED OUT)
- ⊕ BASE MOUNTED TRAFFIC CONTROLLER
- ⊕ POLE MOUNTED TRAFFIC CONTROLLER
- ⊕ CASE SIGN (1 WAY OR 2 WAY)
- ⊕ CASE SIGN (3 WAY OR 4 WAY)
- ⊕ COILED UP WIRE (FOR CONNECTION BY OTHERS)
- ⊕ STAINLESS STEEL SERVICE DISCONNECT
- ⊕ METERED ELECTRIC SERVICE
- ⊕ ELECTRIC GROUND
- ⊕ SIGNAL HEAD
- CS# ⊕ ILLUMINATED CASE SIGN
- ⊕ PROPOSED/SALVAGED WIRELESS VEHICLE SENSOR NODE
- ⊕ EXISTING/REMOVED WIRELESS VEHICLE SENSOR NODE
- ⊕ SPP RADIO

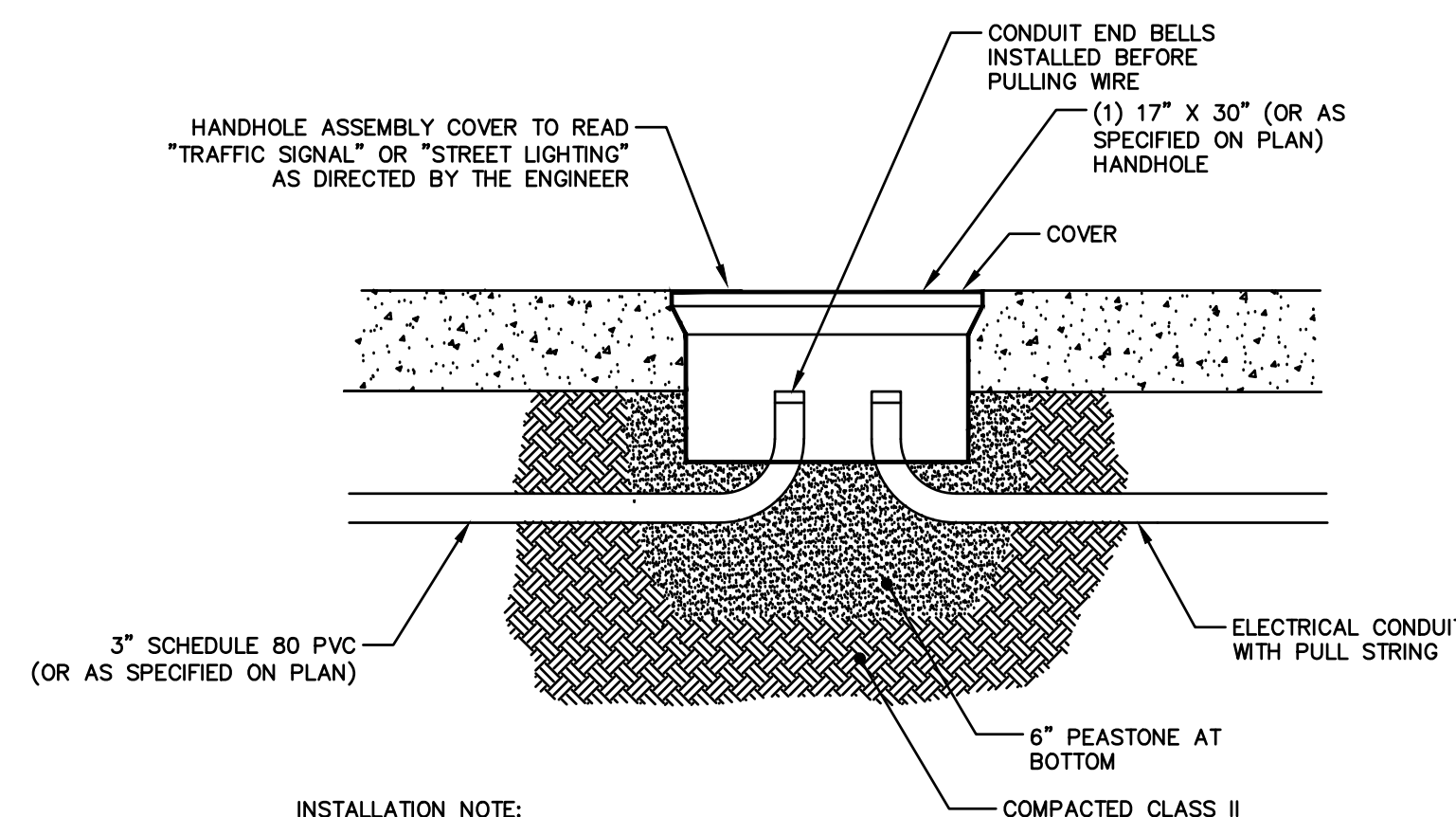


- NOTES:
- THE CITY WILL INSPECT THE AUGERED HOLE AND THE ANCHOR BOLT BUILD-UP AND PROVIDE WRITTEN APPROVAL PRIOR TO THE PLACEMENT OF CONCRETE.
 - CONTRACTOR WILL PROVIDE NECESSARY CONDUIT FOR ENTRY. THIS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE POLE BASE.

ADDED CLARIFYING DETAILS				
3	DPF	MGN	11/06	
UPDATED PER MDOT STANDARDS				
2	DPF	MGN	10/05	
1	PJM	HP	10/02	
REVISIONS				
REV. NO.	DR. BY	CH. BY	DATE	
PUBLIC SERVICES DEPARTMENT CITY OF ANN ARBOR				
PEDESTRIAN SIGNAL POLE FOUNDATION DETAIL				
DR. BY	DPF	CH. BY	HP	DRAWING NO.
N.T.S.		3-31-00		SD-SL-3
SCALE	SHEET NO. _____ OF _____			

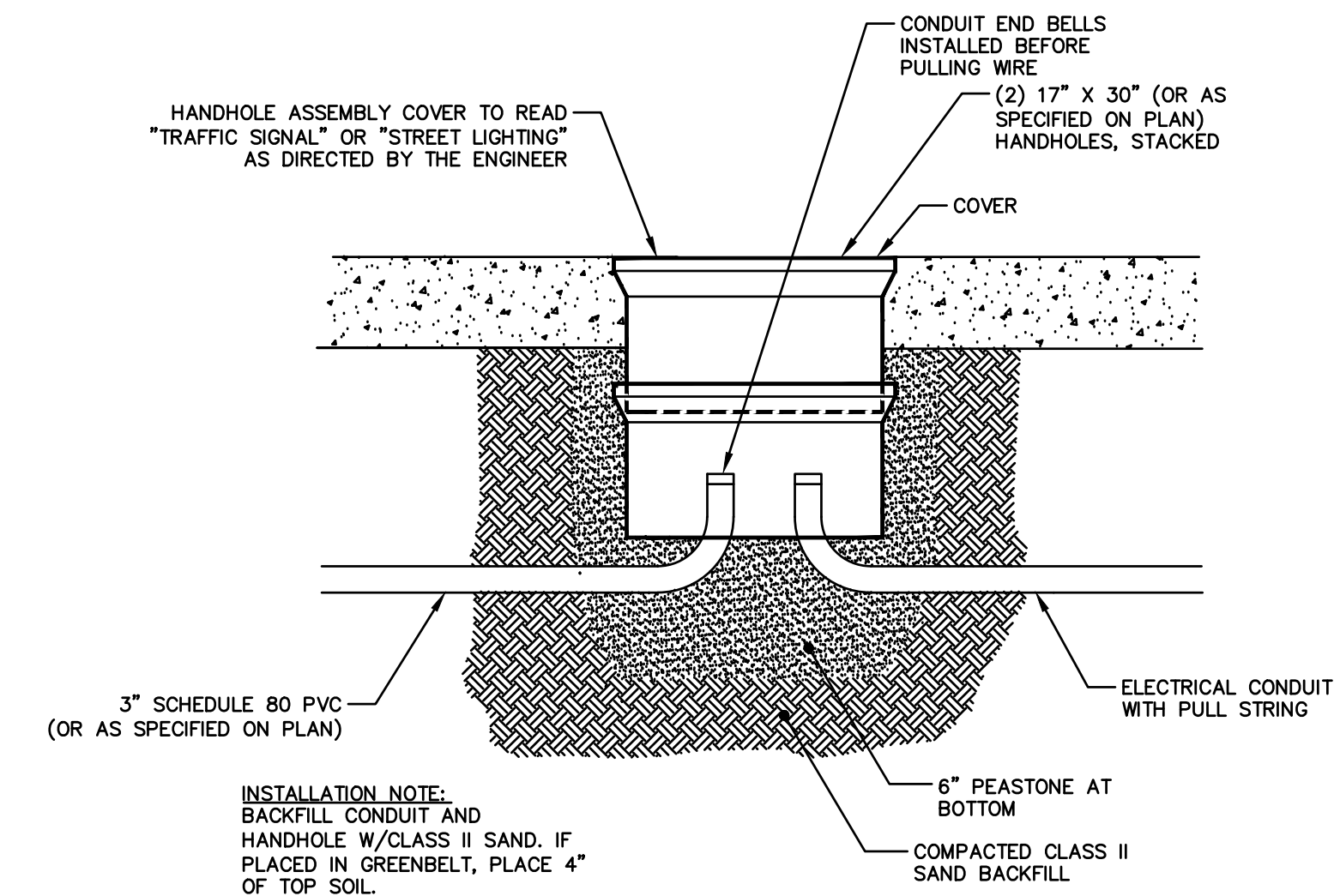


ANCHOR BOLT PROJECTION DETAIL



INSTALLATION NOTE:
 BACKFILL CONDUIT AND HANDHOLE W/CLASS II SAND. IF PLACED IN GREENBELT, PLACE 4" OF TOP SOIL.
 (QUAZITE BRAND FOR ALL HANDHOLES)

SINGLE STACK HANDHOLE DETAIL

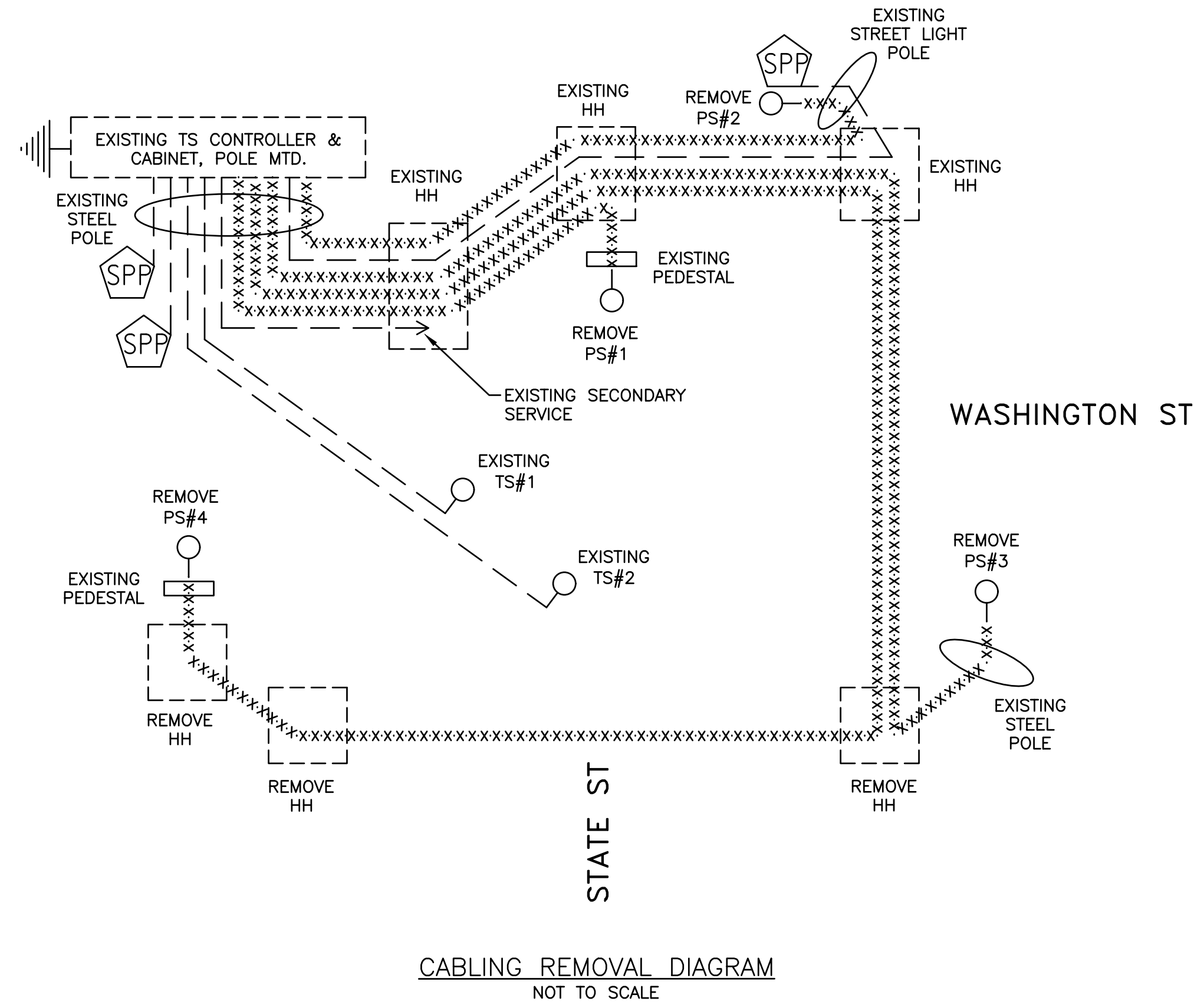


INSTALLATION NOTE:
 BACKFILL CONDUIT AND HANDHOLE W/CLASS II SAND. IF PLACED IN GREENBELT, PLACE 4" OF TOP SOIL.
 (QUAZITE BRAND FOR ALL HANDHOLES)

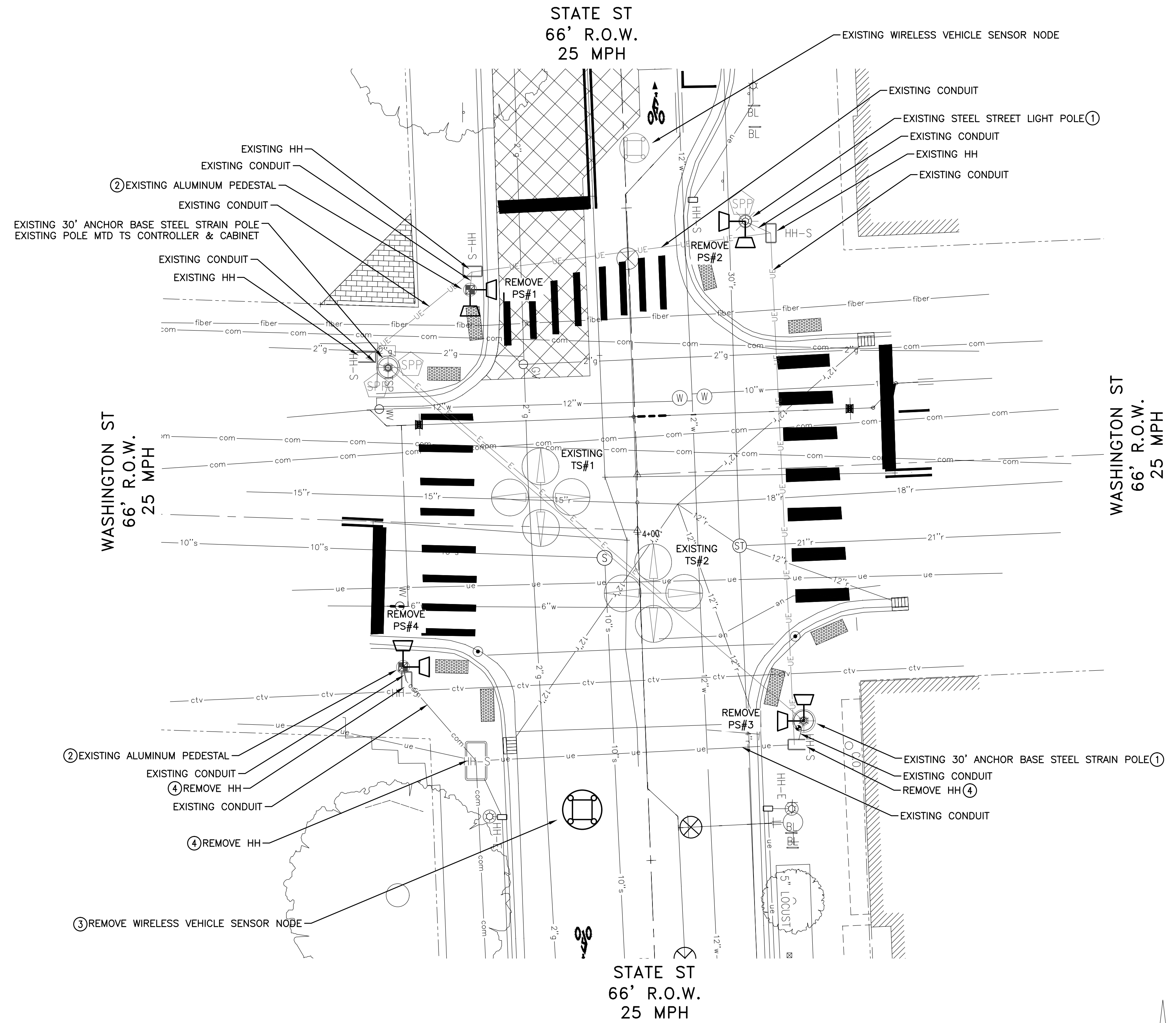
DOUBLE STACK HANDHOLE DETAIL

STATE ST STREETSCAPE - CITY OF ANN ARBOR						
SEE ABOVE						
BENCH MARK	SURVEY BOOK	100% BID SET	02-18-2022	DR. BY	CH. BY	APPROVED BY _____
REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY		
TRAFFIC SIGNAL DETAILS LEGEND & NOTES						SCALE INCH
DRAWING NO. C8.1						SHEET NO. _____ OF _____

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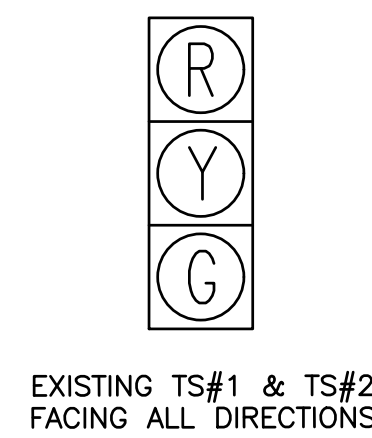


CABLING REMOVAL DIAGRAM
NOT TO SCALE

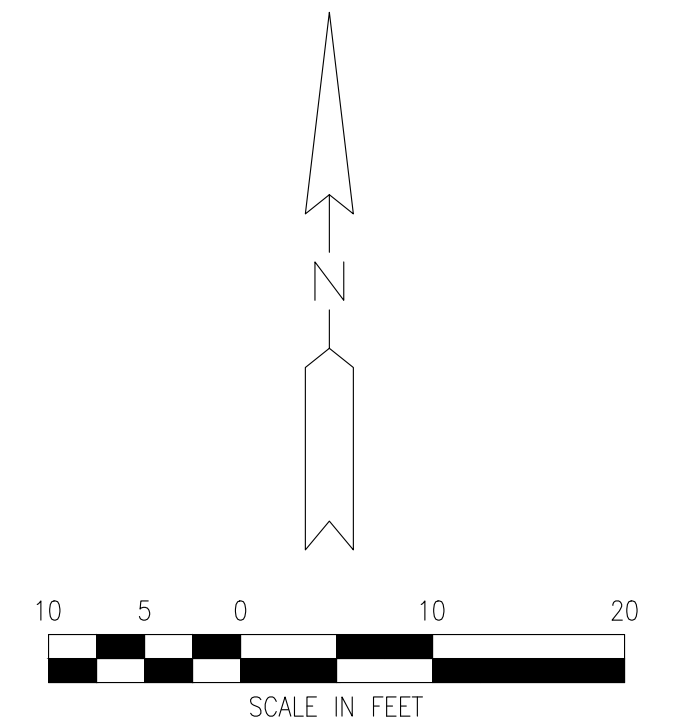


INTERSECTION SPECIFIC NOTES
 UNWIRING OF THE PEDESTRIAN SIGNAL HEADS SHALL BE INCLUDED IN THE PAY ITEMS "TS, PEDESTRIAN, BRACKET ARM MTD, REM" & "TS, PEDESTRIAN, PEDESTAL MTD, REM" AND WILL NOT BE PAID FOR SEPARATELY.
 HANDHOLES SHALL BE REMOVED AND REPLACED WHERE DIRECTED BY THE ENGINEER. RETAIN EXISTING HANDHOLES WHERE FEASIBLE OR AS DIRECTED BY THE ENGINEER.

LIST OF MATERIAL - REMOVAL		
NO.	ITEM	QUANTITIES
①	TS, Pedestrian, Bracket Arm Mtd, Rem	2 Ea
②	TS, Pedestrian, Pedestal Mtd, Rem	2 Ea
③	Wireless Vehicle Sensor Node, Rem	1 Ea
④	Hh, Rem	3 Ea



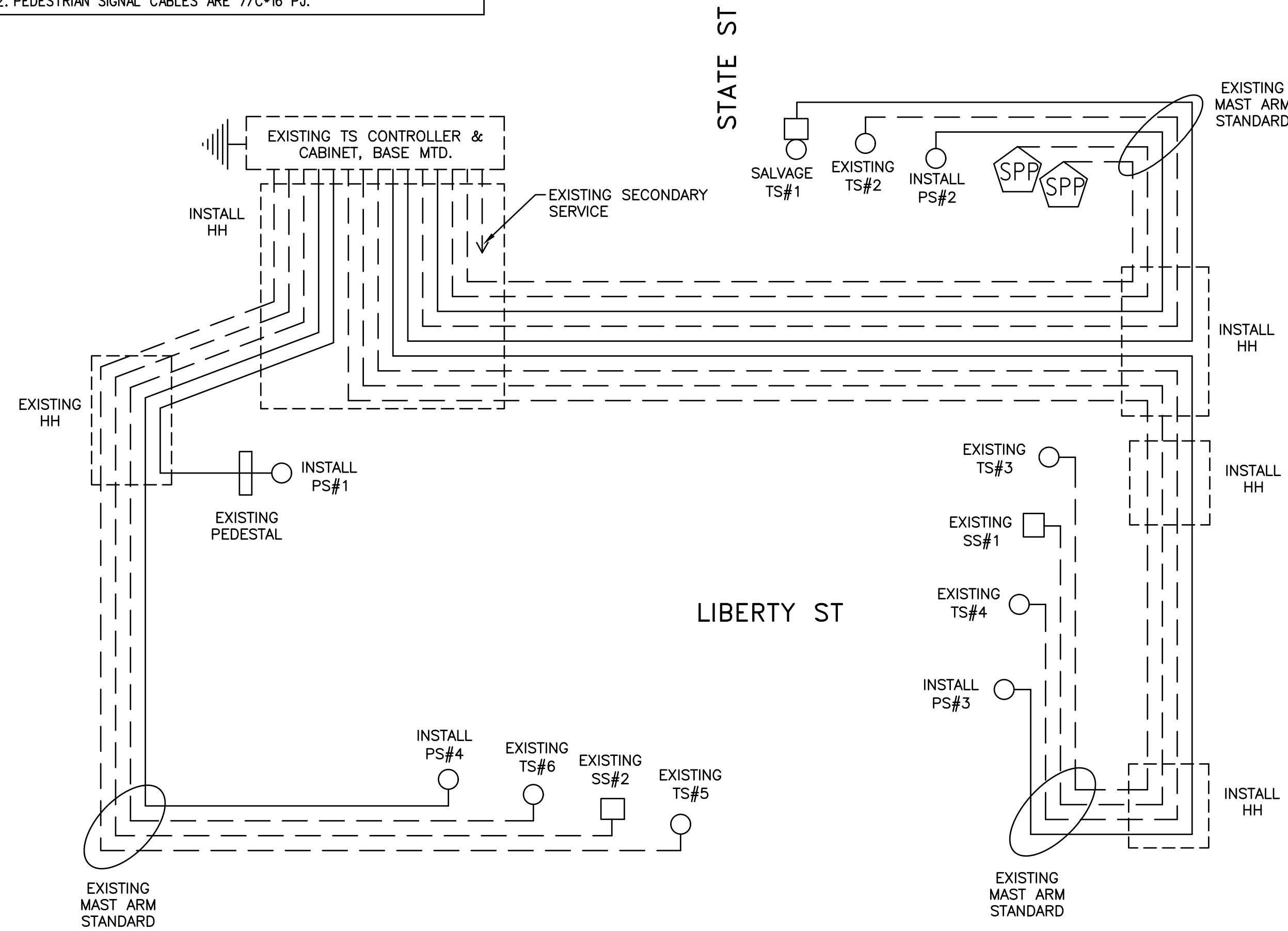
STAGE 2



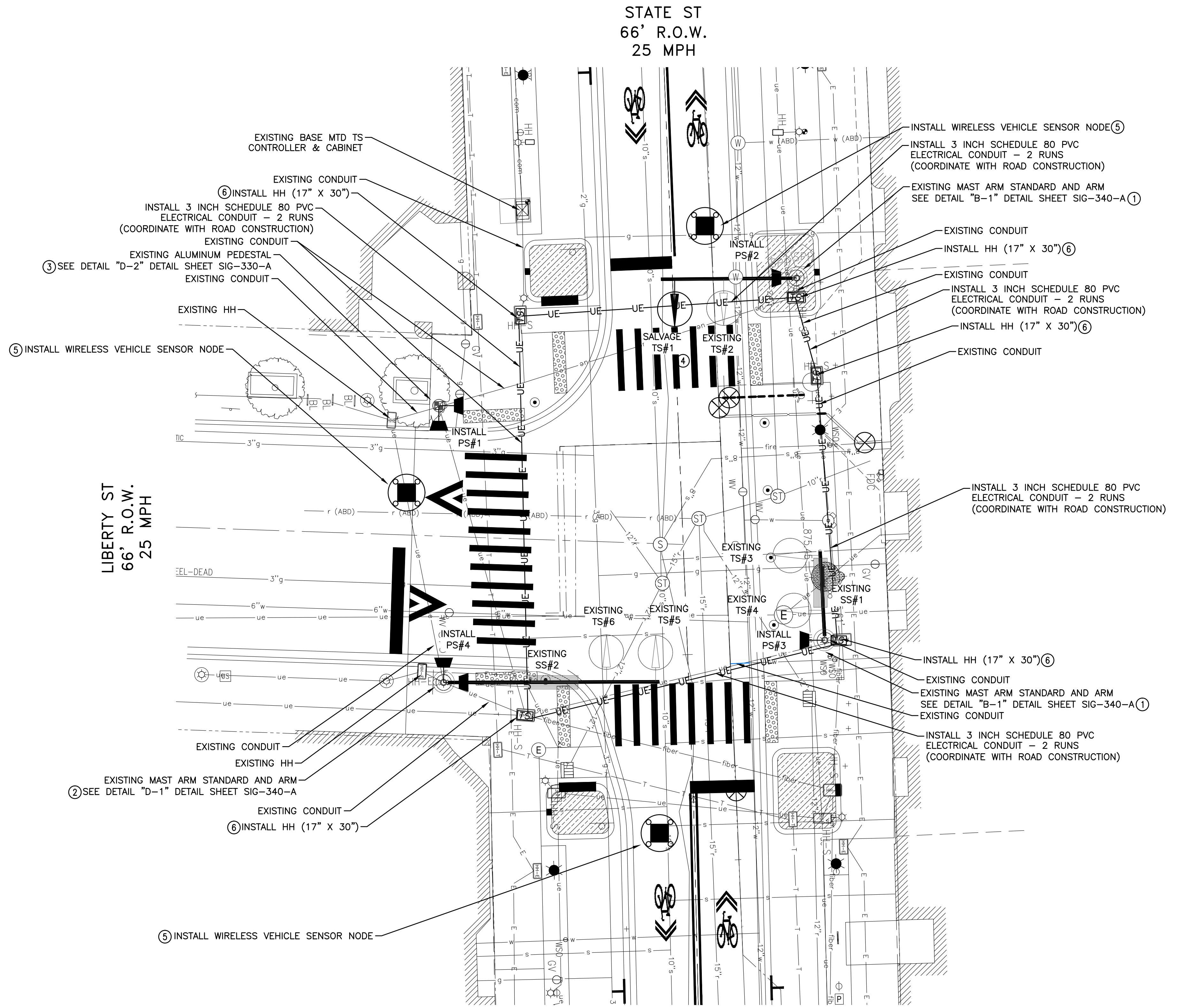
STATE ST STREETScape - CITY OF ANN ARBOR						
SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR.BY
				100% BID SET	02-18-2022	

TRAFFIC SIGNAL REMOVAL SHEET STATE ST @ WASHINGTON ST		SCALE INCH
DRAWING NO. C8.2		SHEET NO. ____ OF ____

CABLES TO BE USED UNLESS SPECIFIED OTHERWISE
 1. 1W-3C TRAFFIC SIGNAL CABLES ARE 7/C#16 P.J.
 2. PEDESTRIAN SIGNAL CABLES ARE 7/C#16 P.J.



CABLING INSTALLATION DIAGRAM
 NOT TO SCALE



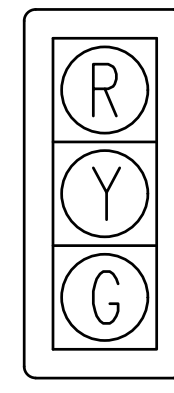
INTERSECTION SPECIFIC NOTES

WIRING OF THE TRAFFIC & COUNTDOWN PEDESTRIAN SIGNALS SHALL BE INCLUDED IN THE PAY ITEMS "TS, PEDESTRIAN, --- WAY BRACKET ARM MTD (LED) COUNTDOWN" & "TS, PEDESTRIAN, --- WAY PEDESTAL MTD (LED) COUNTDOWN" & "TS, ONE WAY MAST ARM MTD, SALV" AND WILL NOT BE PAID FOR SEPARATELY.

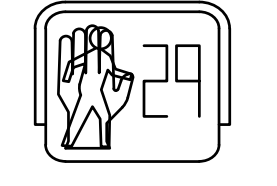
WHERE PRACTICAL AND AS DIRECTED BY THE CITY SIGNAL DEPARTMENT, THE CONTRACTOR SHALL CONNECT PROPOSED HANDHOLES (SHOWN ON PLAN) WITH PROPOSED LIGHTING/ITS HANDHOLES WITH CONDUIT, DB, 1-3" (A MISCELLANEOUS QUANTITY HAS BEEN PROVIDED FOR THIS WORK). PRIOR TO WORK CONTRACTOR TO MEET WITH CITY TO GO OVER ANY ADDITIONAL HANDHOLE UP-SIZING OR CONNECTIONS AT EACH INTERSECTION.

HANDHOLE REPLACEMENTS AND SPARE 2-3 INCH CONDUIT SHALL BE INSTALLED WHERE DIRECTED BY THE ENGINEER. RETAIN EXISTING HANDHOLES WHERE FEASIBLE OR AS DIRECTED BY THE ENGINEER. ELEVATIONS TO BE COORDINATED WITH THE PROPOSED SURFACE ELEVATION AT TIME OF INSTALLATION.

NO.	ITEM	QUANTITIES
①	TS, Pedestrian, One Way Bracket Arm Mtd (LED) Countdown	2 Ea
②	TS, Pedestrian, Two Way Bracket Arm Mtd (LED) Countdown	1 Ea
③	TS, Pedestrian, Two Way Pedestal Mtd (LED) Countdown	1 Ea
④	TS, One Way Mast Arm Mtd, Salv	1 Ea
⑤	Wireless Vehicle Sensor Node	3 Ea
⑥	Handhole Assembly, 17 inch x 30 inch	5 Ea
⑦	3 inch Schedule 80 PVC Electrical Conduit	440 Lft



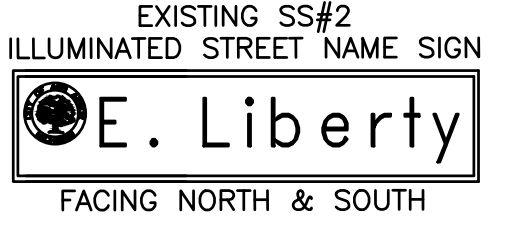
SALVAGE TS#1 FACING SOUTH
 EXISTING TS#2 FACING SOUTH
 EXISTING TS#3 & TS#4 FACING WEST
 EXISTING TS#5 & TS#6 FACING NORTH



L.E.D. PEDESTRIAN
 COUNTDOWN HEAD

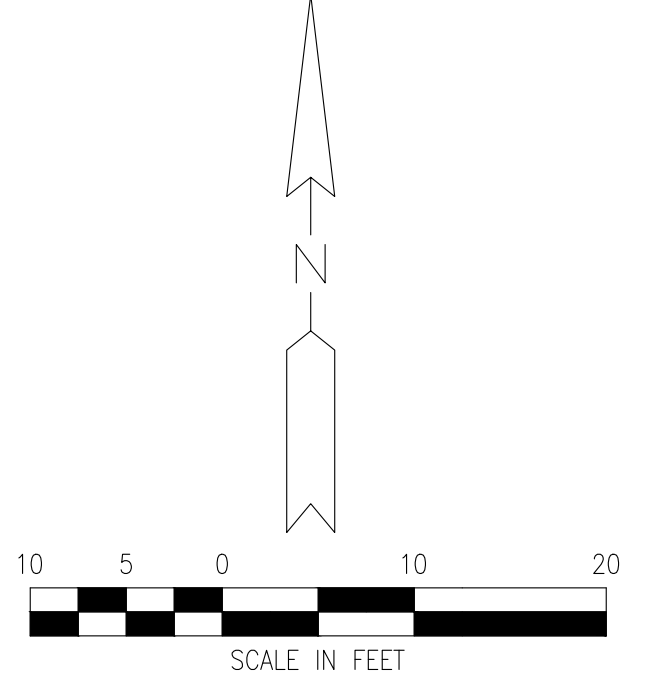


EXISTING SS#1
 ILLUMINATED STREET NAME SIGN
 FACING WEST



EXISTING SS#2
 ILLUMINATED STREET NAME SIGN
 FACING NORTH & SOUTH

STAGE 2

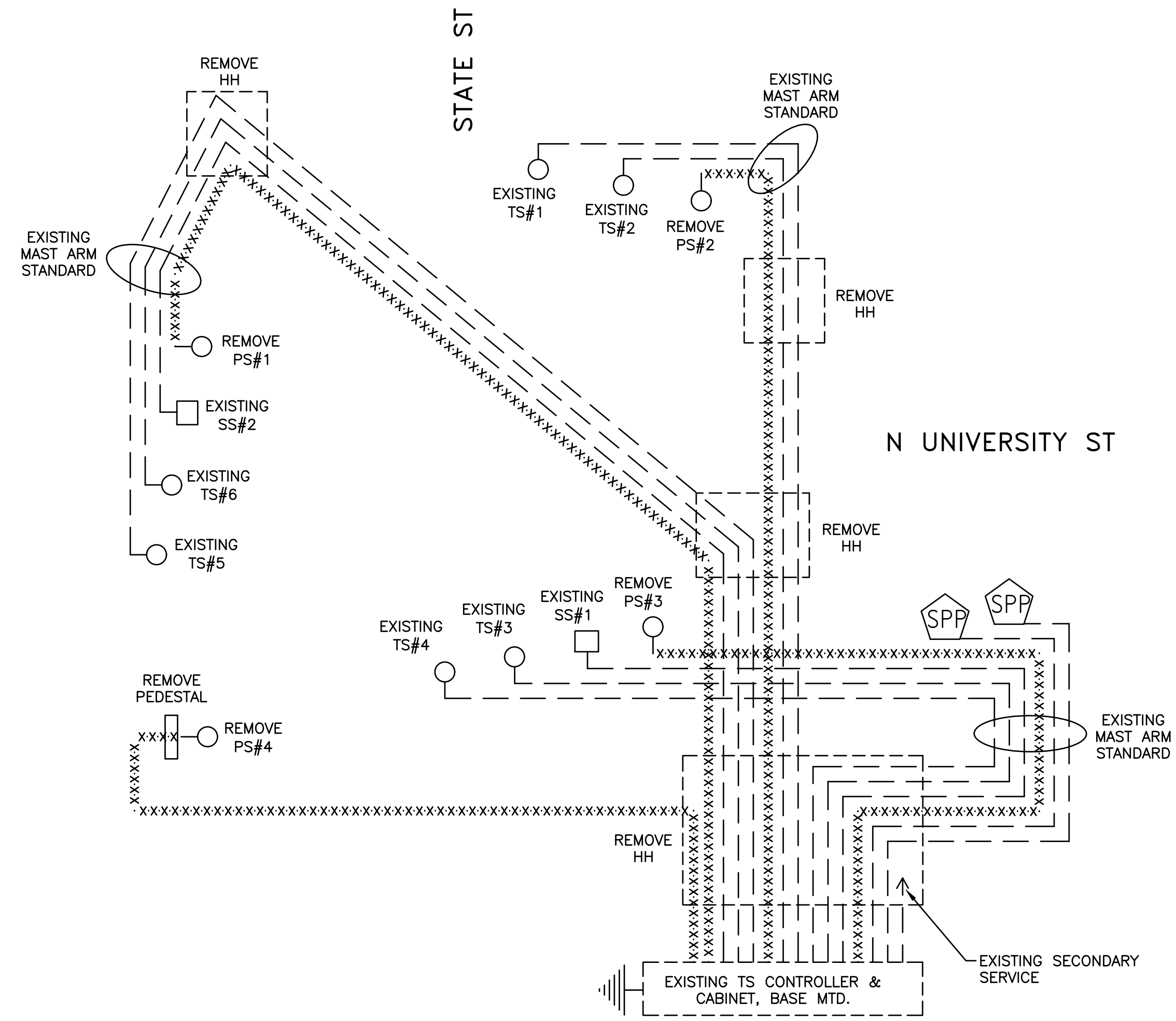


STATE ST STREETScape - CITY OF ANN ARBOR						
SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY
			100% BID SET		02-18-2022	

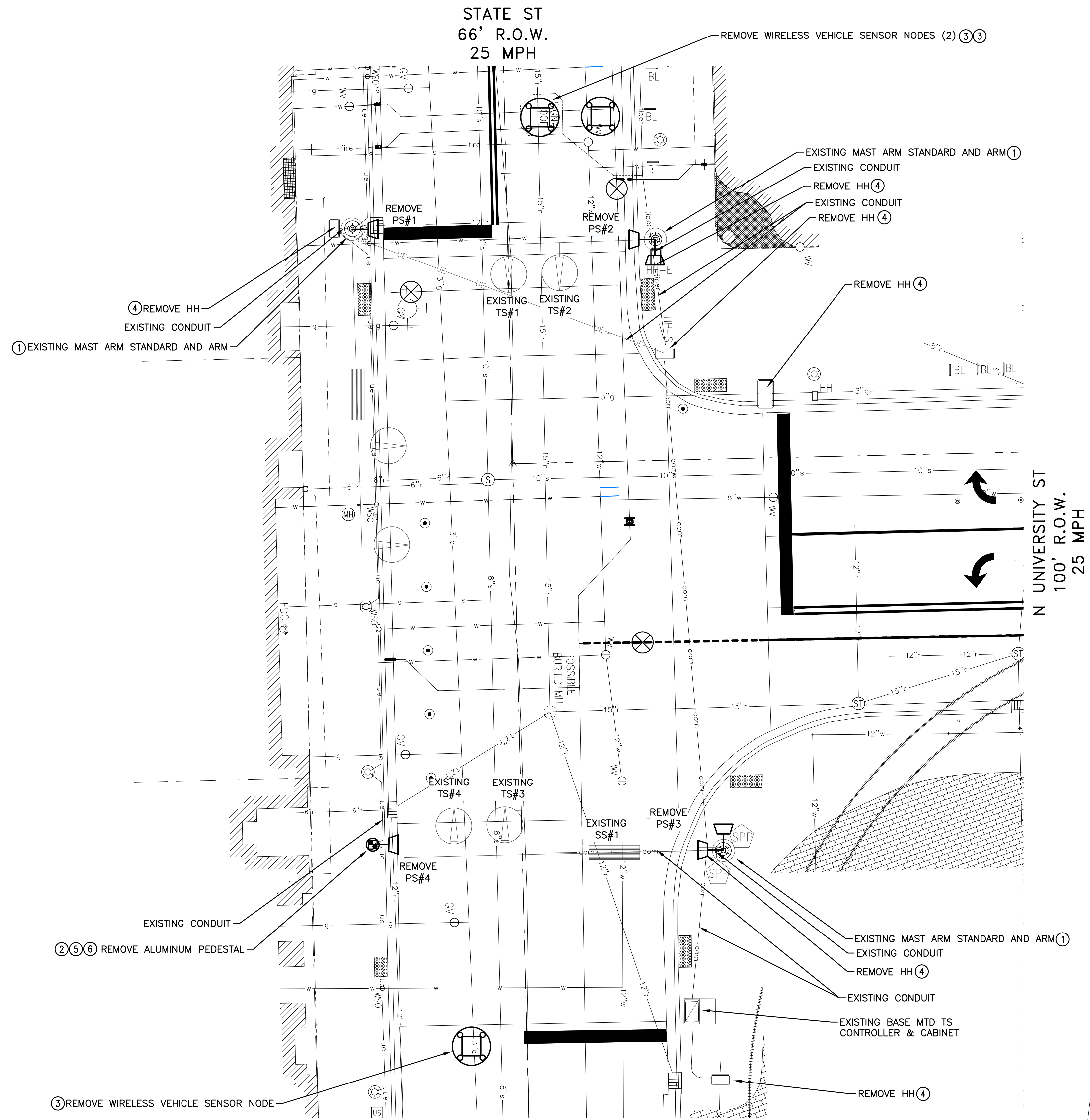
TRAFFIC SIGNAL CONSTRUCTION SHEET STATE ST @ LIBERTY ST		SCALE INCH
DRAWING NO. C8.5		SHEET NO. ____ OF ____

FILE: C:\Users\jcorusso\AppData\Local\Temp\AcPublish_21944\CTS-P1\TS-TrafficSignals-StateStreet.dwg USER: jcorusso DATE: Feb, 18, 2022 TIME: 01:04 pm

FILE C:\Users\jcorusso\AppData\Local\Temp\AcPublish_21944\CTS-PLS-TrafficSignals-StateStreet.dwg USER: jcorusso DATE: Feb, 18, 2022 TIME: 01:04 pm



CABLING REMOVAL DIAGRAM
NOT TO SCALE



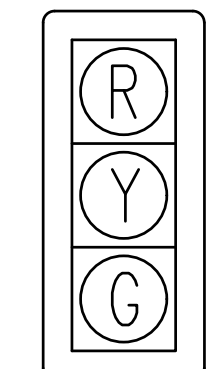
STATE ST
100' R.O.W.
25 MPH

STAGE 1

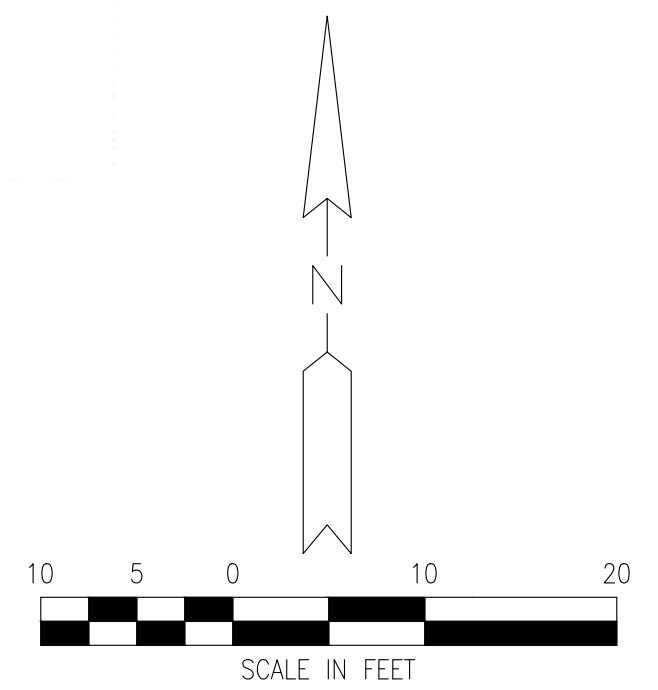
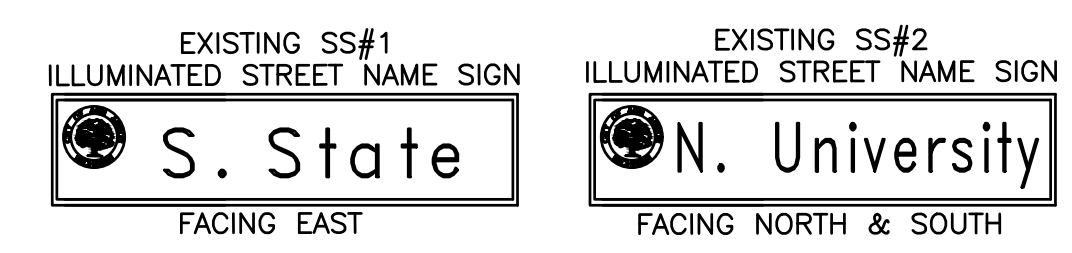
INTERSECTION SPECIFIC NOTES
UNWIRING OF THE PEDESTRIAN SIGNAL HEADS SHALL BE INCLUDED IN THE PAY ITEMS "TS, PEDESTRIAN, BRACKET ARM MTD, REM" & "TS, PEDESTRIAN, PEDESTAL MTD, REM" AND WILL NOT BE PAID FOR SEPARATELY.
HANDHOLES SHALL BE REMOVED AND REPLACED WHERE DIRECTED BY THE ENGINEER. RETAIN EXISTING HANDHOLES WHERE FEASIBLE OR AS DIRECTED BY THE ENGINEER.

LIST OF MATERIAL - REMOVAL

NO.	ITEM	QUANTITIES
①	TS, Pedestrian, Bracket Arm Mtd, Rem	3 Ea
②	TS, Pedestrian, Pedestal Mtd, Rem	1 Ea
③	Wireless Vehicle Sensor Node, Rem	3 Ea
④	Hh, Rem	6 Ea
⑤	Pedestal, Rem	1 Ea
⑥	Pedestal Fdn, Rem	1 Ea



EXISTING TS#1 & TS#2 FACING SOUTH
EXISTING TS#3 & TS#4 FACING NORTH
EXISTING TS#5 & TS#6 FACING EAST



SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
				100% BID SET	02-18-2022		

STATE ST STREETScape - CITY OF ANN ARBOR

TRAFFIC SIGNAL REMOVAL SHEET
STATE ST @ N UNIVERSITY ST

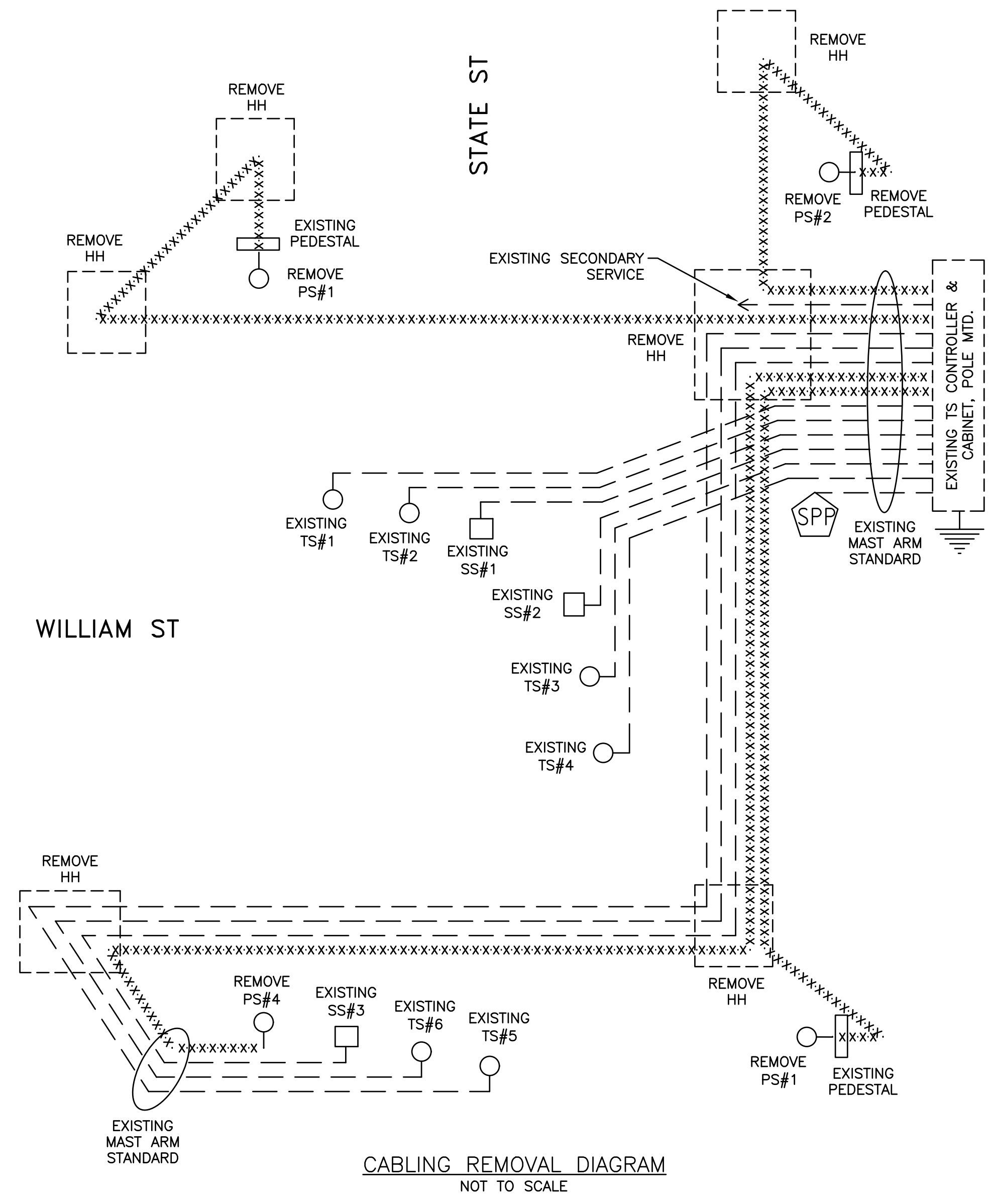
SCALE: INCH

DRAWING NO. **C8.6**

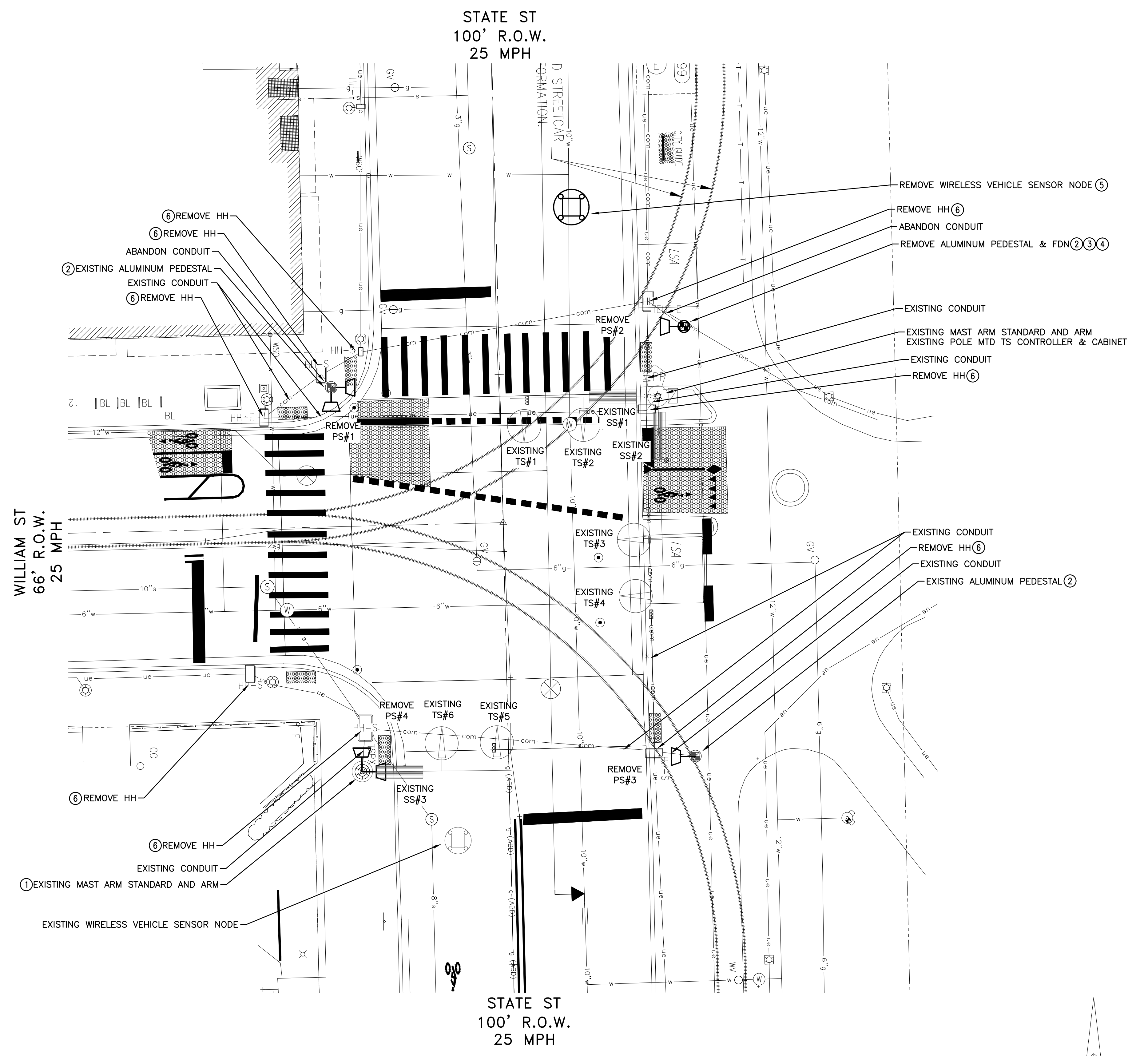
SHEET NO. ___ OF ___

APPROVED BY: _____

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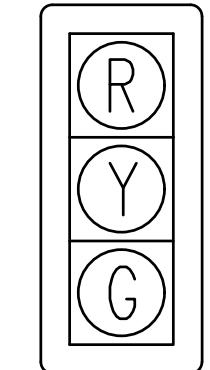
CABLING REMOVAL DIAGRAM
NOT TO SCALE



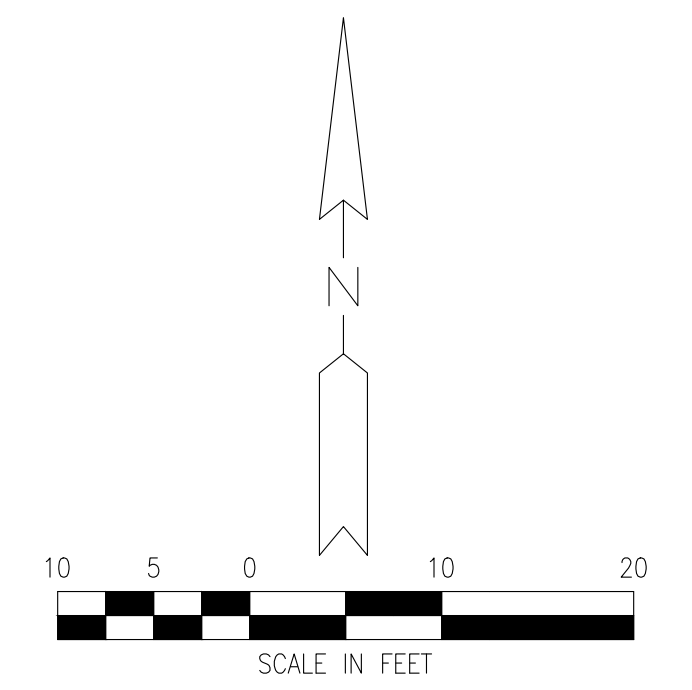
INTERSECTION SPECIFIC NOTES
 UNWIRING OF THE PEDESTRIAN SIGNAL HEADS SHALL BE INCLUDED IN THE PAY ITEMS "TS, PEDESTRIAN, BRACKET ARM MTD, REM" & "TS, PEDESTRIAN, PEDESTAL MTD, REM" AND WILL NOT BE PAID FOR SEPARATELY.
 HANDHOLES SHALL BE REMOVED AND REPLACED WHERE DIRECTED BY THE ENGINEER. RETAIN EXISTING HANDHOLES WHERE FEASIBLE OR AS DIRECTED BY THE ENGINEER.

LIST OF MATERIAL - REMOVAL

NO.	ITEM	QUANTITIES
①	TS, Pedestrian, Bracket Arm Mtd, Rem	1 Ea
②	TS, Pedestrian, Pedestal Mtd, Rem	3 Ea
③	Pedestal, Rem	1 Ea
④	Pedestal Fdn, Rem	1 Ea
⑤	Wireless Vehicle Sensor Node, Rem	1 Ea
⑥	Hh, Rem	8 Ea

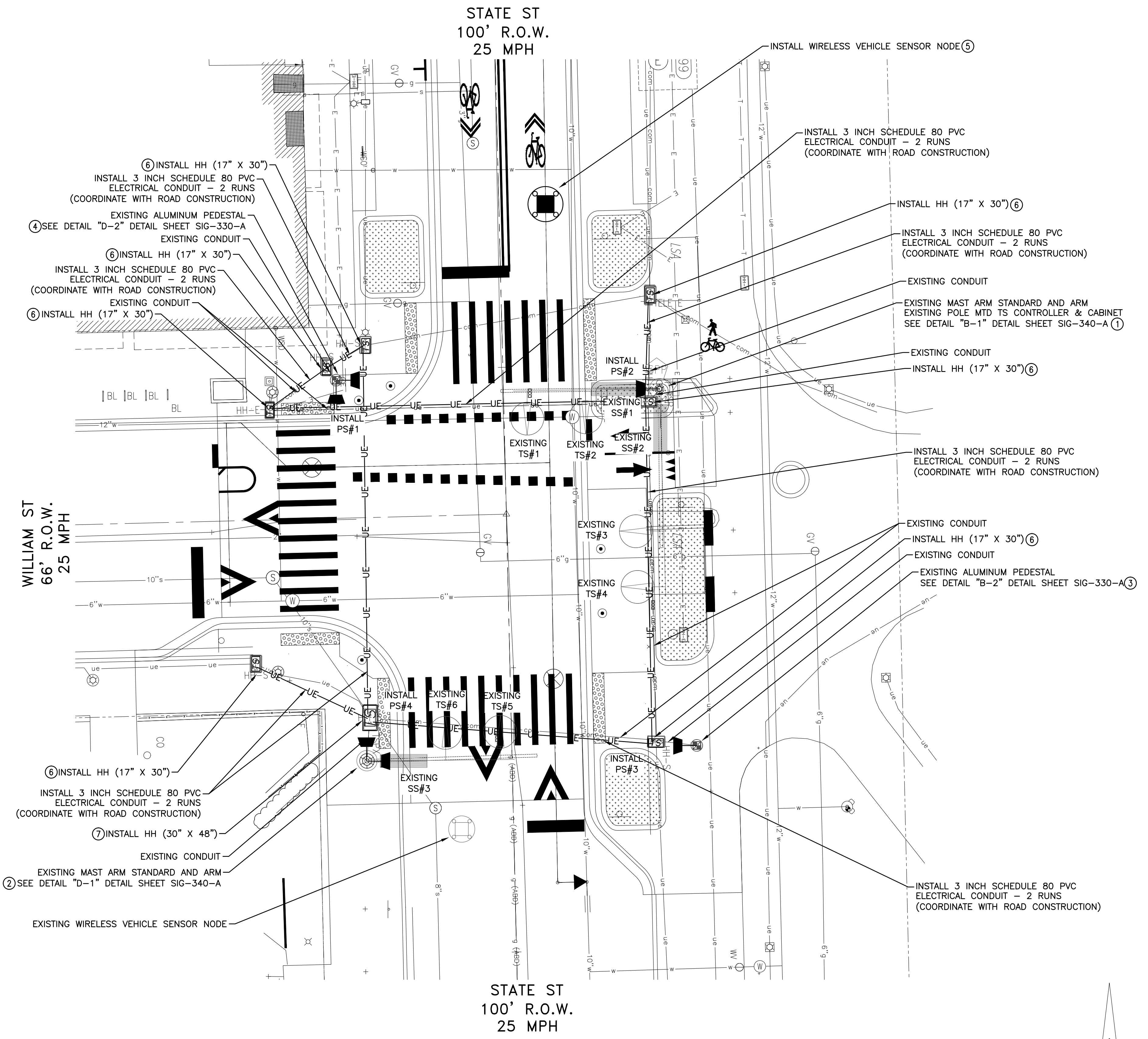
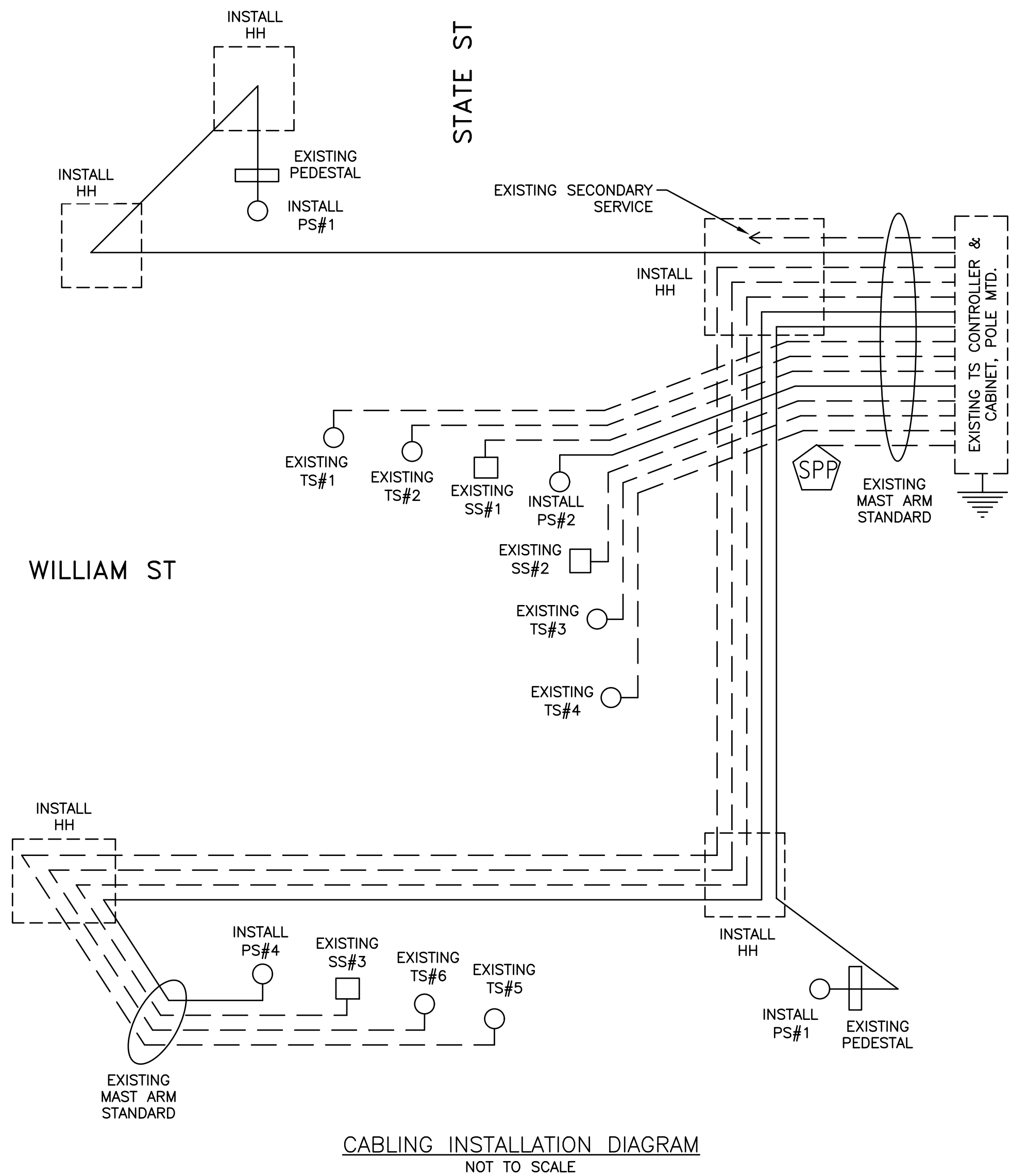


EXISTING TS#1 & TS#2 FACING SOUTH
 EXISTING TS#3 & TS#4 FACING WEST
 EXISTING TS#5 & TS#6 FACING NORTH



STATE ST STREETScape - CITY OF ANN ARBOR						
SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY
				100% BID SET	02-18-2022	
TRAFFIC SIGNAL REMOVAL SHEET STATE ST @ WILLIAM ST						
APPROVED BY _____						SCALE INCH
						DRAWING NO. C8.8
						SHEET NO. ____ OF ____

CABLES TO BE USED UNLESS SPECIFIED OTHERWISE
 1. PEDESTRIAN SIGNAL CABLES ARE 7/C*16 PJ.



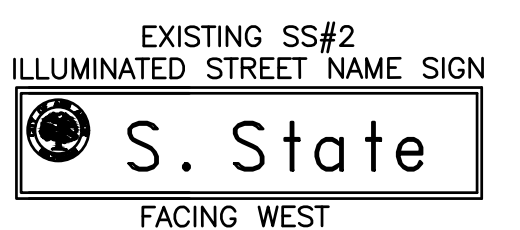
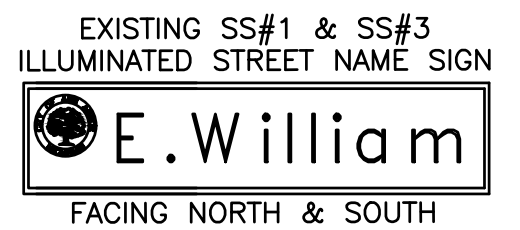
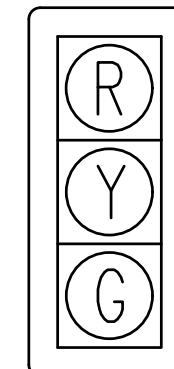
INTERSECTION SPECIFIC NOTES

WIRING OF THE COUNTDOWN PEDESTRIAN SIGNALS SHALL BE INCLUDED IN THE PAY ITEMS "TS, PEDESTRIAN, ___ WAY BRACKET ARM MTD (LED) COUNTDOWN" & "TS, PEDESTRIAN, ___ WAY PEDESTAL MTD (LED) COUNTDOWN" AND WILL NOT BE PAID FOR SEPARATELY.

WHERE PRACTICAL AND AS DIRECTED BY THE CITY SIGNAL DEPARTMENT, THE CONTRACTOR SHALL CONNECT PROPOSED HANDHOLES (SHOWN ON PLAN) WITH PROPOSED LIGHTING/ITS HANDHOLES WITH CONDUIT, DB, 1-3" (A MISCELLANEOUS QUANTITY HAS BEEN PROVIDED FOR THIS WORK). PRIOR TO WORK CONTRACTOR TO MEET WITH CITY TO GO OVER ANY ADDITIONAL HANDHOLE UP-SIZING OR CONNECTIONS AT EACH INTERSECTION.

HANDHOLE REPLACEMENTS AND SPARE 2-3 INCH CONDUIT SHALL BE INSTALLED WHERE DIRECTED BY THE ENGINEER. RETAIN EXISTING HANDHOLES WHERE FEASIBLE OR AS DIRECTED BY THE ENGINEER. ELEVATIONS TO BE COORDINATED WITH THE PROPOSED SURFACE ELEVATION AT TIME OF INSTALLATION.

LIST OF MATERIAL - CONSTRUCTION		
NO.	ITEM	QUANTITIES
1	TS, Pedestrian, One Way Bracket Arm Mtd (LED) Countdown	1 Ea
2	TS, Pedestrian, Two Way Bracket Arm Mtd (LED) Countdown	1 Ea
3	TS, Pedestrian, One Way Pedestal Mtd (LED) Countdown	1 Ea
4	TS, Pedestrian, Two Way Pedestal Mtd (LED) Countdown	1 Ea
5	Wireless Vehicle Sensor Node	1 Ea
6	Handhole Assembly, 17 inch x 30 inch	7 Ea
7	Handhole Assembly, 30 inch x 48 inch	1 Ea
8	3 inch Schedule 80 PVC Electrical Conduit	580 Lft

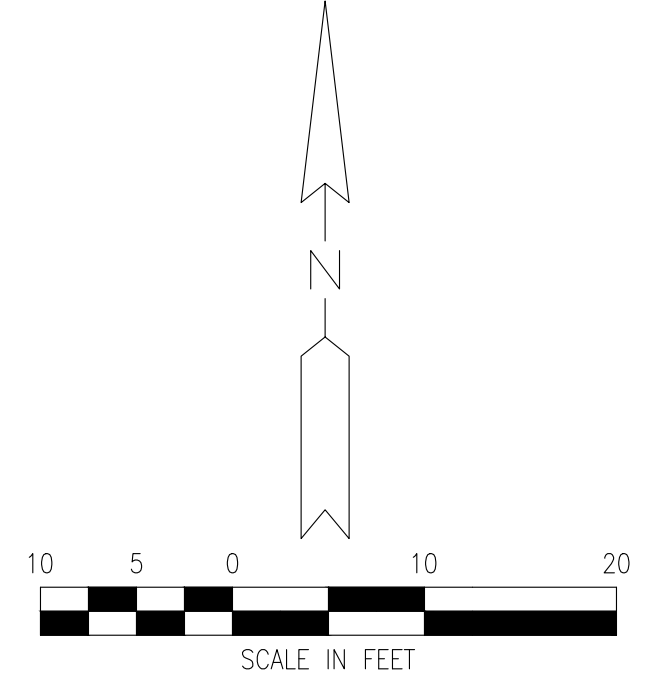


EXISTING TS#1 & TS#2 FACING SOUTH
 EXISTING TS#3 & TS#4 FACING WEST
 EXISTING TS#5 & TS#6 FACING NORTH

L.E.D. PEDESTRIAN
 COUNTDOWN HEAD

FACING NORTH & SOUTH

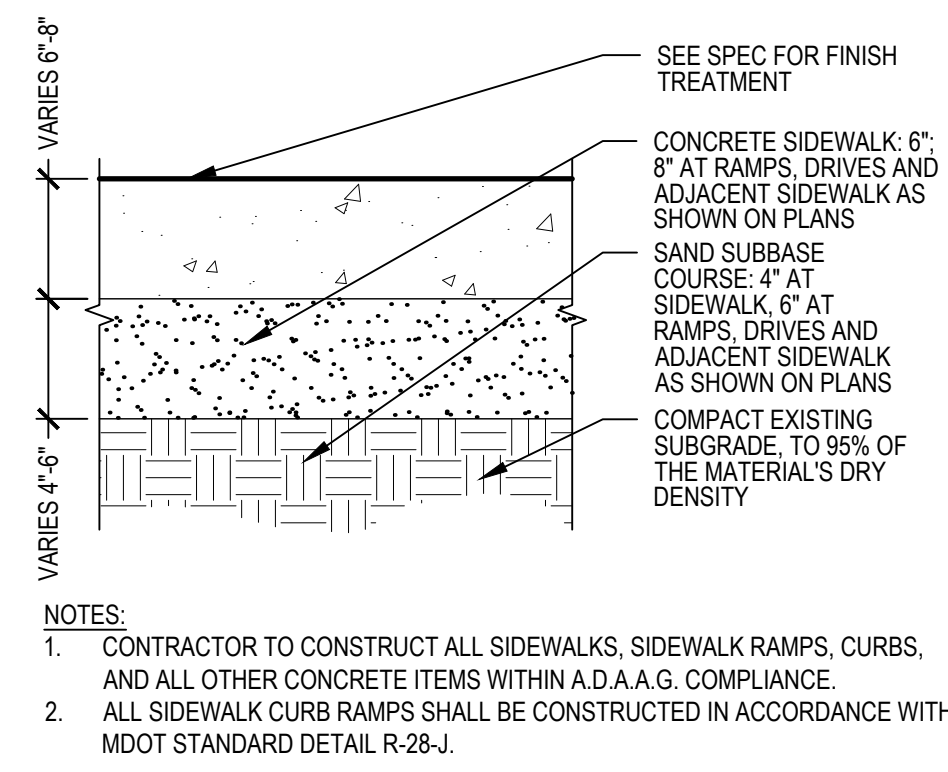
FACING WEST



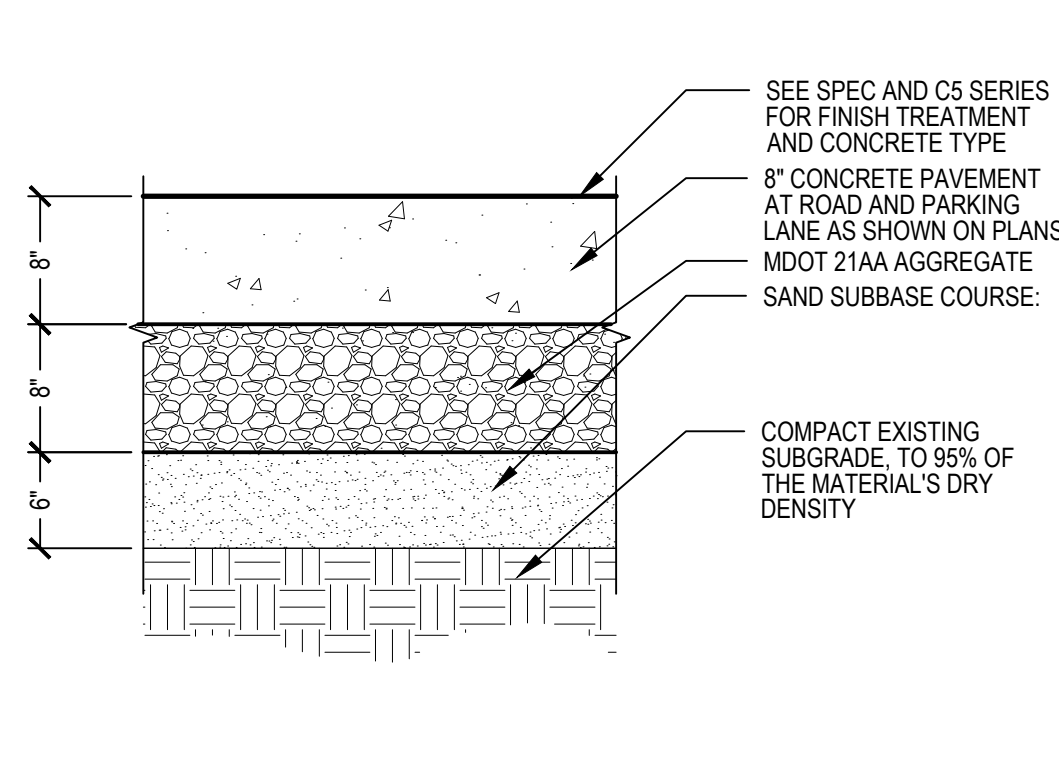
STAGE 1

STATE ST STREETScape - CITY OF ANN ARBOR						
TRAFFIC SIGNAL CONSTRUCTION SHEET						
STATE ST @ WILLIAM ST						
SEE ABOVE						
BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
			100% BID SET	02-18-2022		
APPROVED BY _____						SCALE INCH
						DRAWING NO. C8.9
						SHEET NO. ____ OF ____

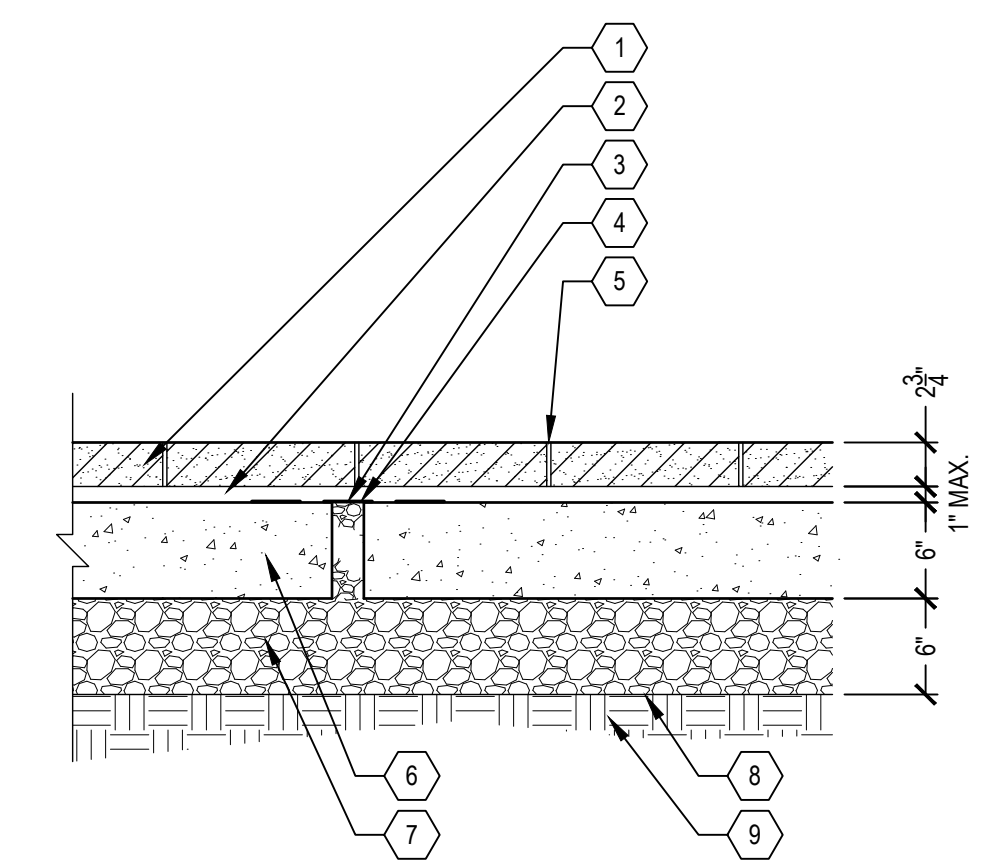
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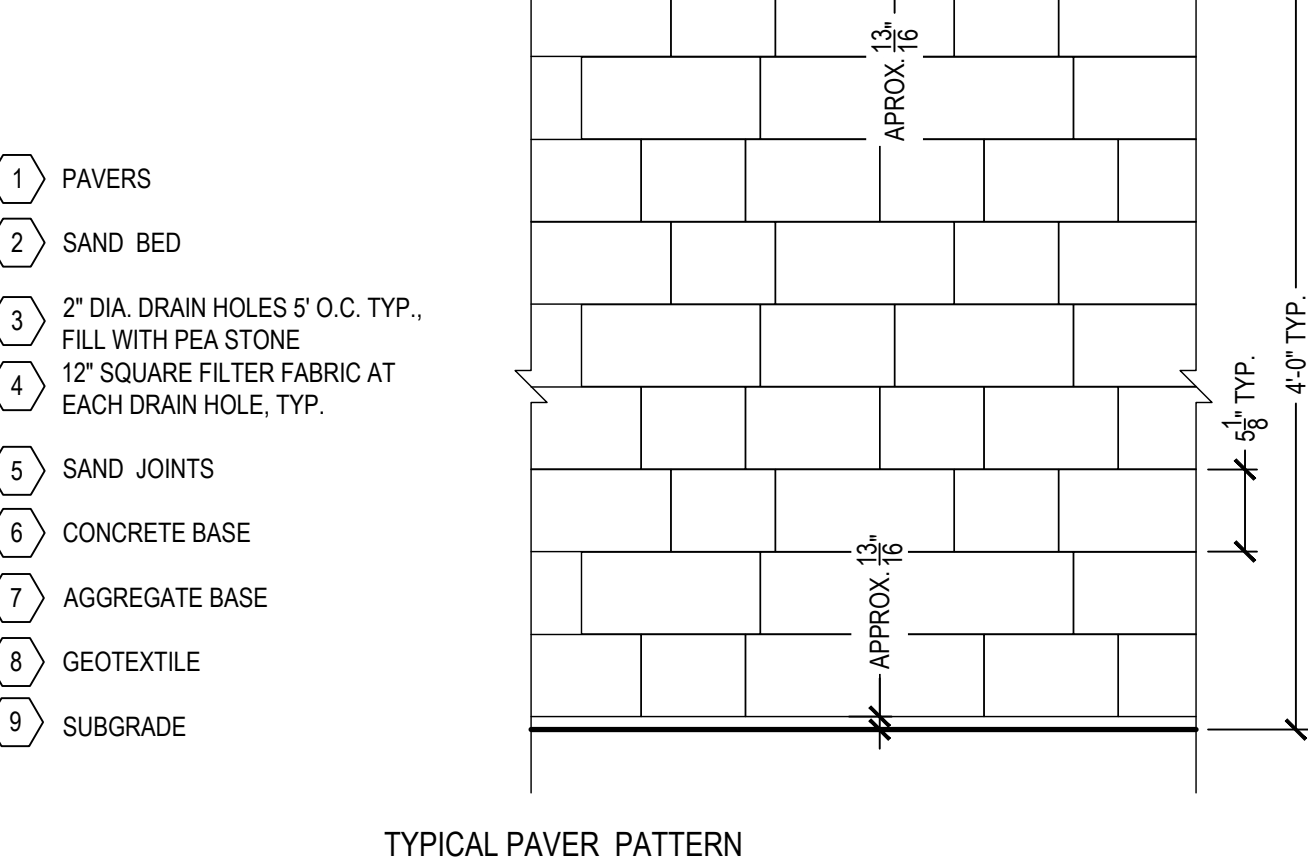
1 CONCRETE SIDEWALK SCALE: NTS



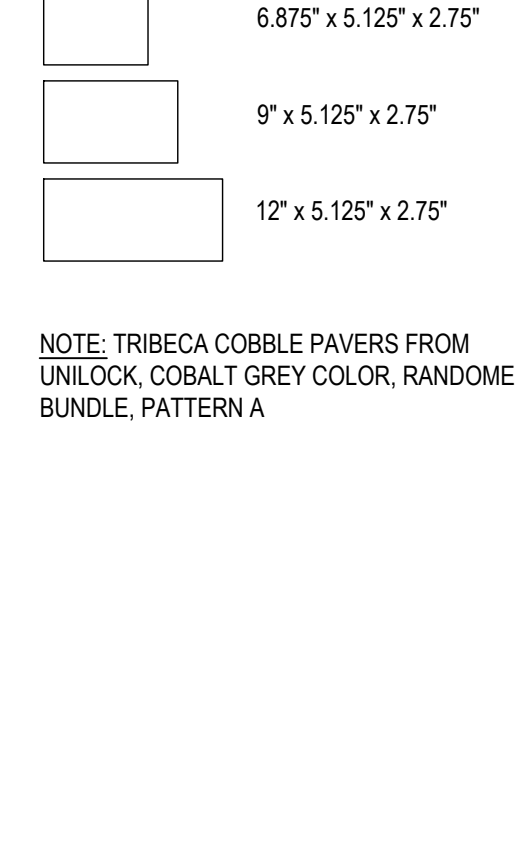
2 ROAD CONCRETE PAVEMENT SCALE: NTS



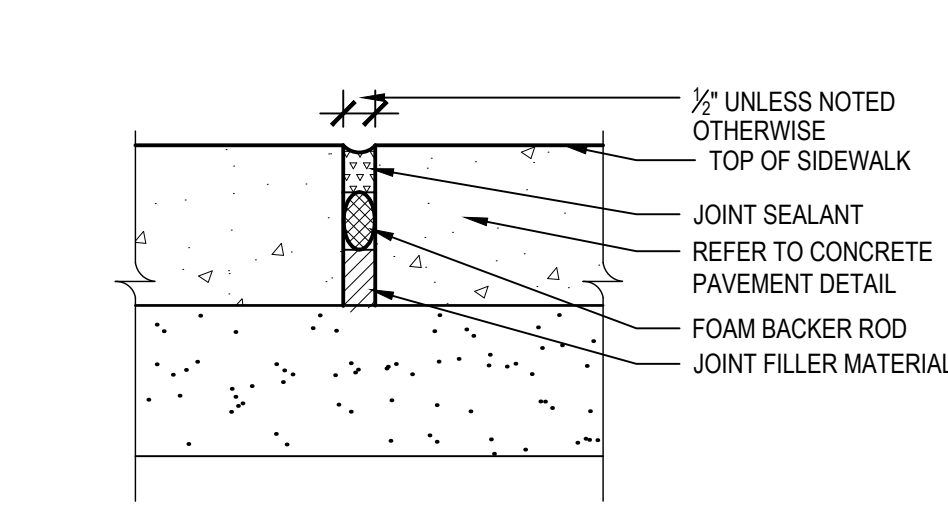
3 PAVERS SCALE: NTS



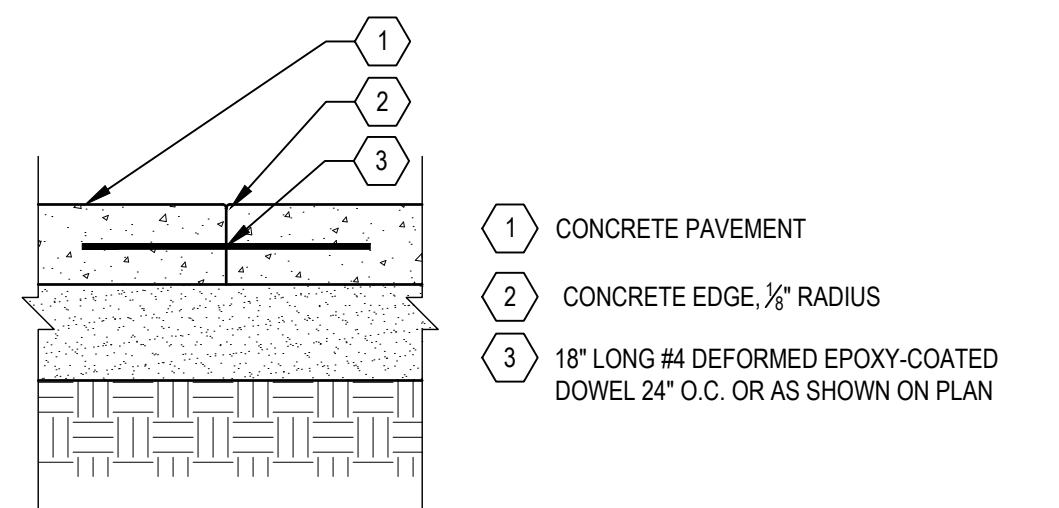
TYPICAL PAVER PATTERN SCALE: NTS



4 VALLEY GUTTER SCALE: NTS



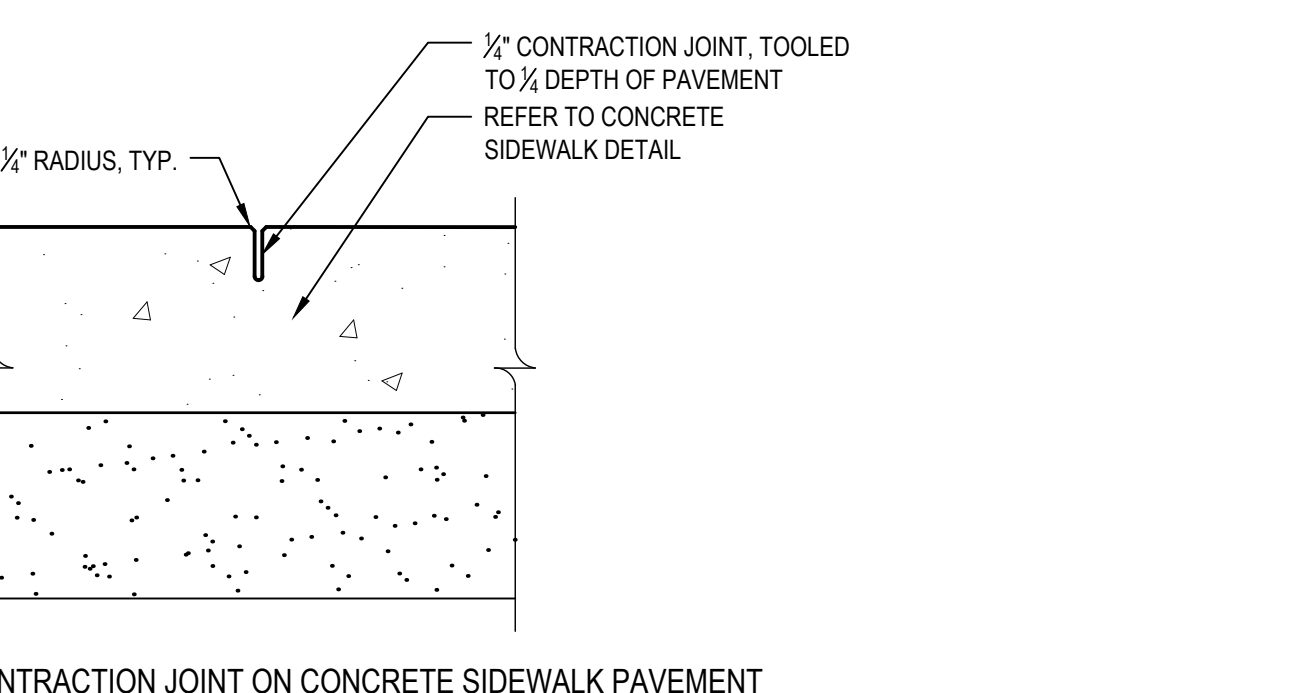
6 EXPANSION JOINT SCALE: NTS



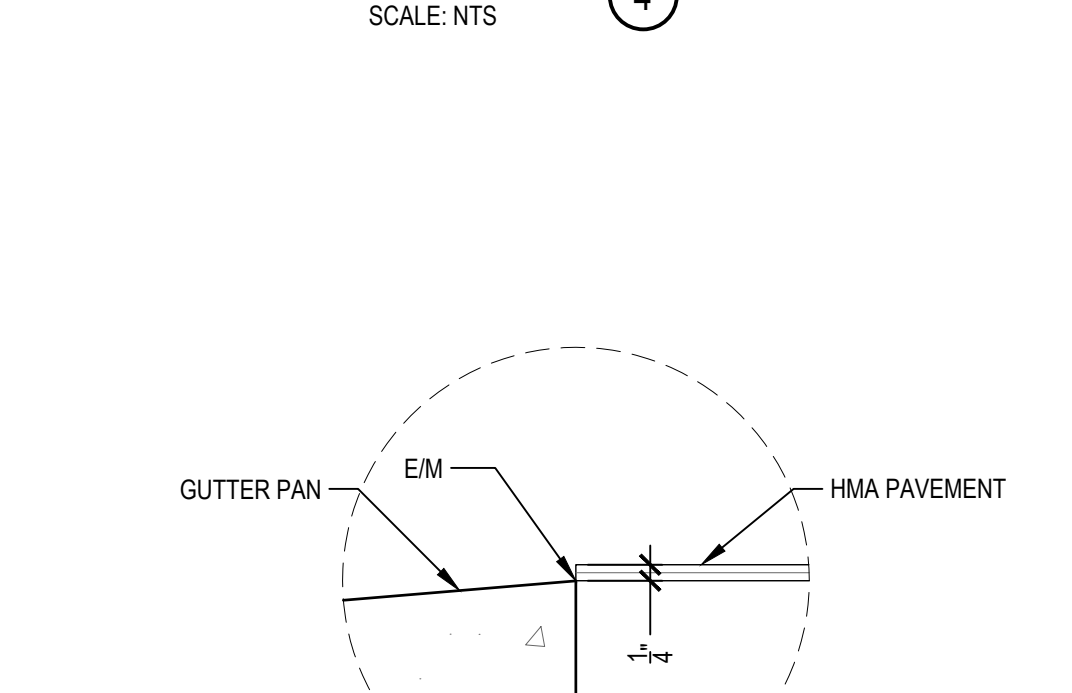
7 ISOLATION JOINT ON SIDEWALK SCALE: NTS



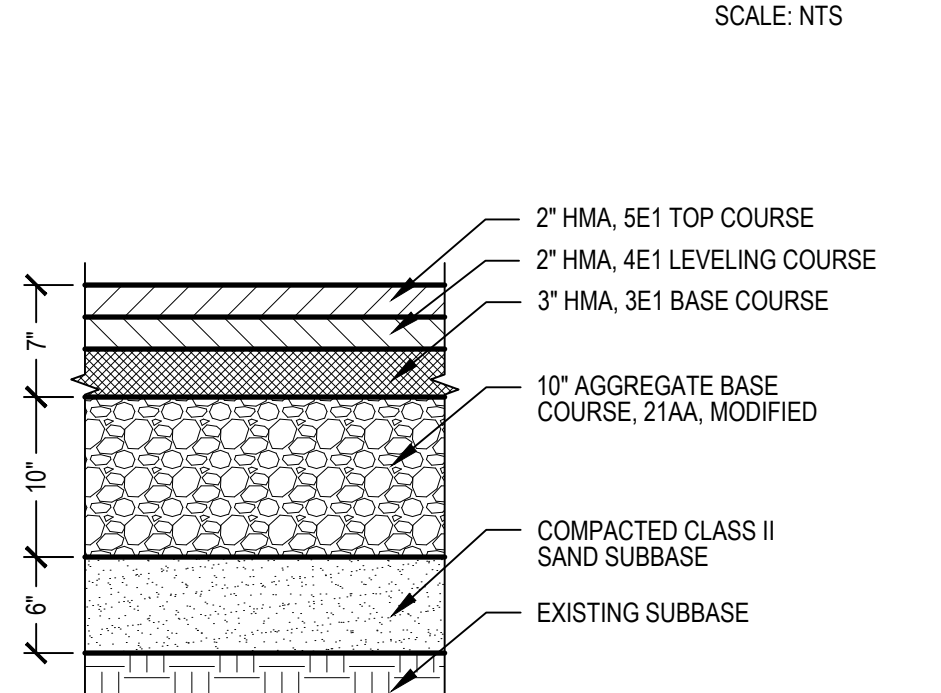
CONTRACTION JOINT ON CONCRETE SIDEWALK PAVEMENT SCALE: NTS



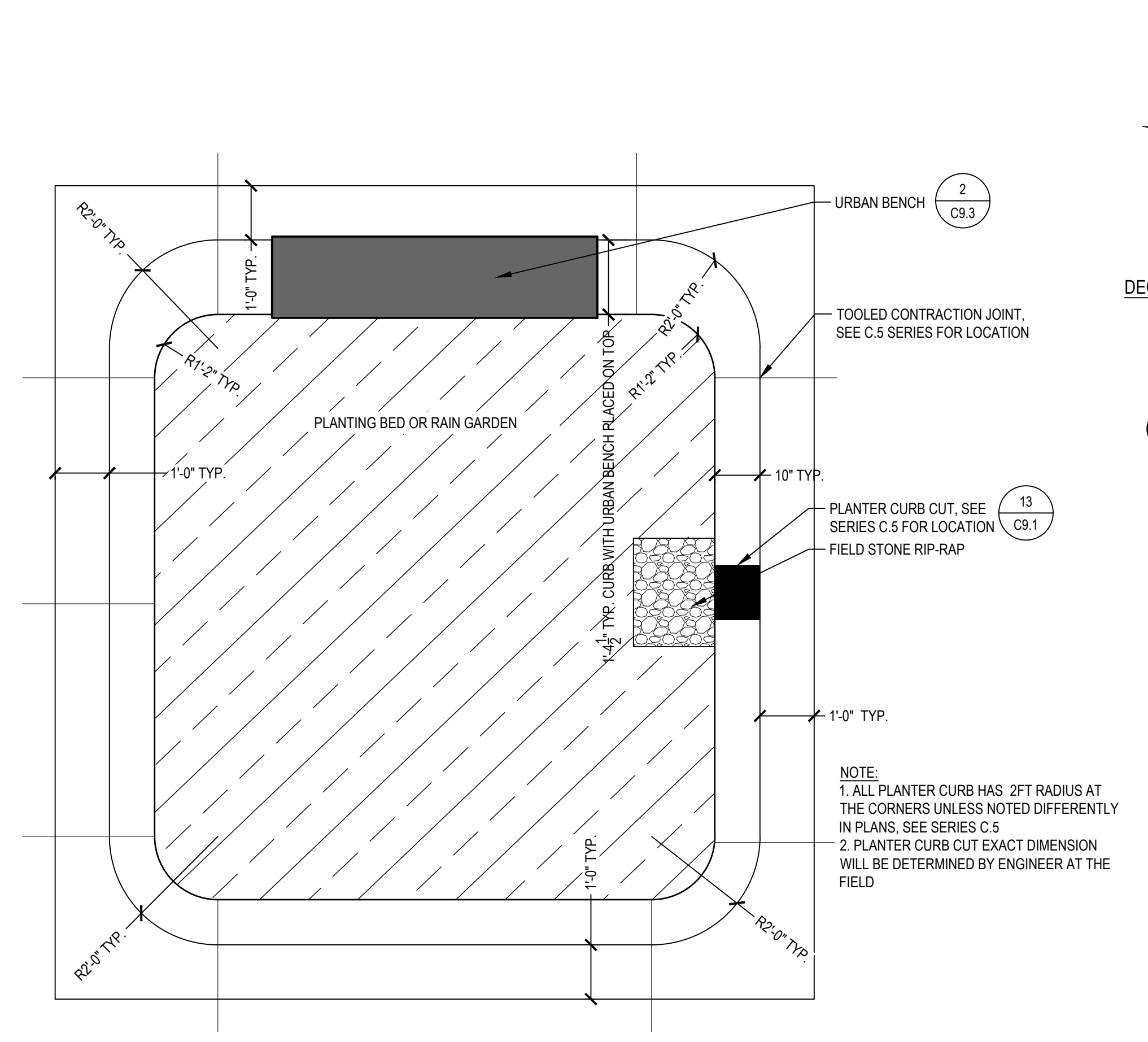
5 DECORATIVE JOINT SCALE: NTS



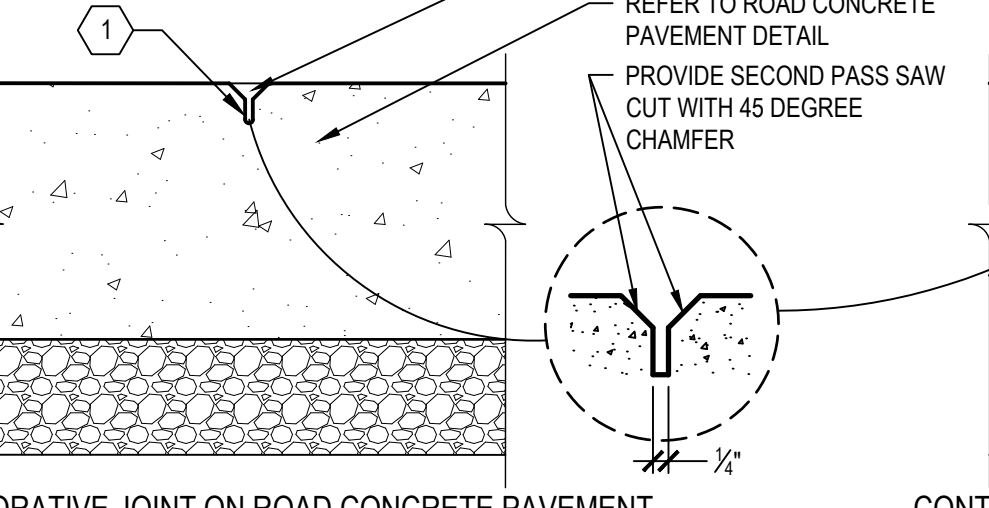
9 STANDARD CURB AND GUTTER - 24 INCH SCALE: NTS



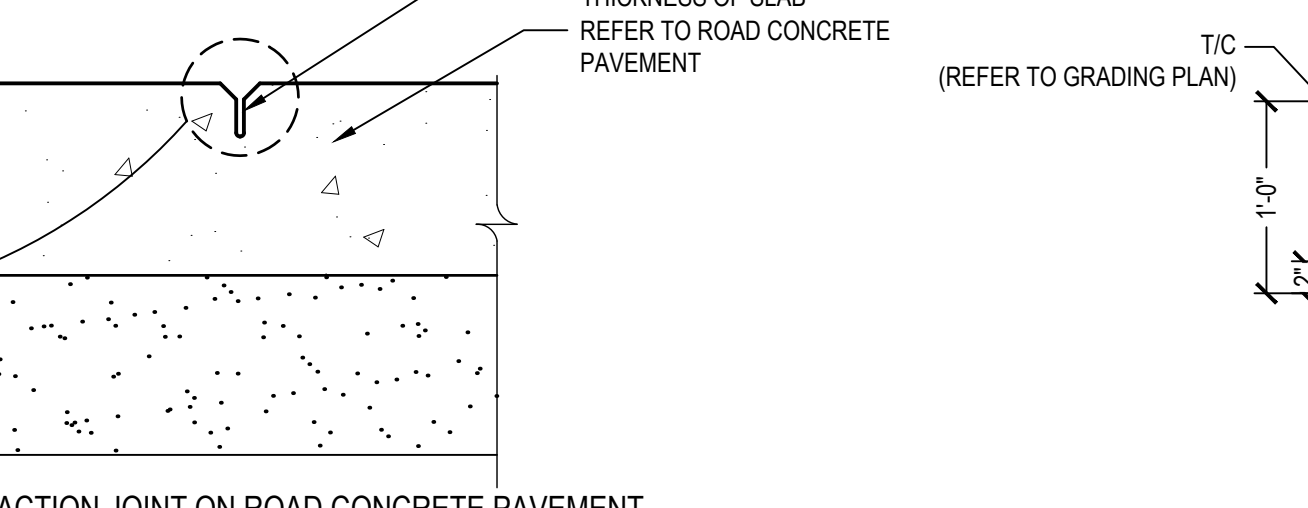
10 HMA PAVEMENT, FULL DEPTH REPLACEMENT SCALE: NTS



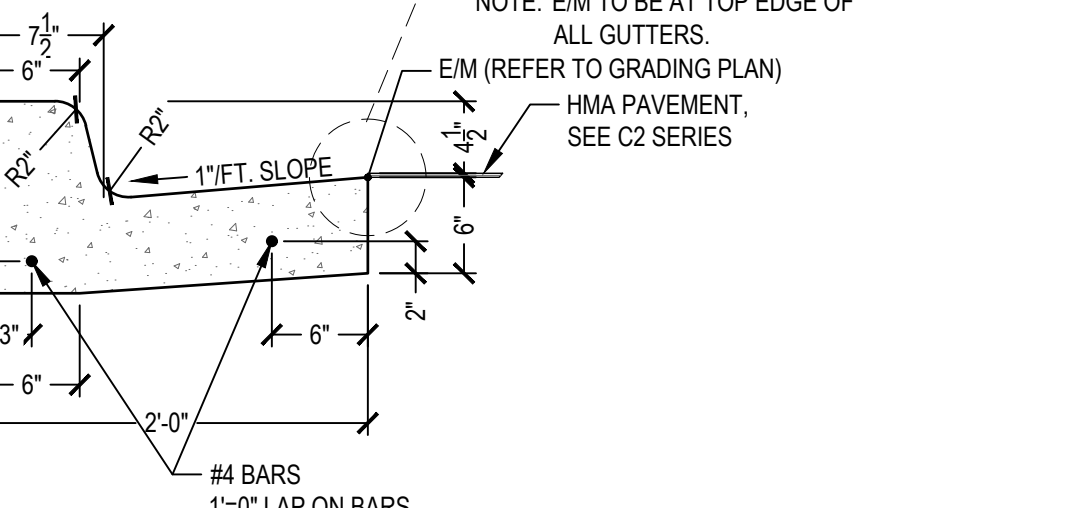
12 TYPICAL PLANTER SCALE: NTS



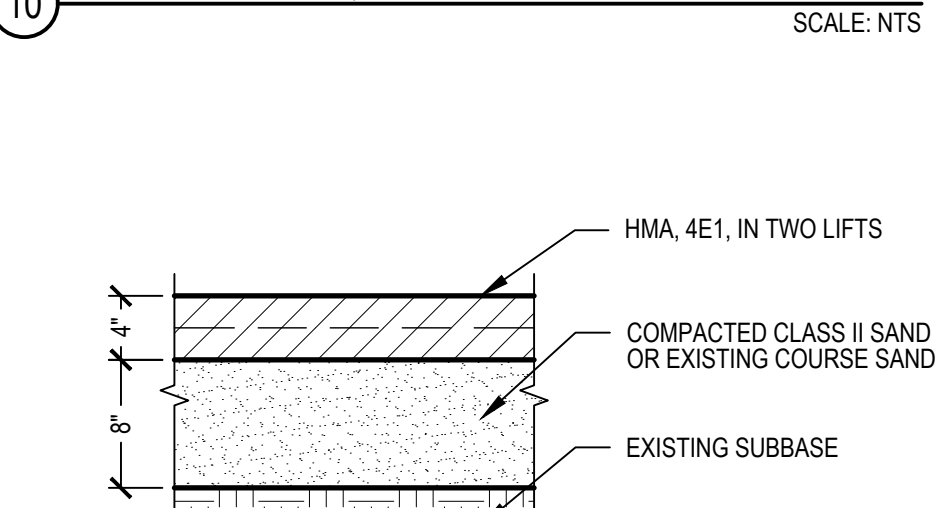
13 PLANTER CURB CUT SCALE: NTS



14 PLANTER CURB SCALE: NTS



15 WIDE PLANTER CURB WITH URBAN BENCH SCALE: NTS



10 WIDE TYPICAL PLANTER CURB SCALE: NTS

NOTES:

- FOR JOINTING OF CONCRETE ROADWAY TRAVEL LANES, REFER TO MDOT STANDARD DETAILS PROVIDED IN SHEET C9.5

STATE ST STREETSCAPE - CITY OF ANN ARBOR						
SITE DETAILS 1						
SCALE: INCH						
DRAWING NO. C9.1						
SHEET NO. OF						
SEE ABOVE						
BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
			100% BID SET	02-18-2022		
APPROVED BY						

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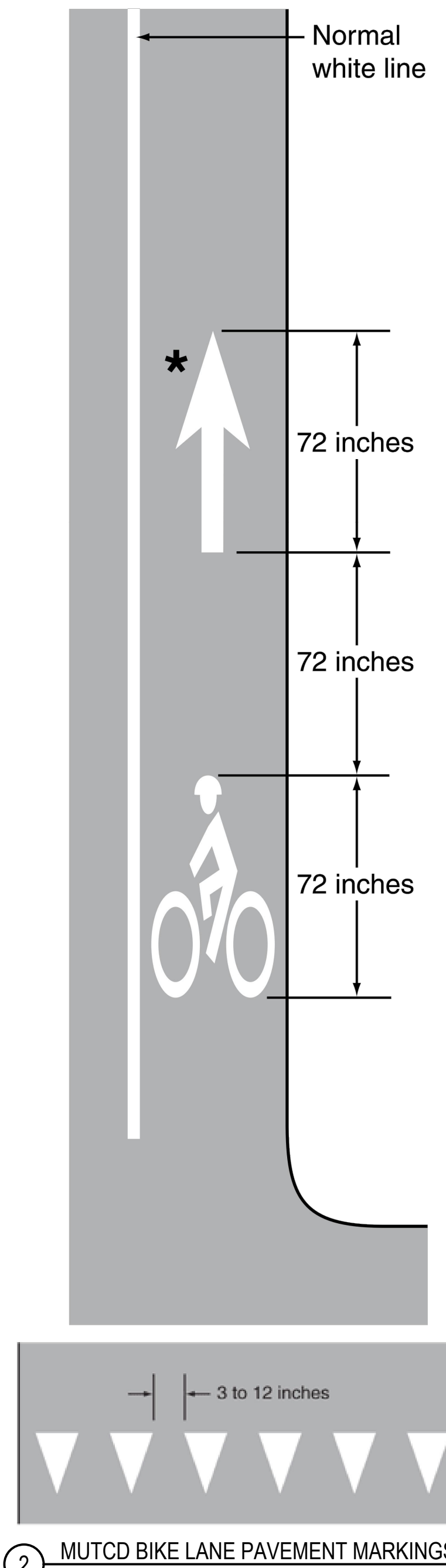
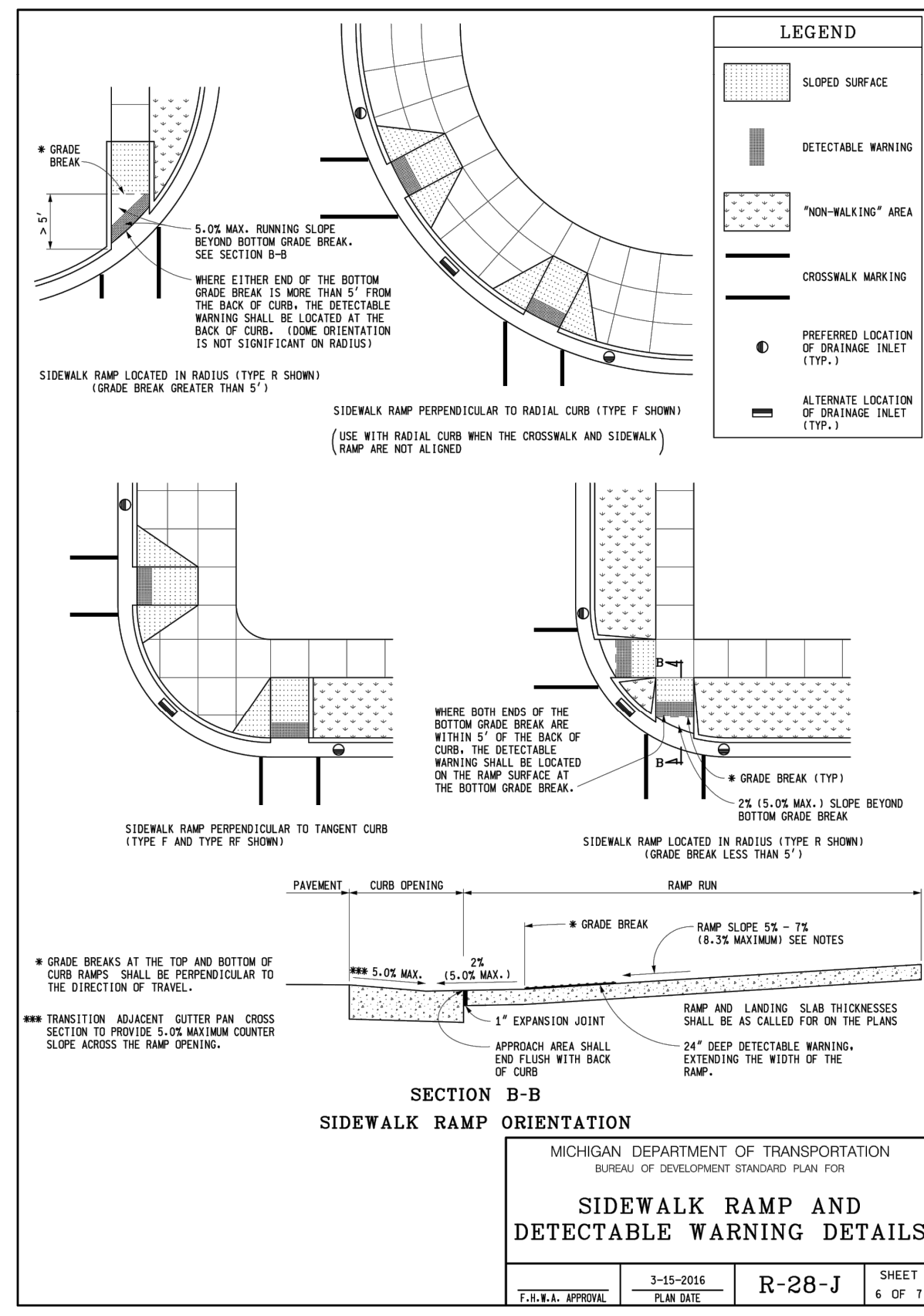
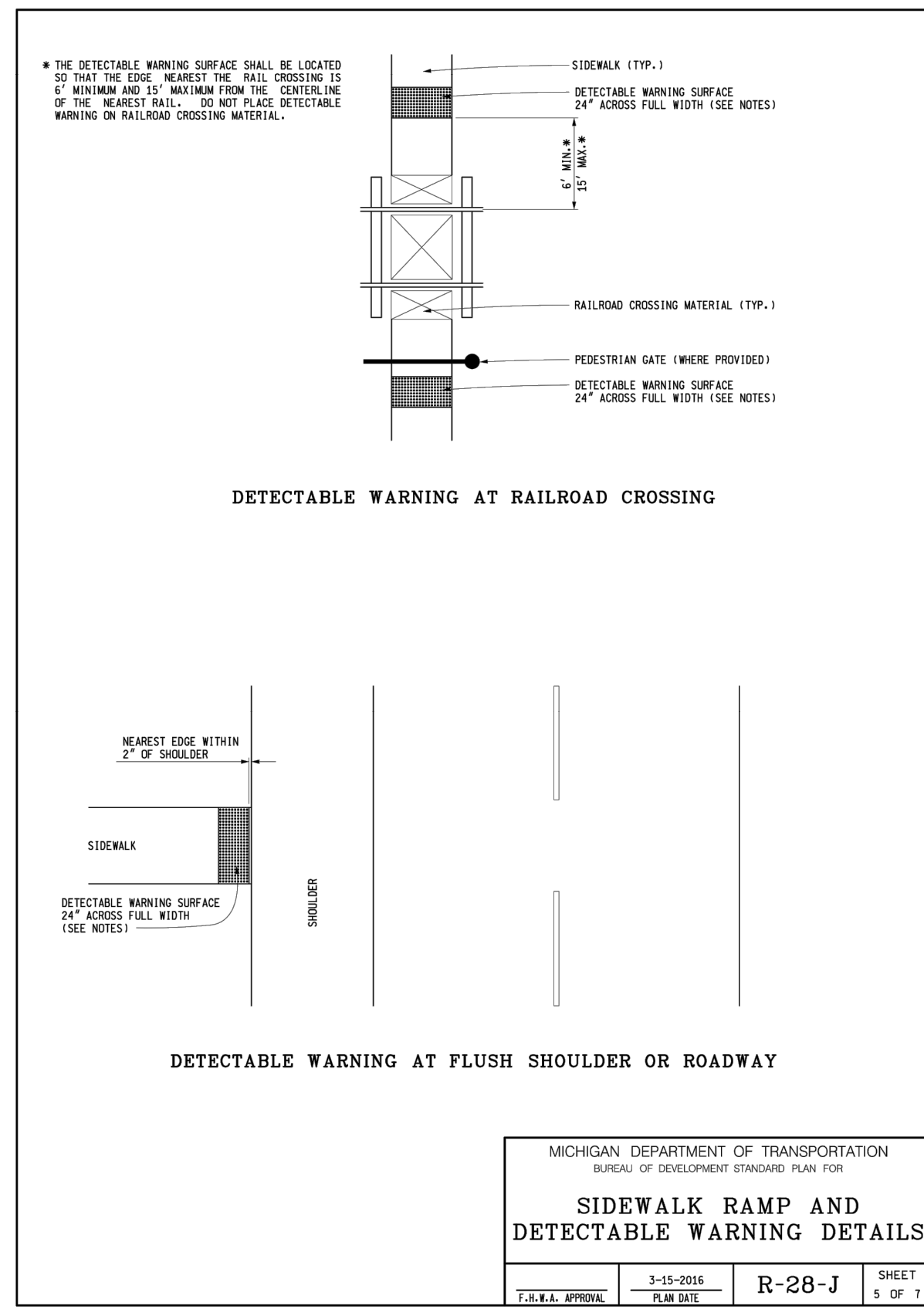
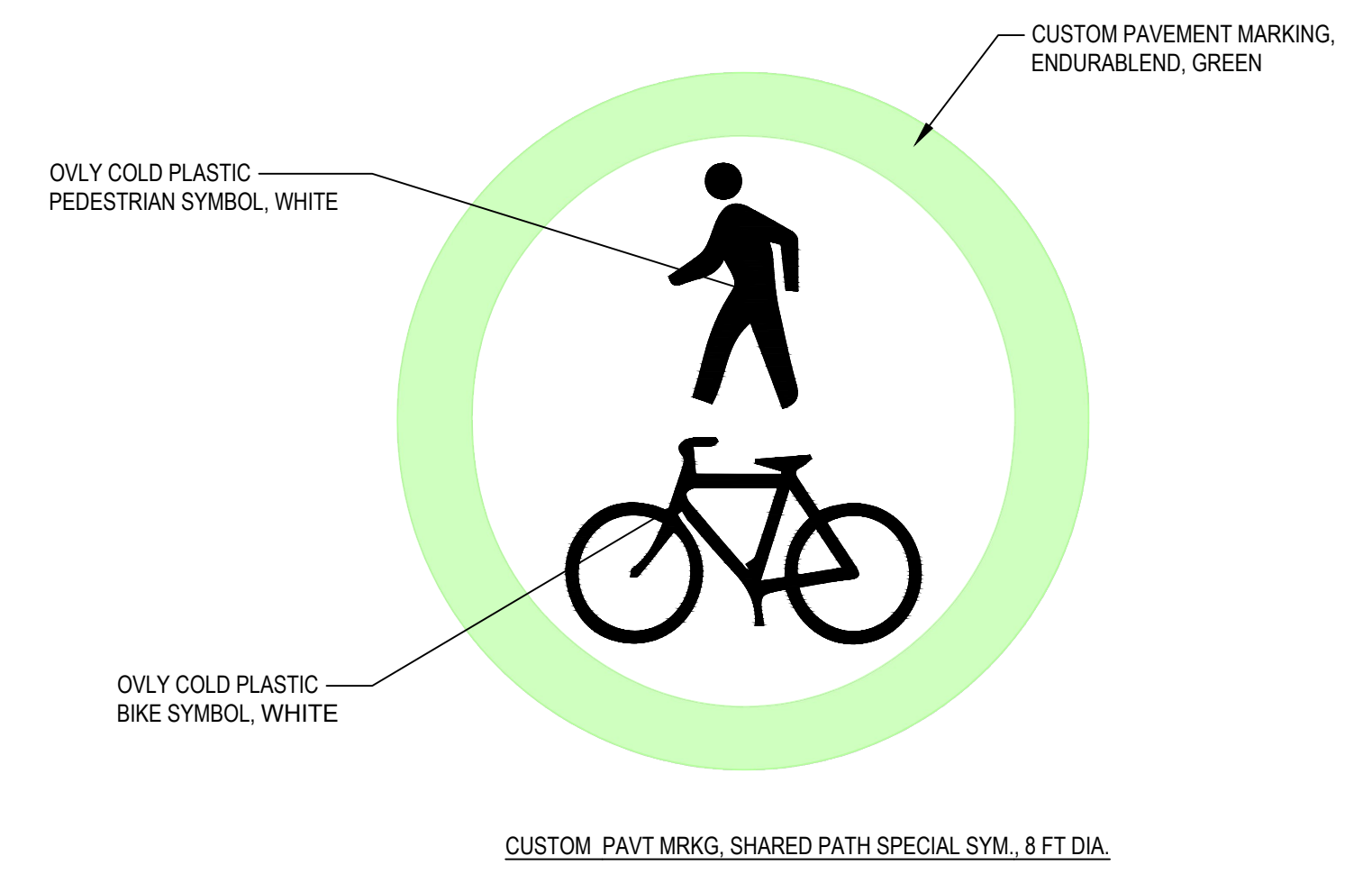
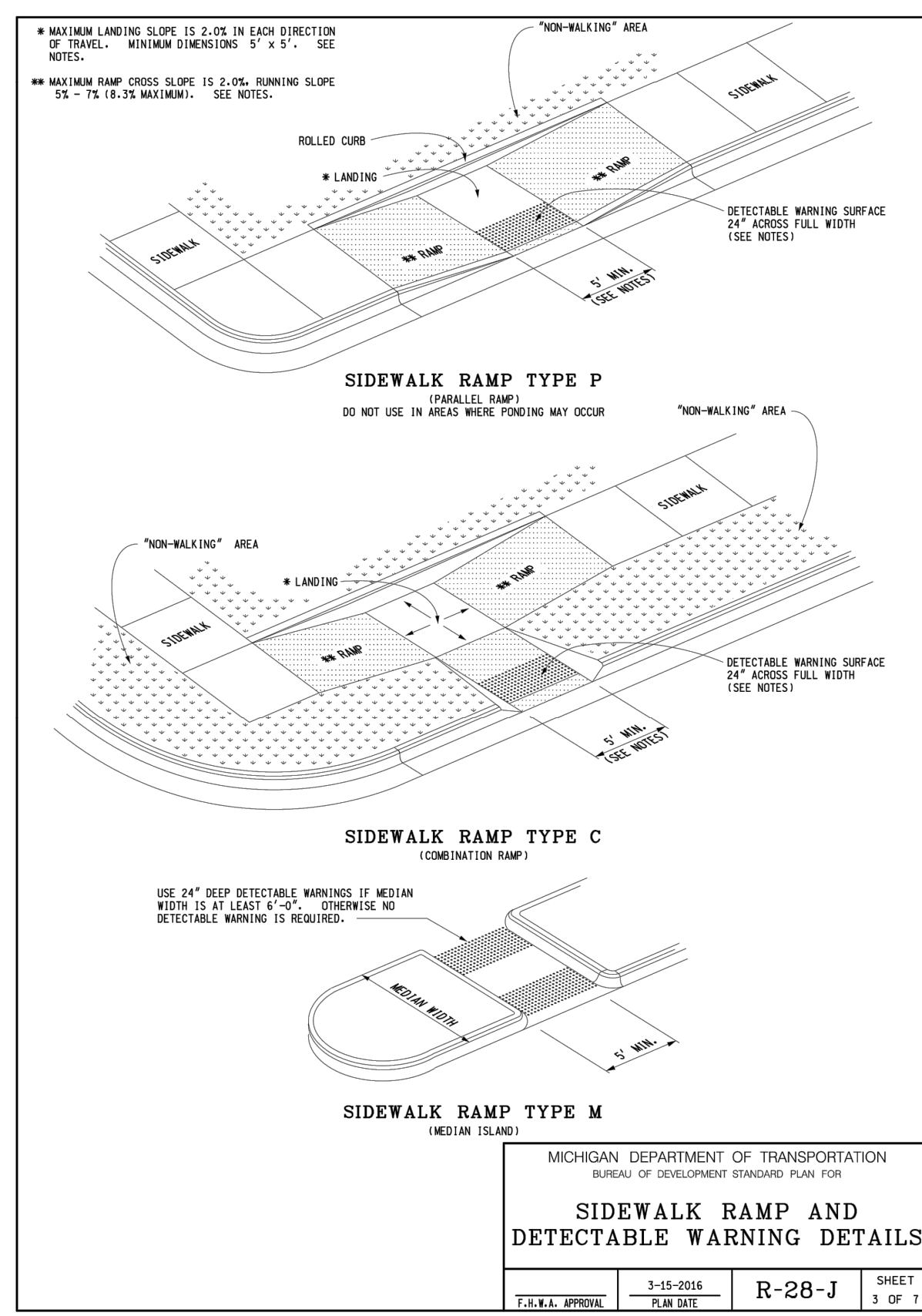
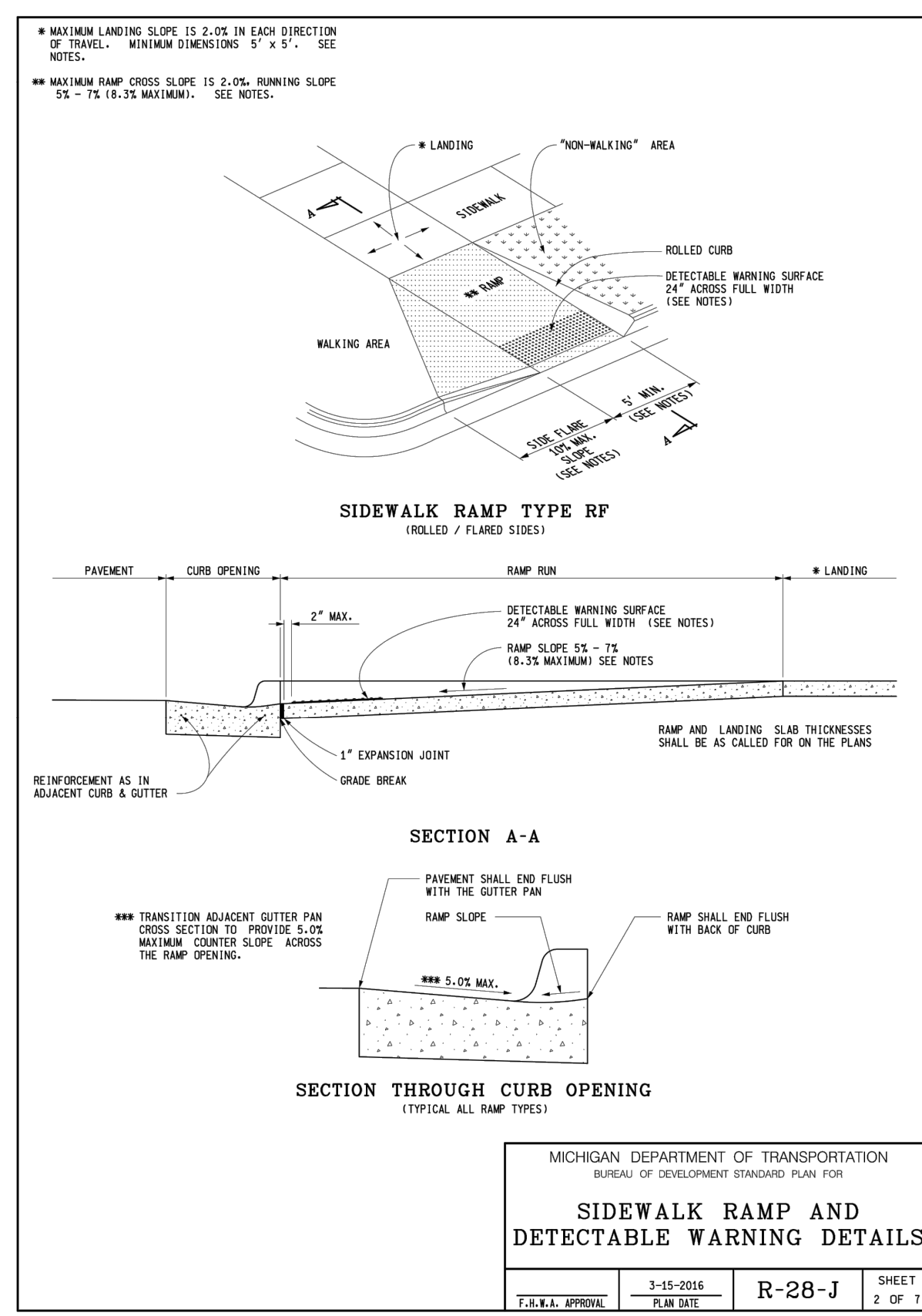
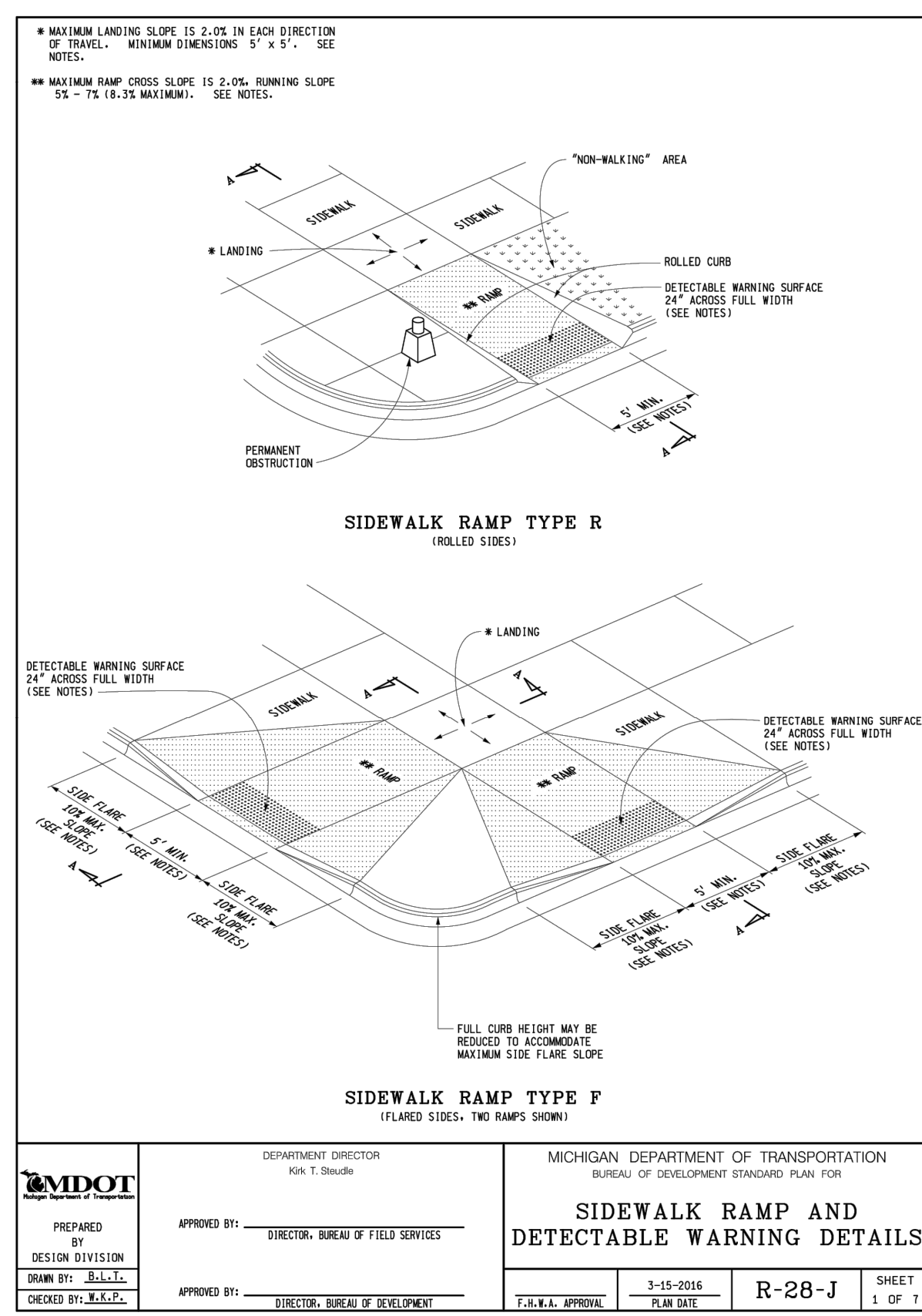


Figure 9C-9. Shared Lane Marking

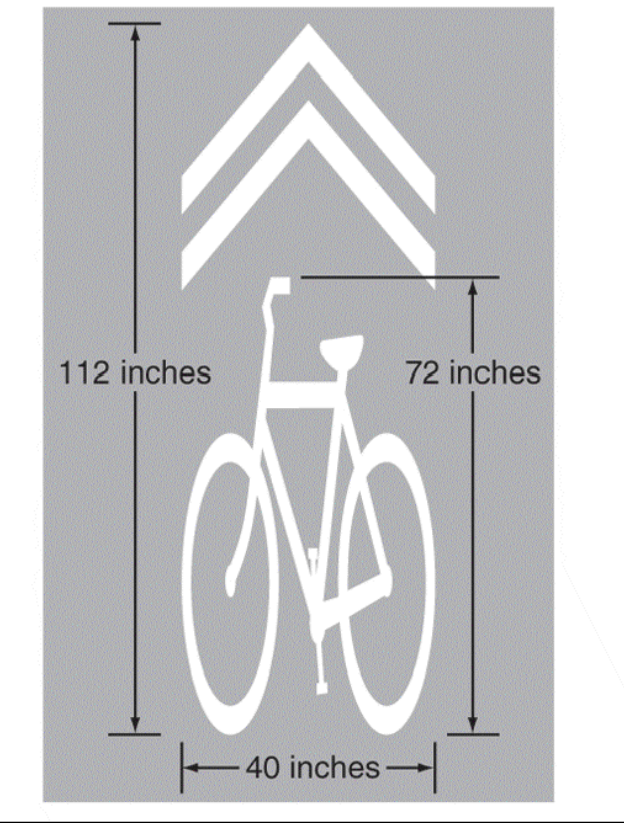
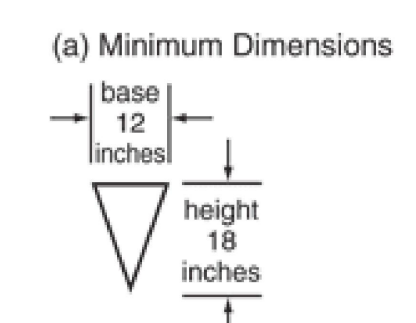
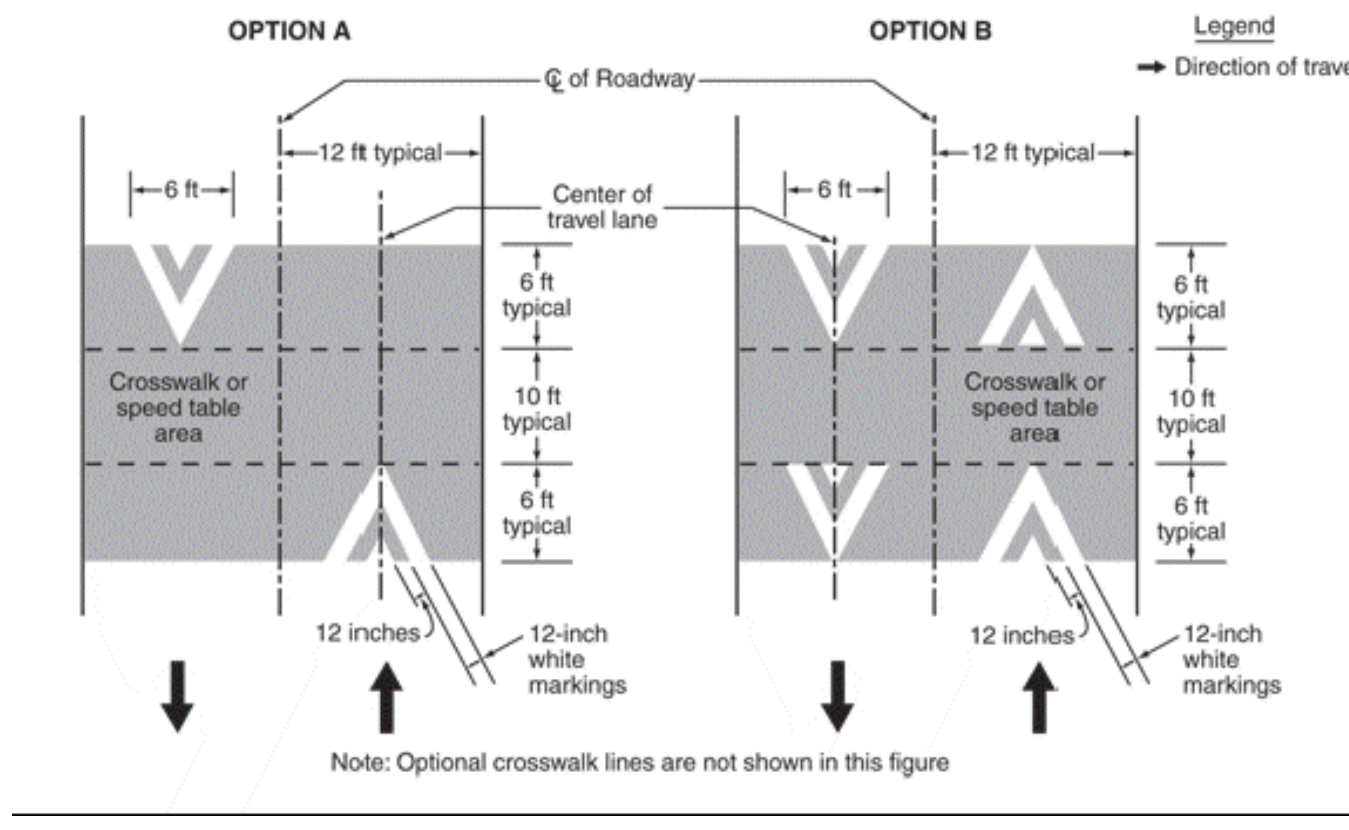


Figure 3B-30. Pavement Markings for Speed Tables or Speed Humps with Crosswalks



Notes:
Triangle height is equal to 1.5 times the base dimension.
Yield lines may be smaller than suggested when installed on much narrower, slow-speed facilities such as shared-use paths.

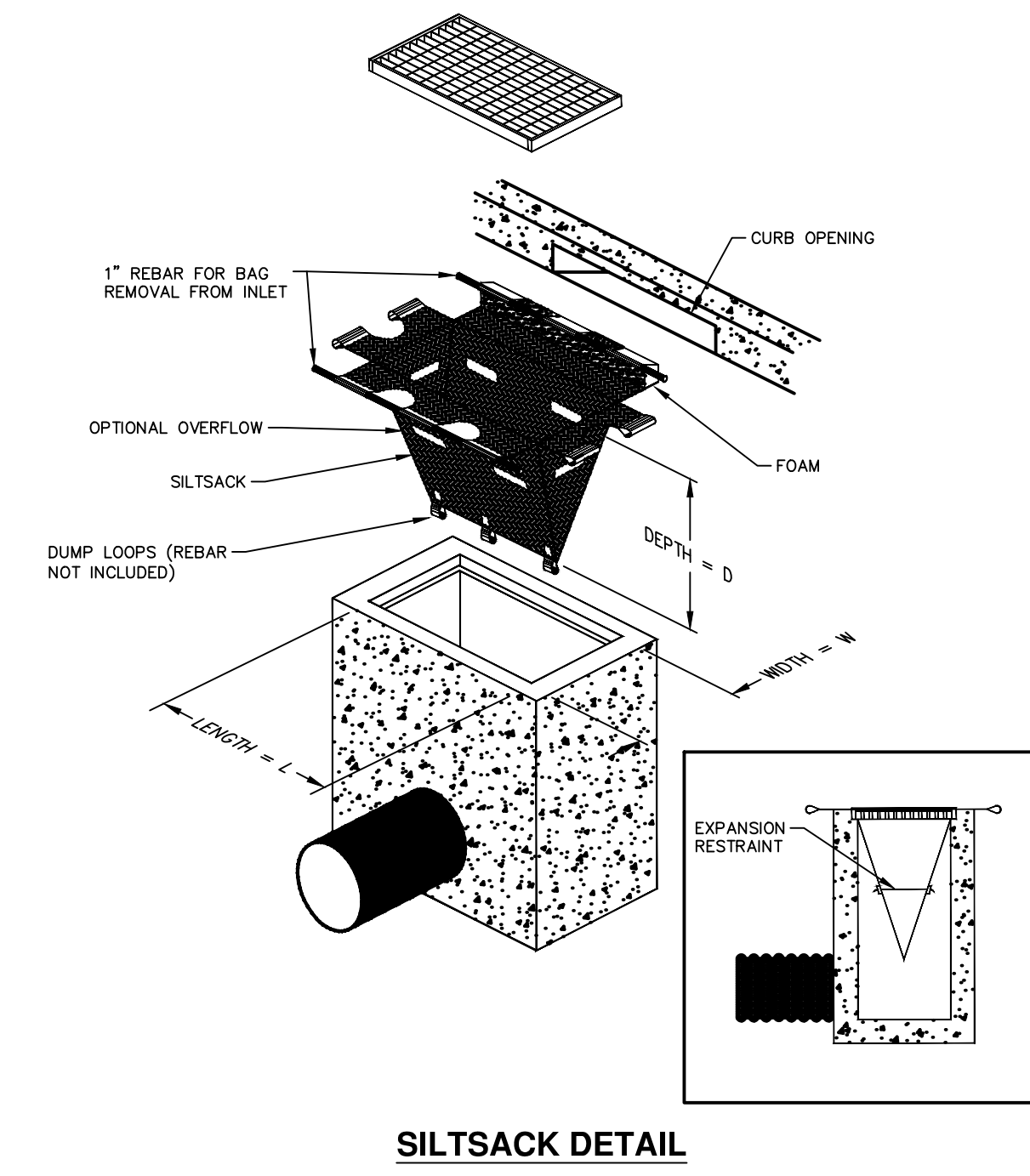
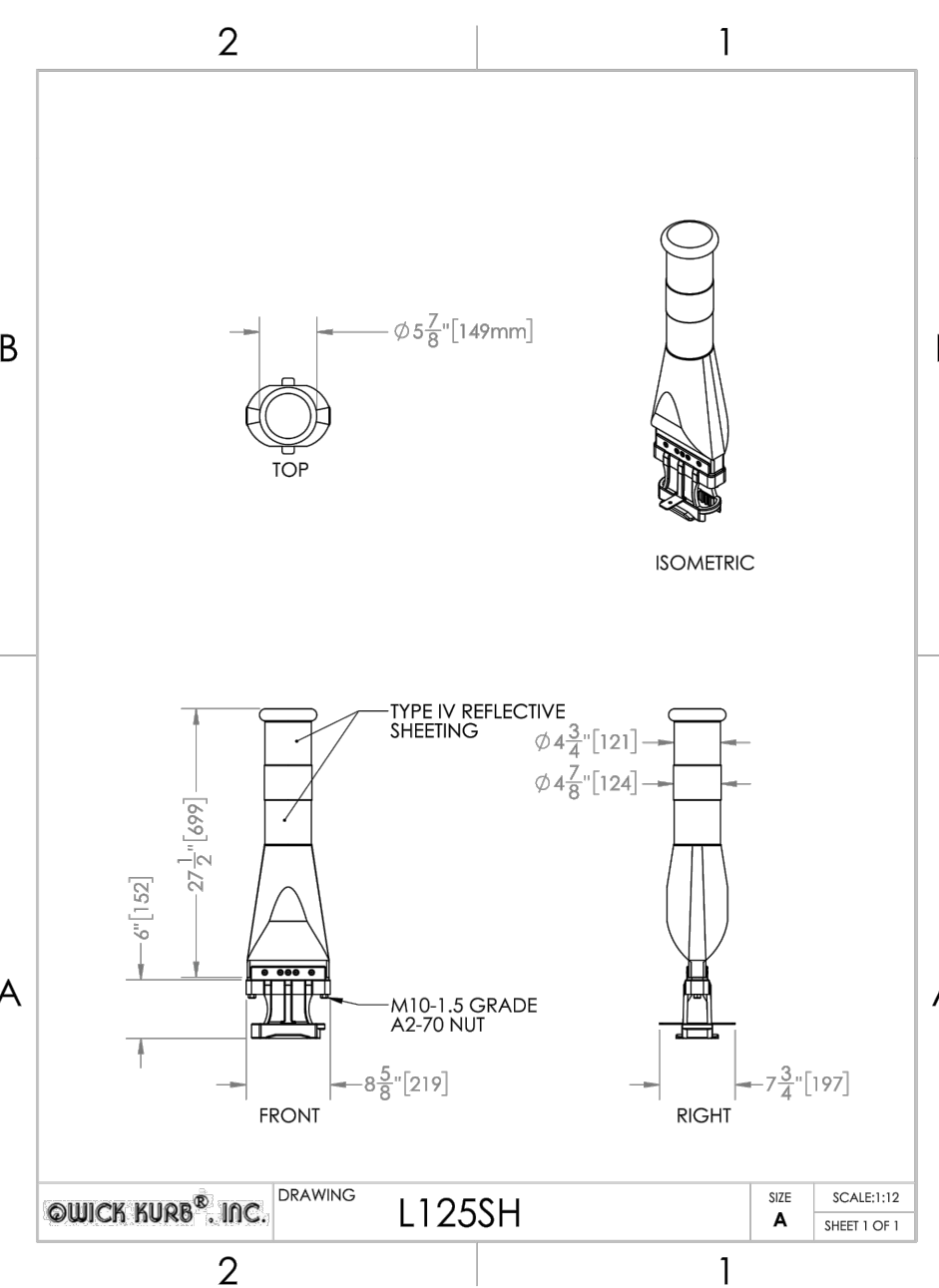
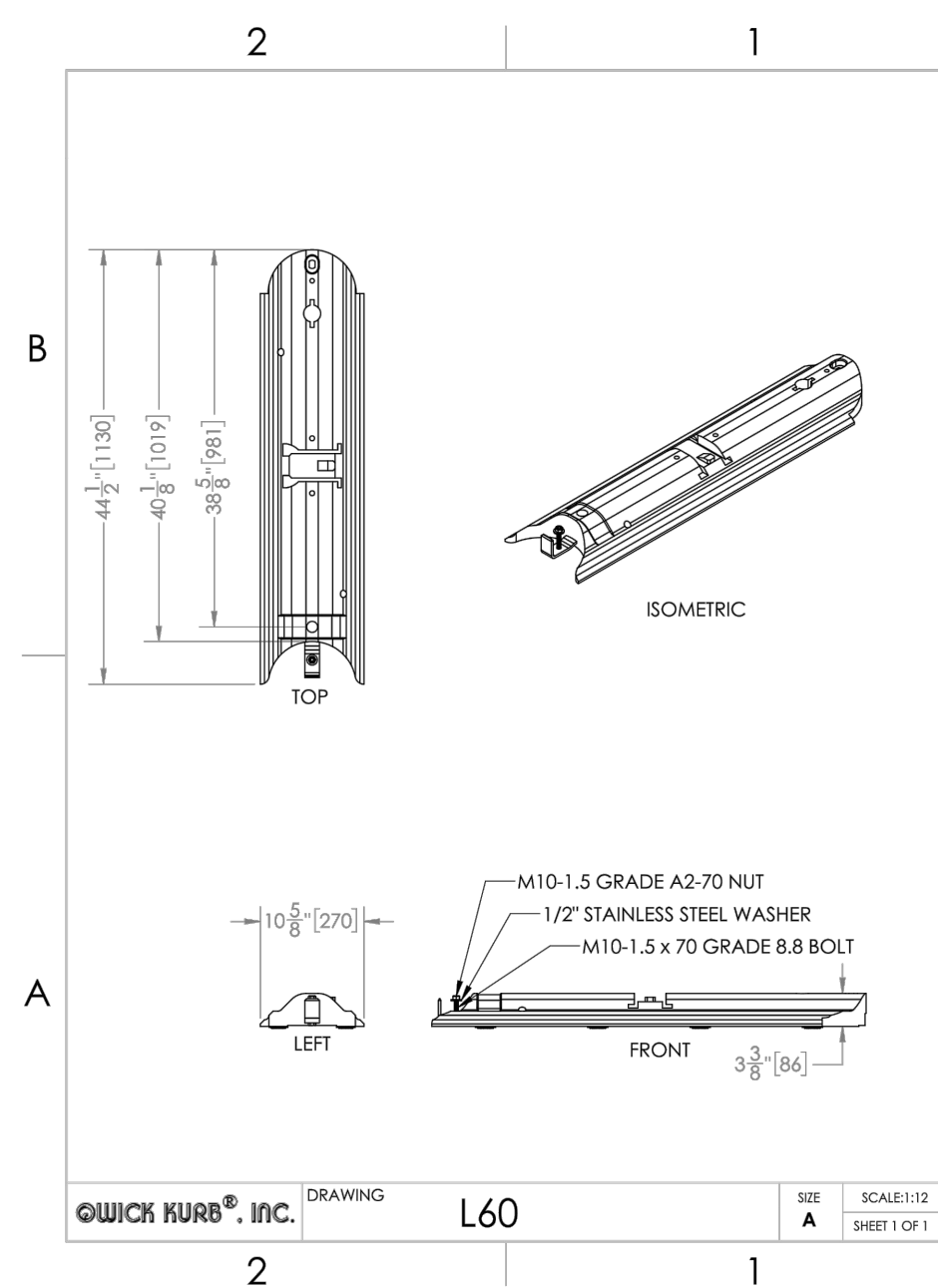
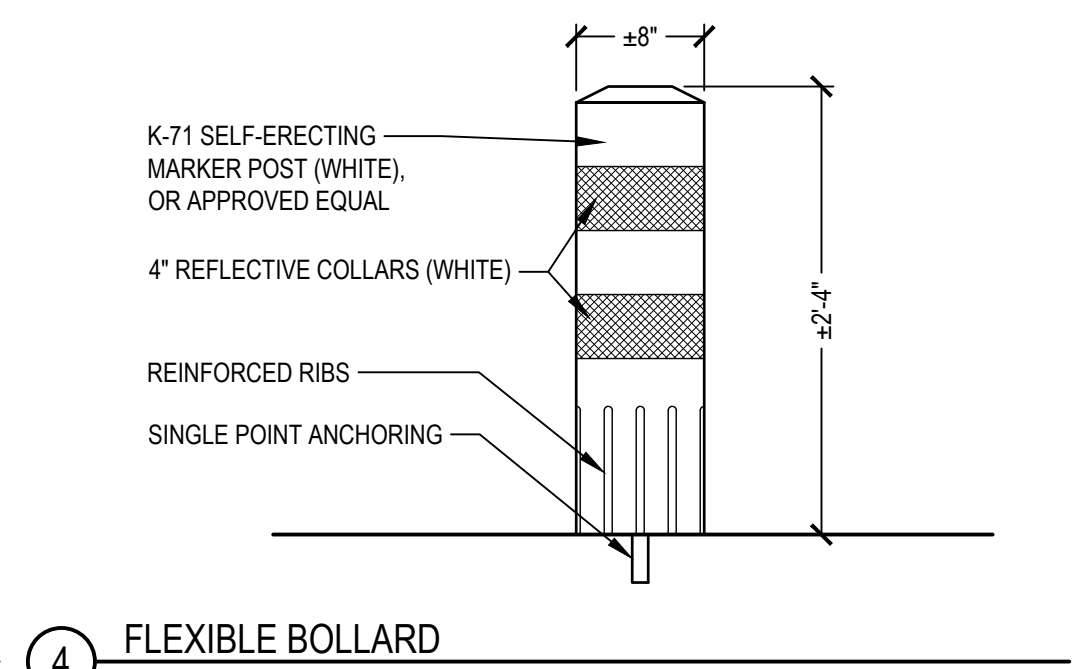
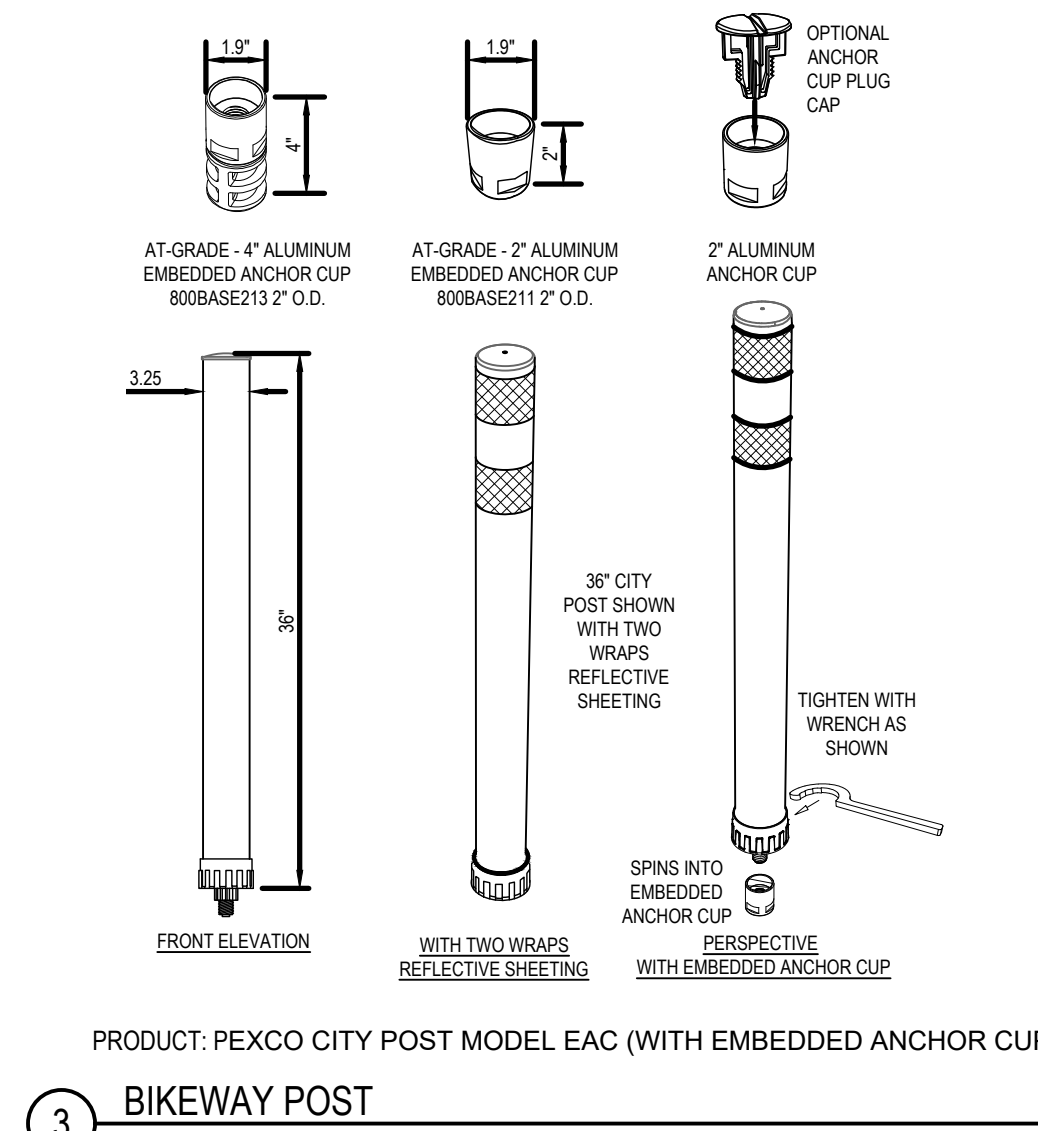
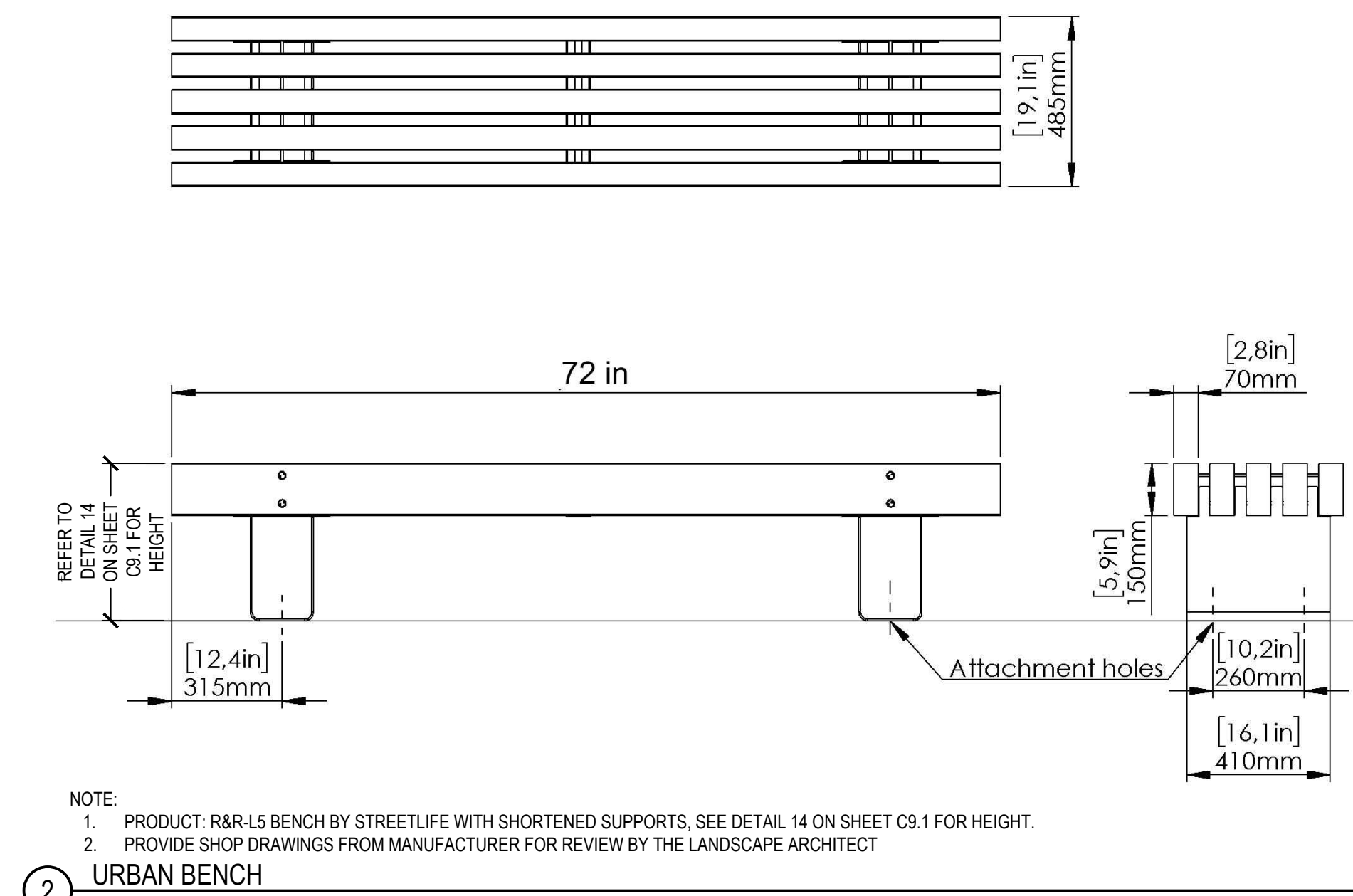
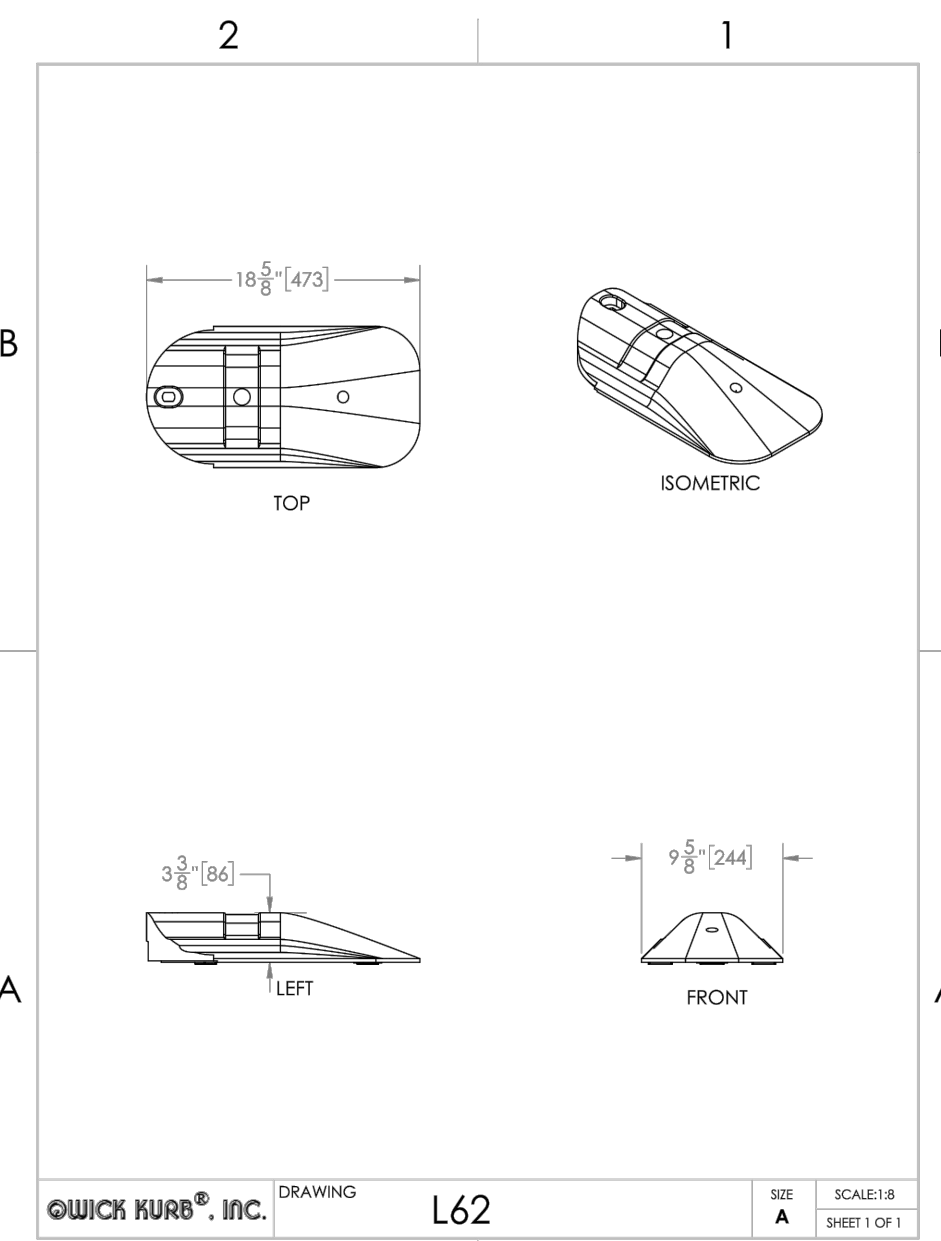
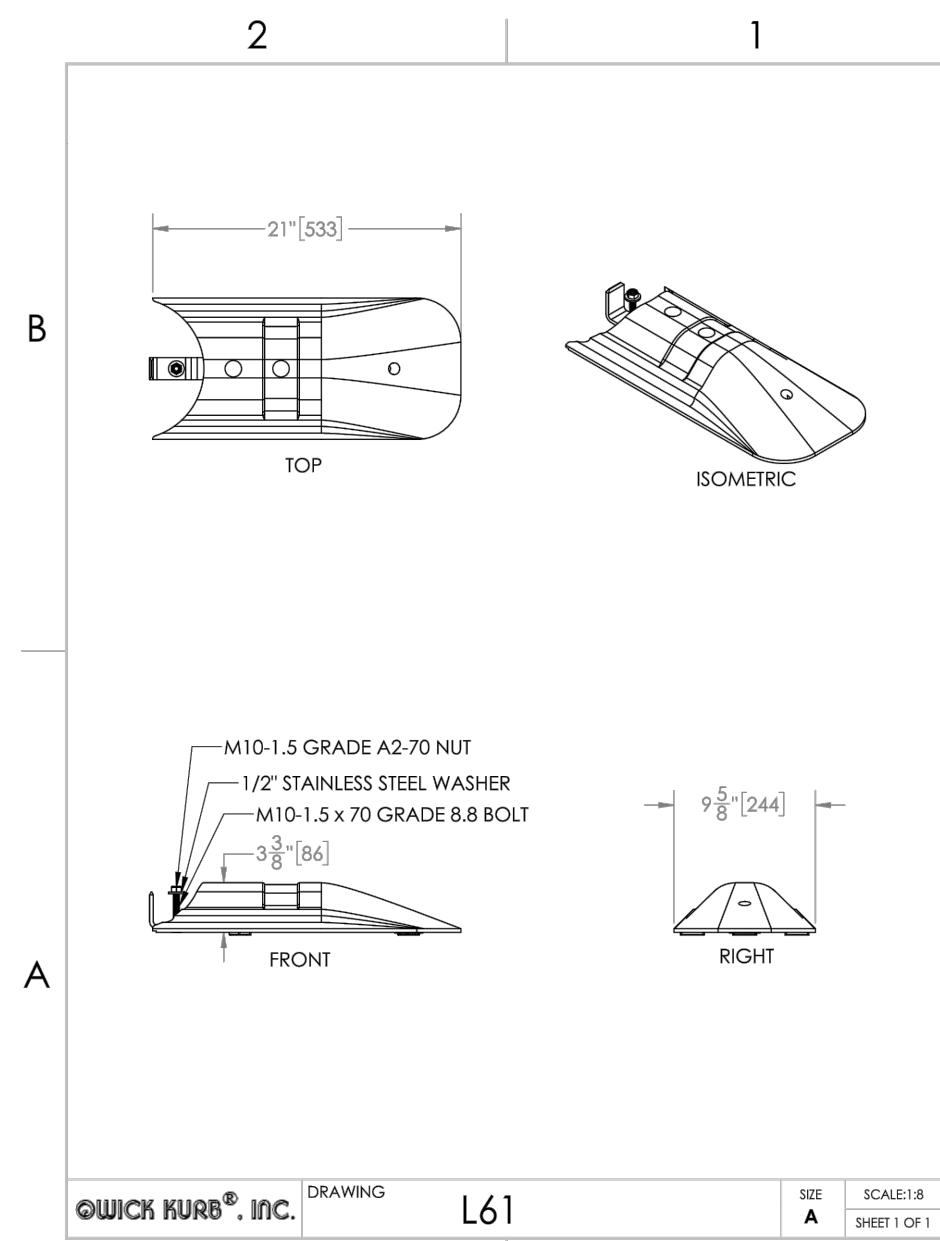
1 MDOT ADA RAMPS (R-28-J)

2 MUTCD BIKE LANE PAVEMENT MARKINGS

SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
				100% BID SET	02-18-2022		

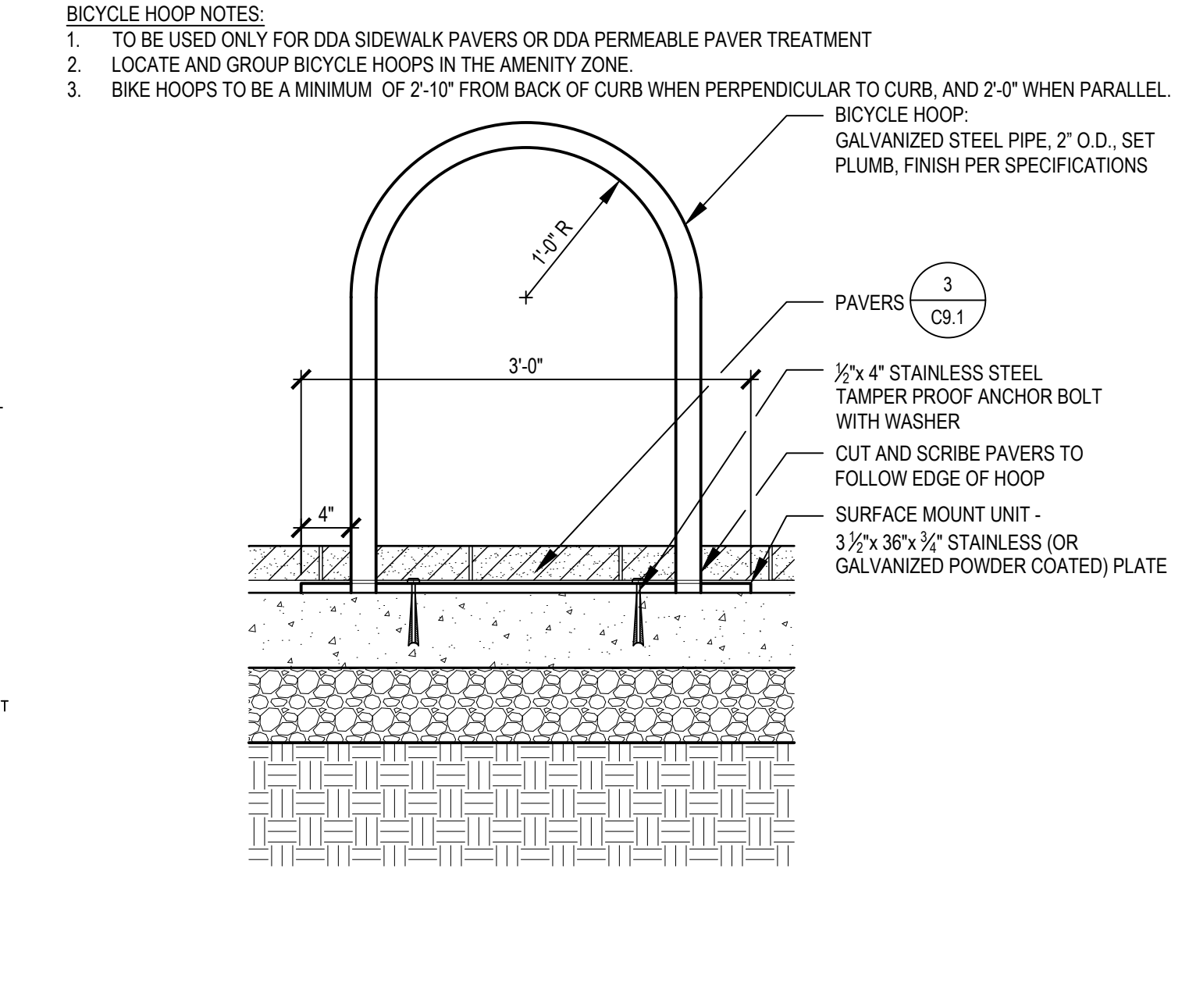
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STATE ST STREETSCAPE - CITY OF ANN ARBOR	
SITE DETAILS 2	
SCALE	INCH
DRAWING NO. C9.2	
SHEET NO. OF	



PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	300 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	120 LBS
MULLEN BURST	ASTM D-3786	800 PSI
TRAPEZOID TEAR	ASTM D-4533	120 LBS
UV RESISTANCE	ASTM D-4355	80%
APPARENT OPENING SIZE	ASTM D-4751	40 US SIEVE
FLOW RATE	ASTM D-4491	40 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	0.55 SEC -1

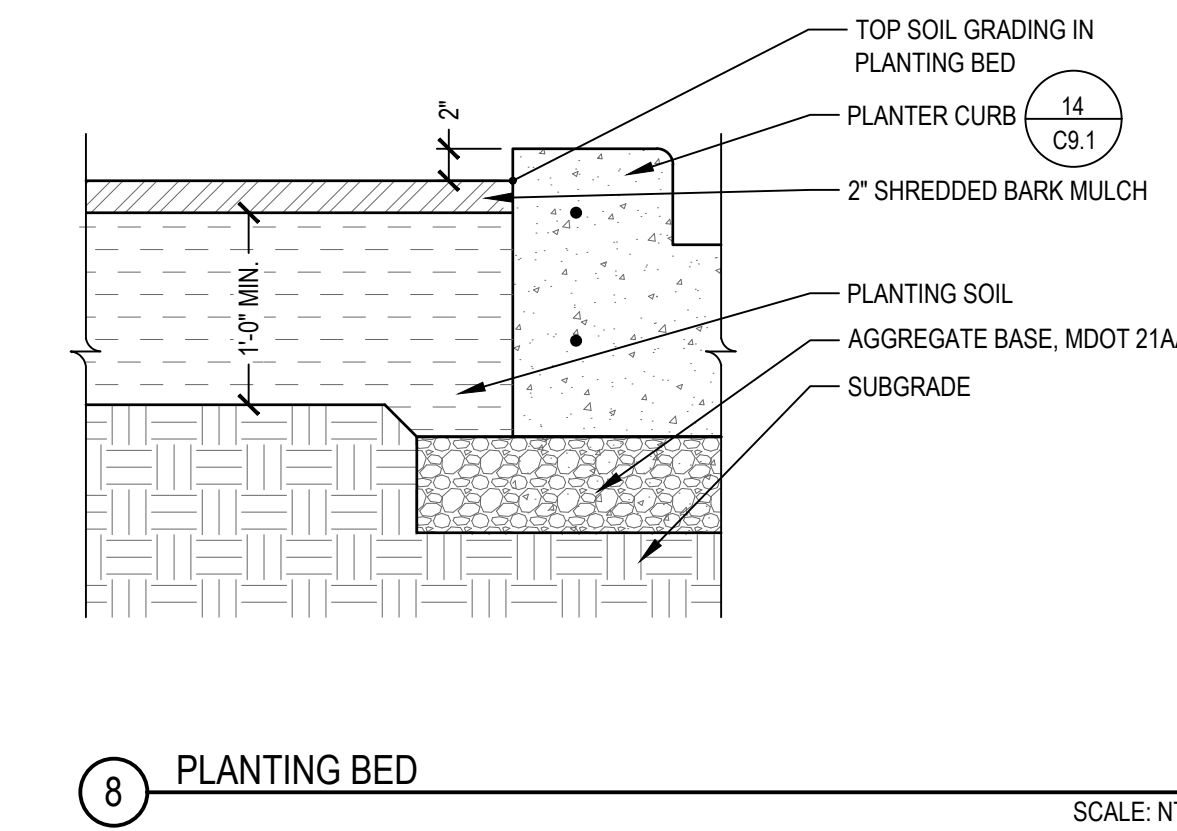
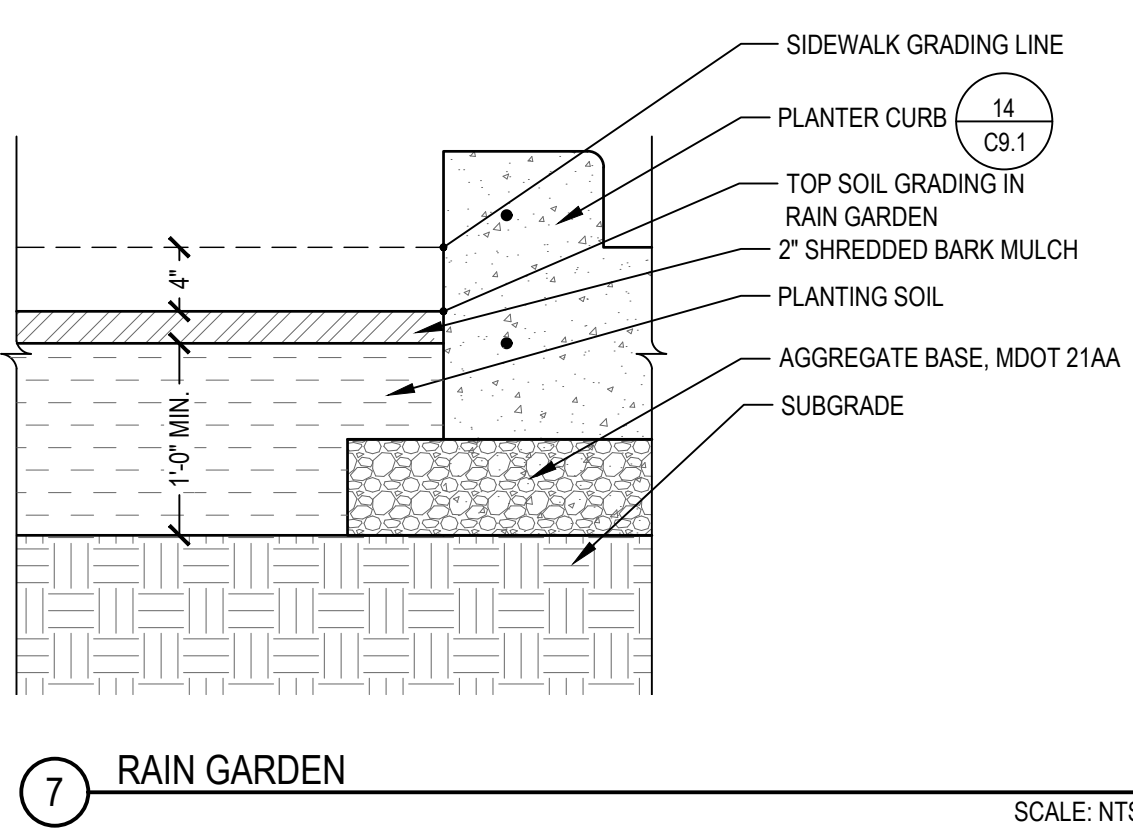
PROPERTIES	REQUIRED VALUE	TEST METHOD
GRAB TENSILE STRENGTH	ASTM D-4632	265 LBS
GRAB TENSILE ELONGATION	ASTM D-4632	20%
PUNCTURE	ASTM D-4833	135 LBS
MULLEN BURST	ASTM D-3786	420 PSI
TRAPEZOID TEAR	ASTM D-4533	45 LBS
UV RESISTANCE	ASTM D-4355	90%
APPARENT OPENING SIZE	ASTM D-4751	20 US SIEVE
FLOW RATE	ASTM D-4491	200 GAL/MIN/SQ FT
PERMITTIVITY	ASTM D-4491	1.5 SEC-1



1 BIKEYWAY CURB SCALE: NTS

5 INLET PROTECTION SCALE: NTS

6 BIKE HOOP SCALE: NTS

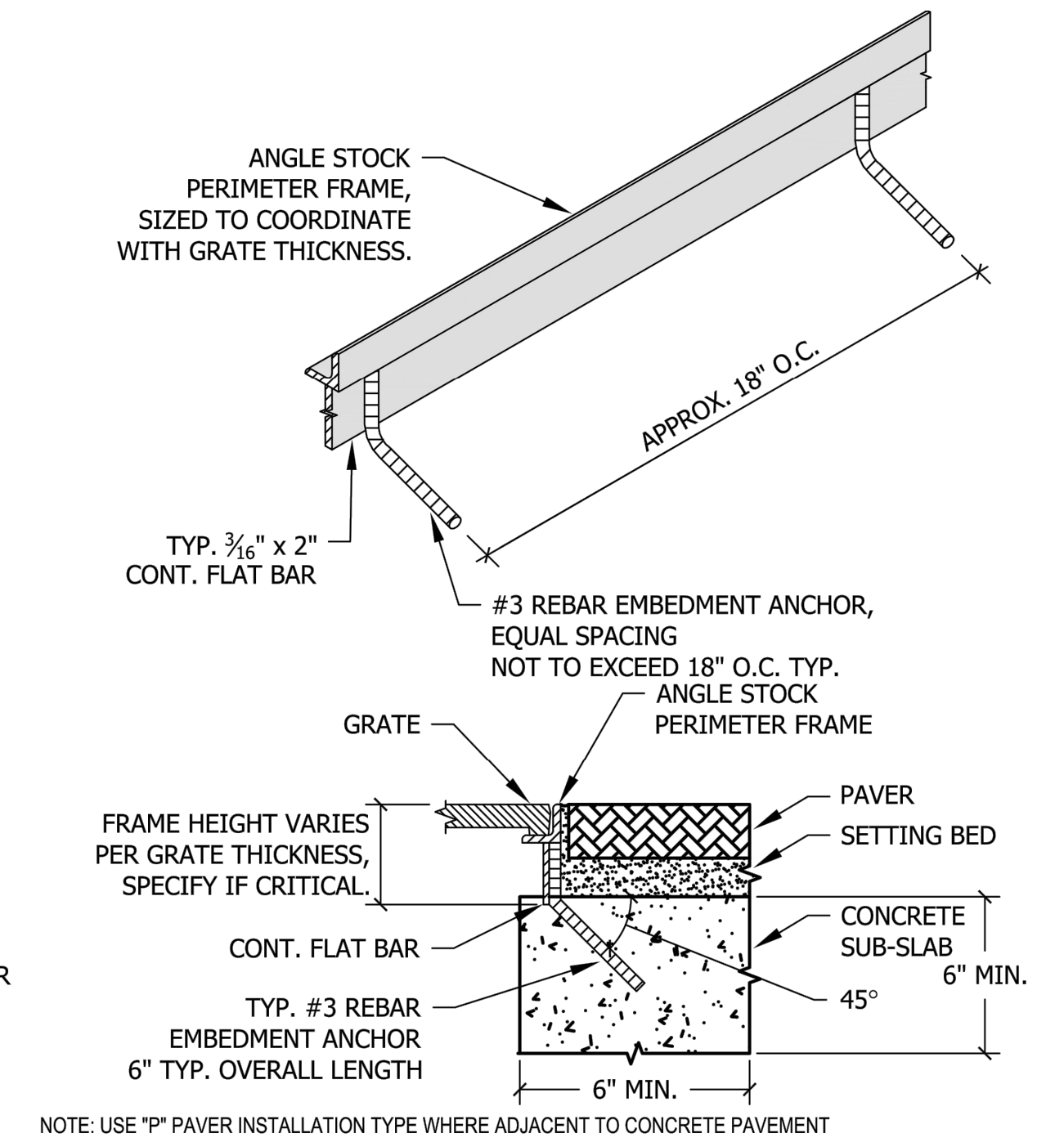
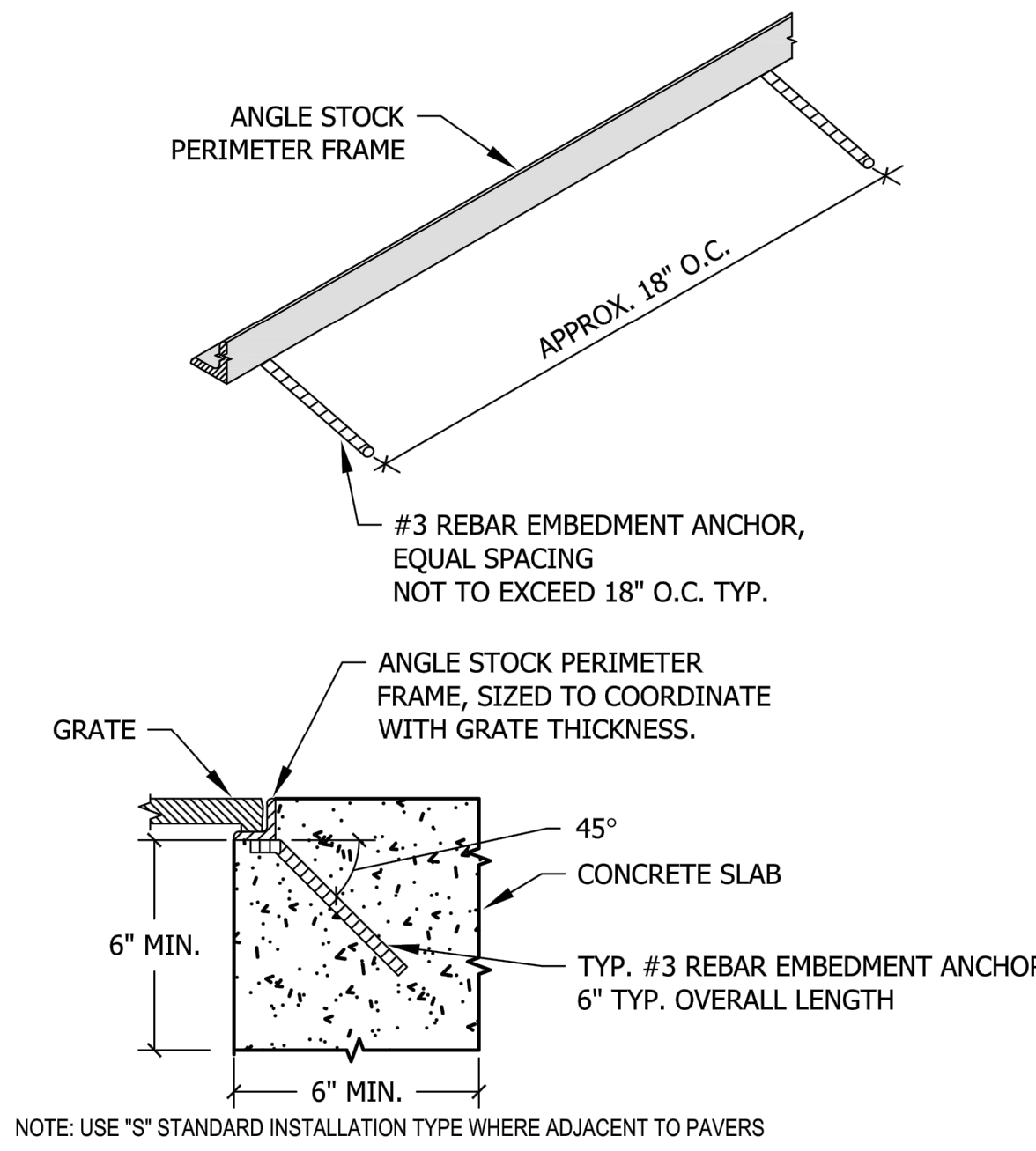
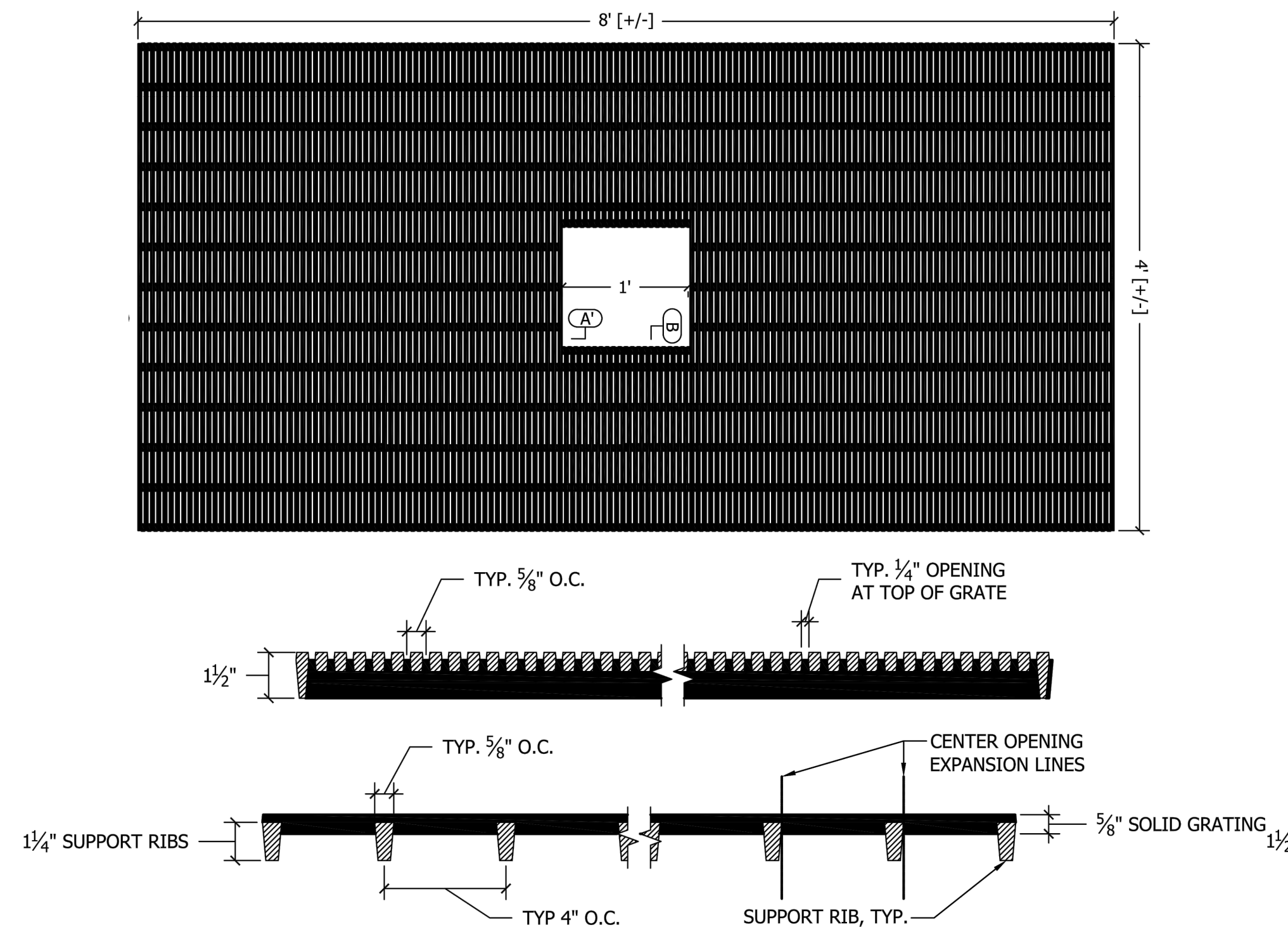
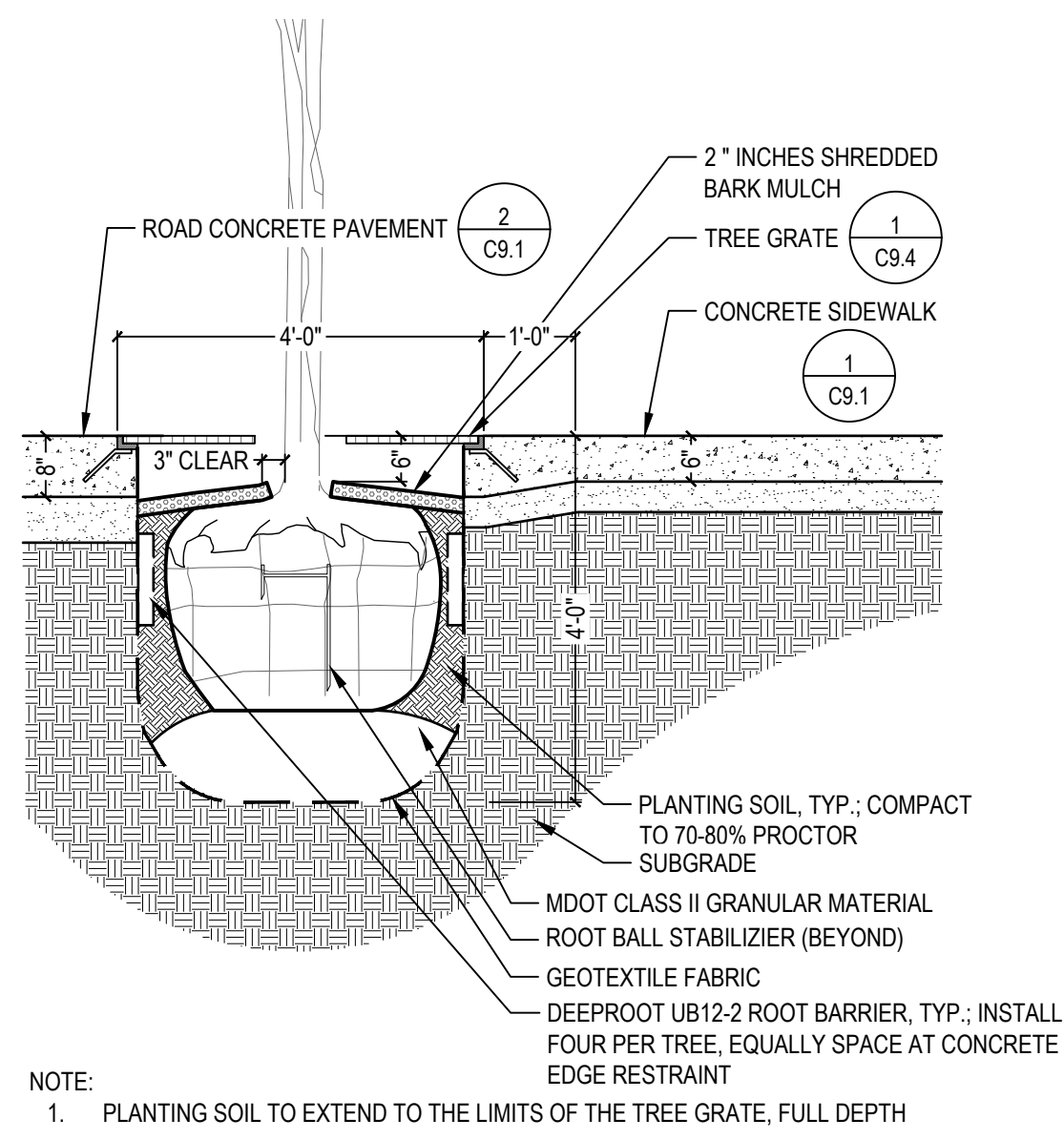


7 RAIN GARDEN SCALE: NTS

8 PLANTING BED SCALE: NTS

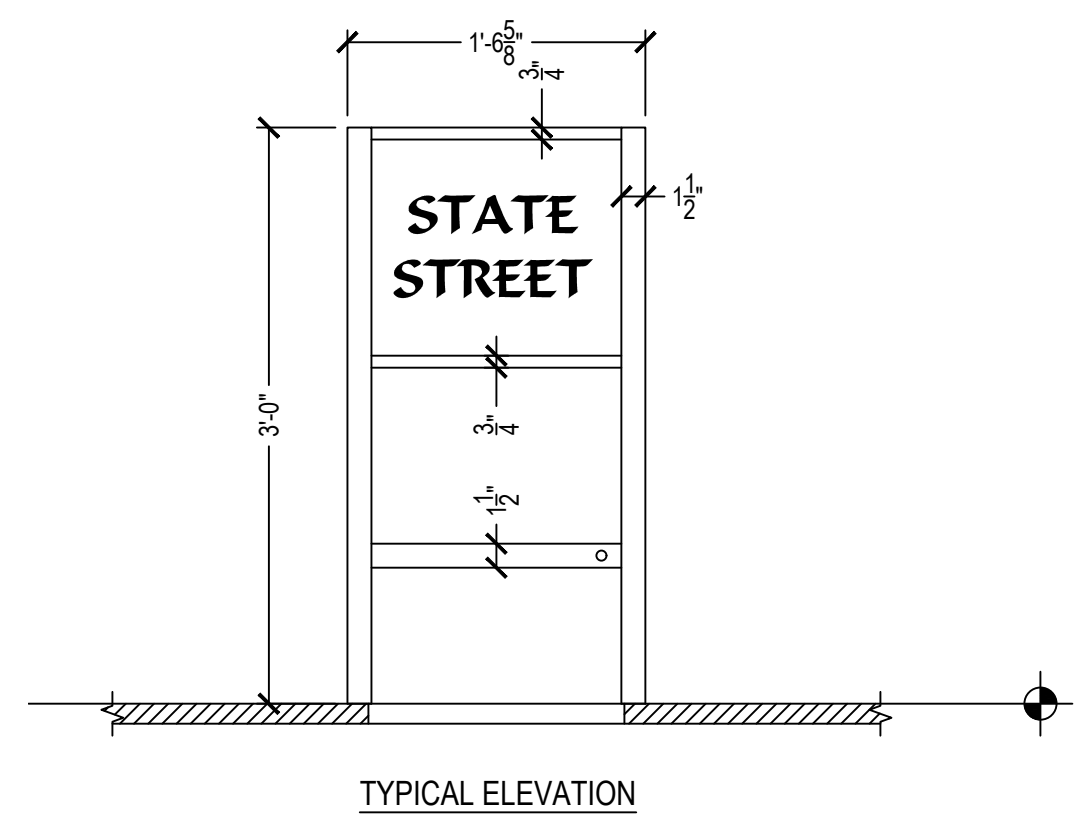
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SITE DETAILS 3						
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			100% BID SET		02-18-2022	
APPROVED BY _____						SCALE: INCH
						DRAWING NO. C9.3
						SHEET NO. ____ OF ____

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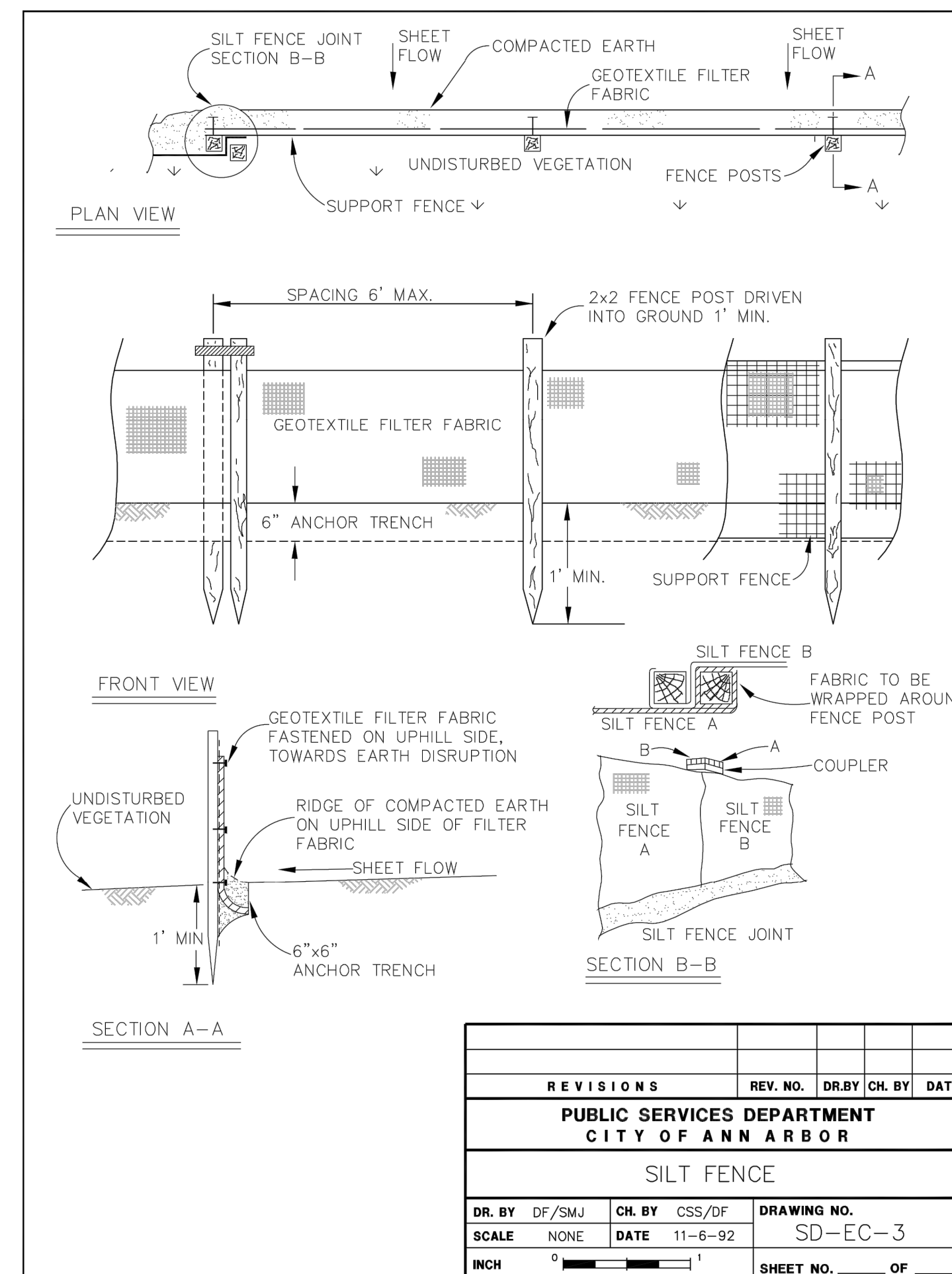
1 TREE GRATE

SCALE: NTS



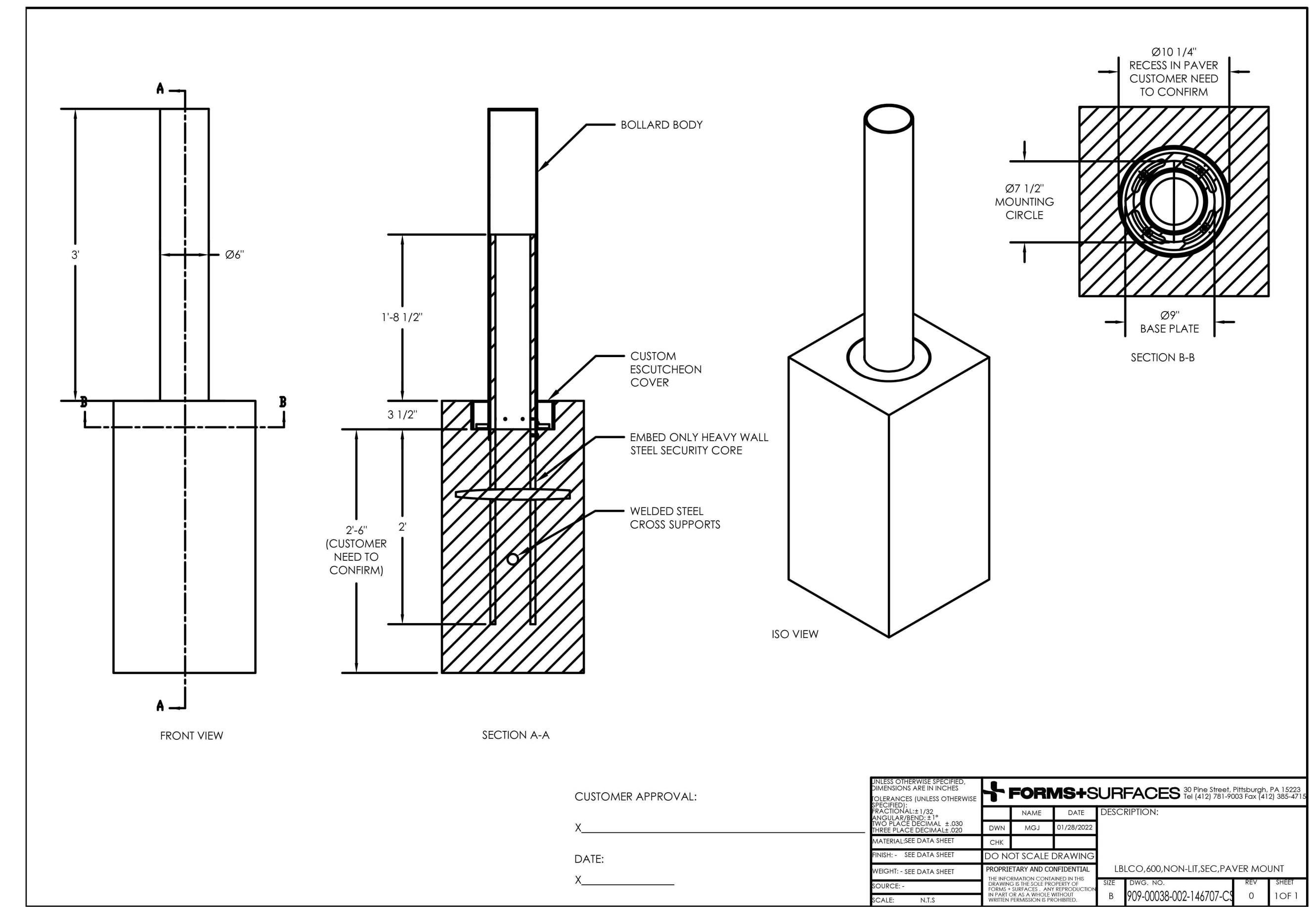
2 TREE GUARD

SCALE: NTS



3 SILT FENCE

SCALE: NTS



4 BOLLARD

SCALE: NTS

STATE ST STREETSCAPE - CITY OF ANN ARBOR						
SITE DETAILS 4						
SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY CH. BY
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SCALE: _____ INCH						
DRAWING NO. C9.4						
SHEET NO. _____ OF _____						

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SYMBOL (E2) AND (E4)

SYMBOL (E3)

SYMBOL (H)

SYMBOL (I)

SYMBOL (J)

SYMBOL (K)

SYMBOL (L)

SYMBOL (L2)

SYMBOL (W)

SYMBOL (U)

SYMBOL (V)

SYMBOL (M)

SYMBOL (N)

SYMBOL (O)

SYMBOL (P)

SYMBOL (Q)

SYMBOL (R)

SYMBOL (S)

SYMBOL (T)

SYMBOL (V)

SYMBOL (W)

SYMBOL (X)

SYMBOL (Y)

SYMBOL (Z)

SYMBOL (A)

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SYMBOL (C)

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SYMBOL (E)

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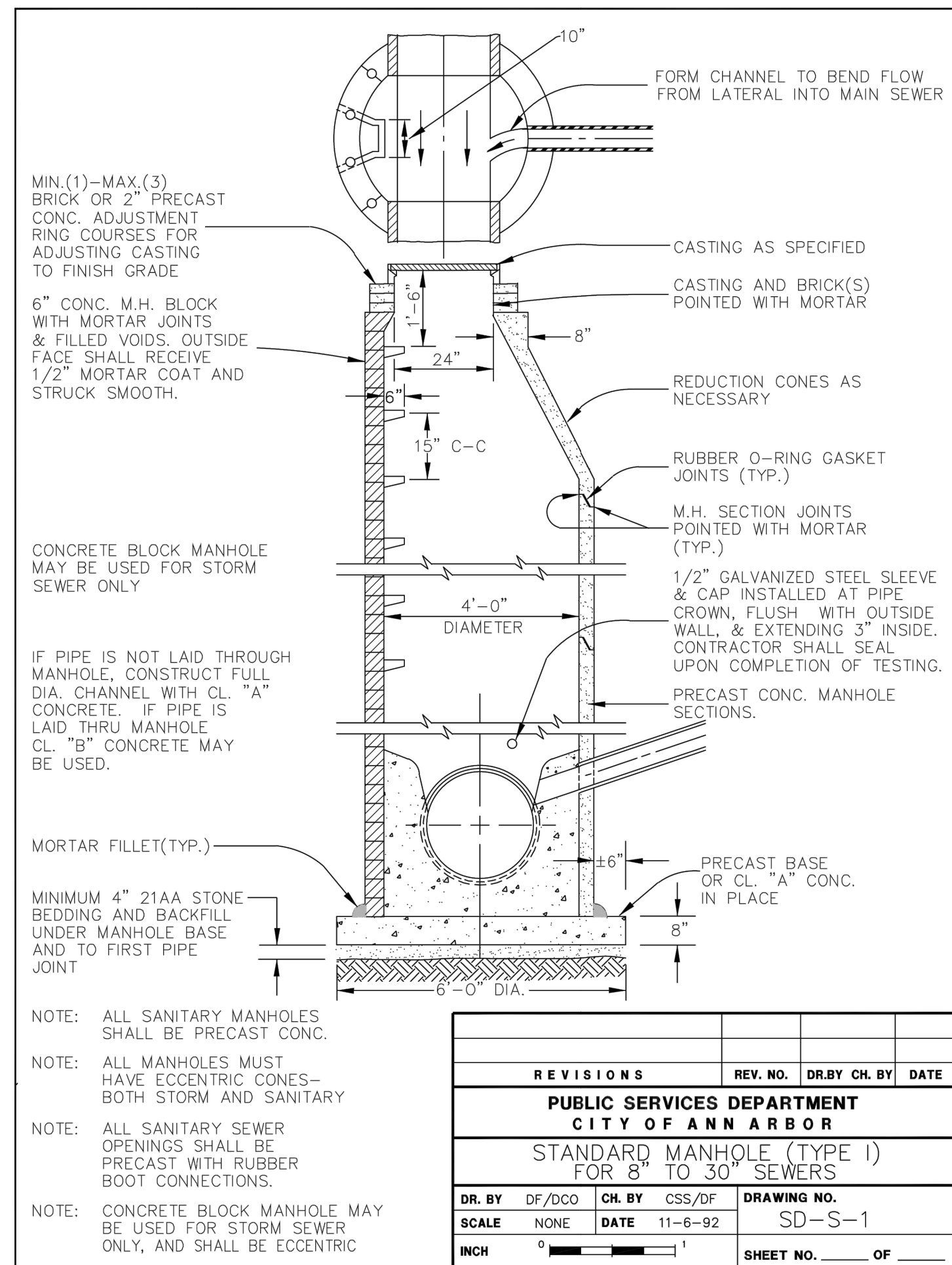
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SYMBOL (F)

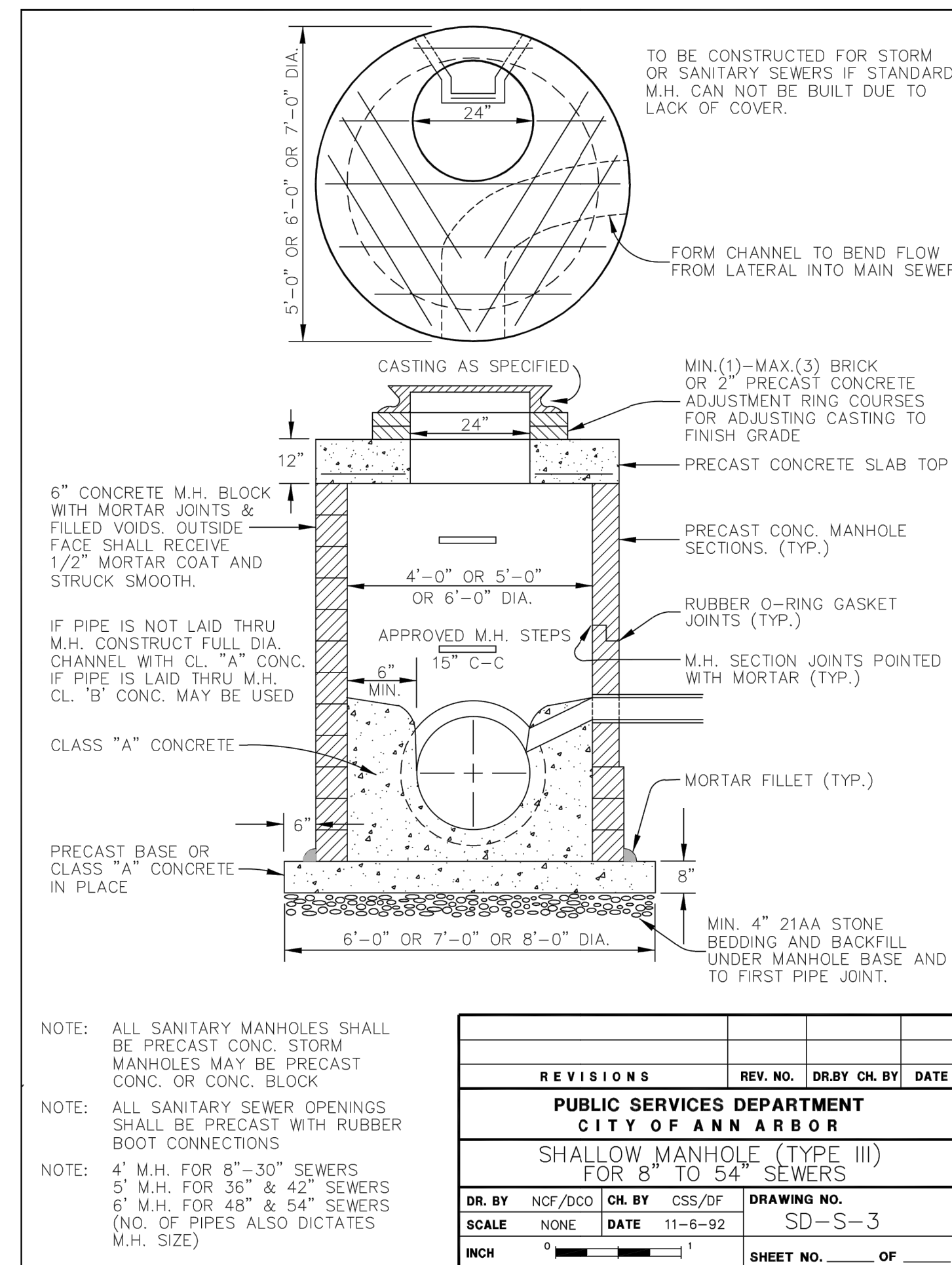
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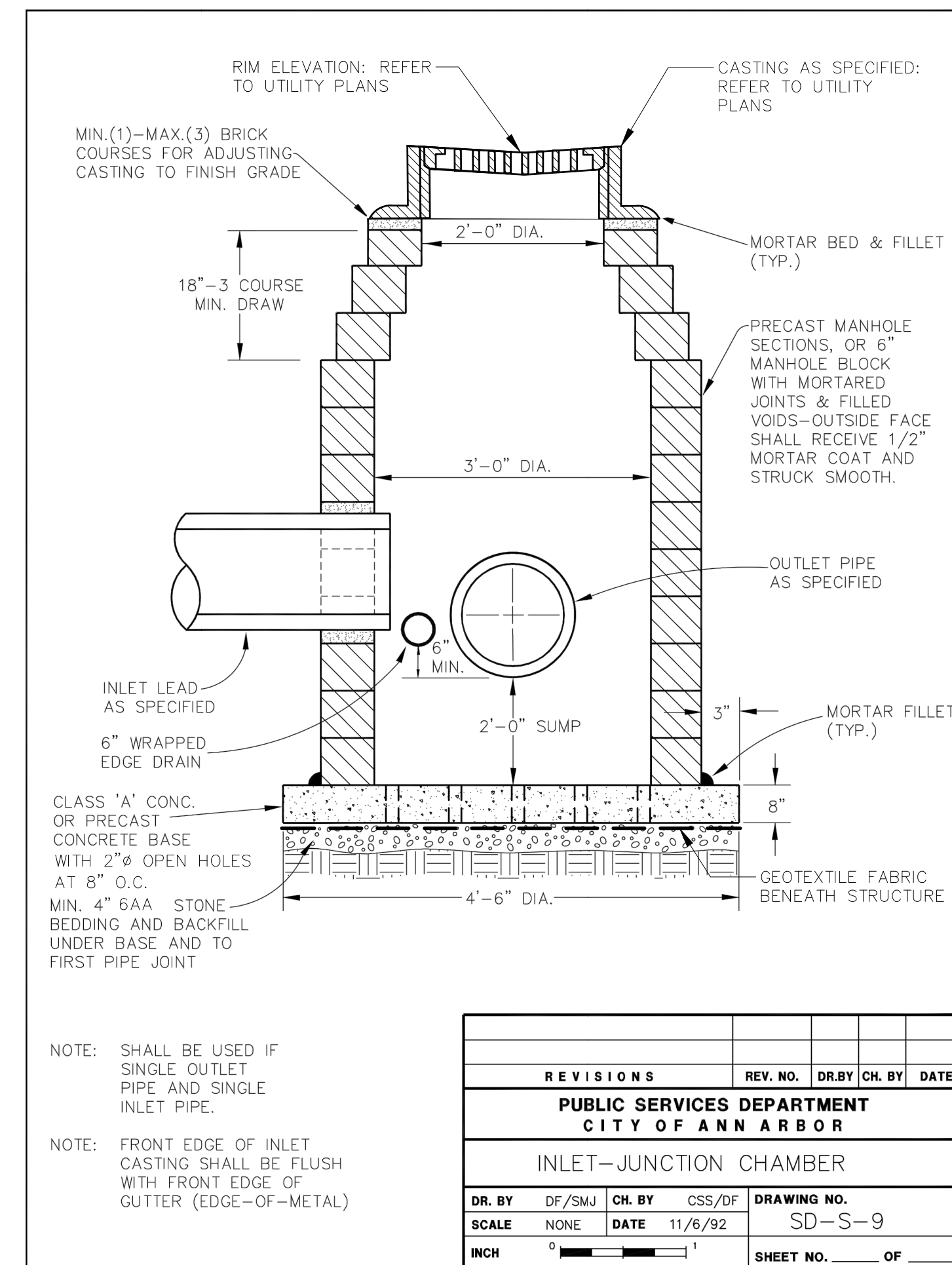
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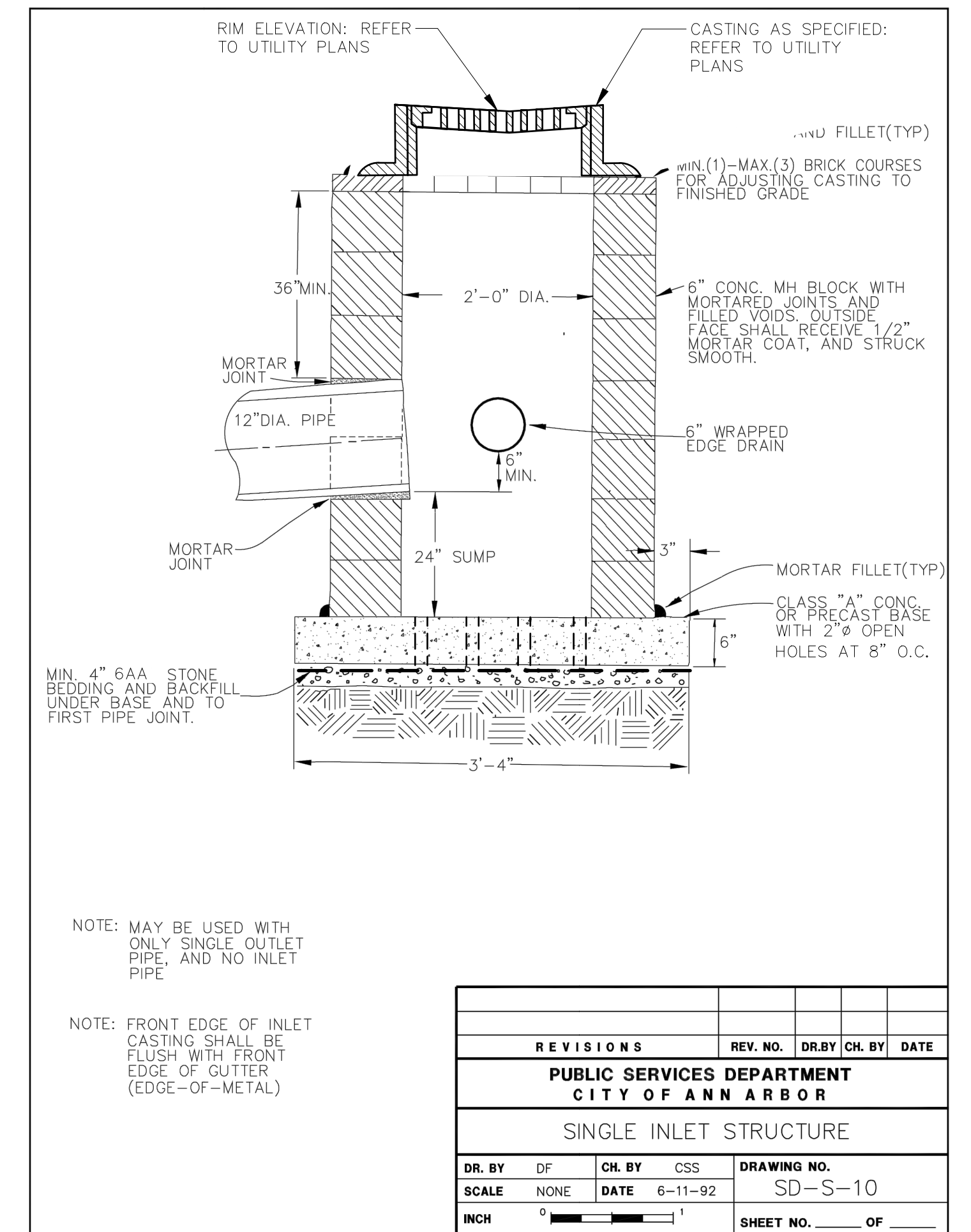
1 STANDARD MANHOLE (TYPE I) SCALE: N.T.S.



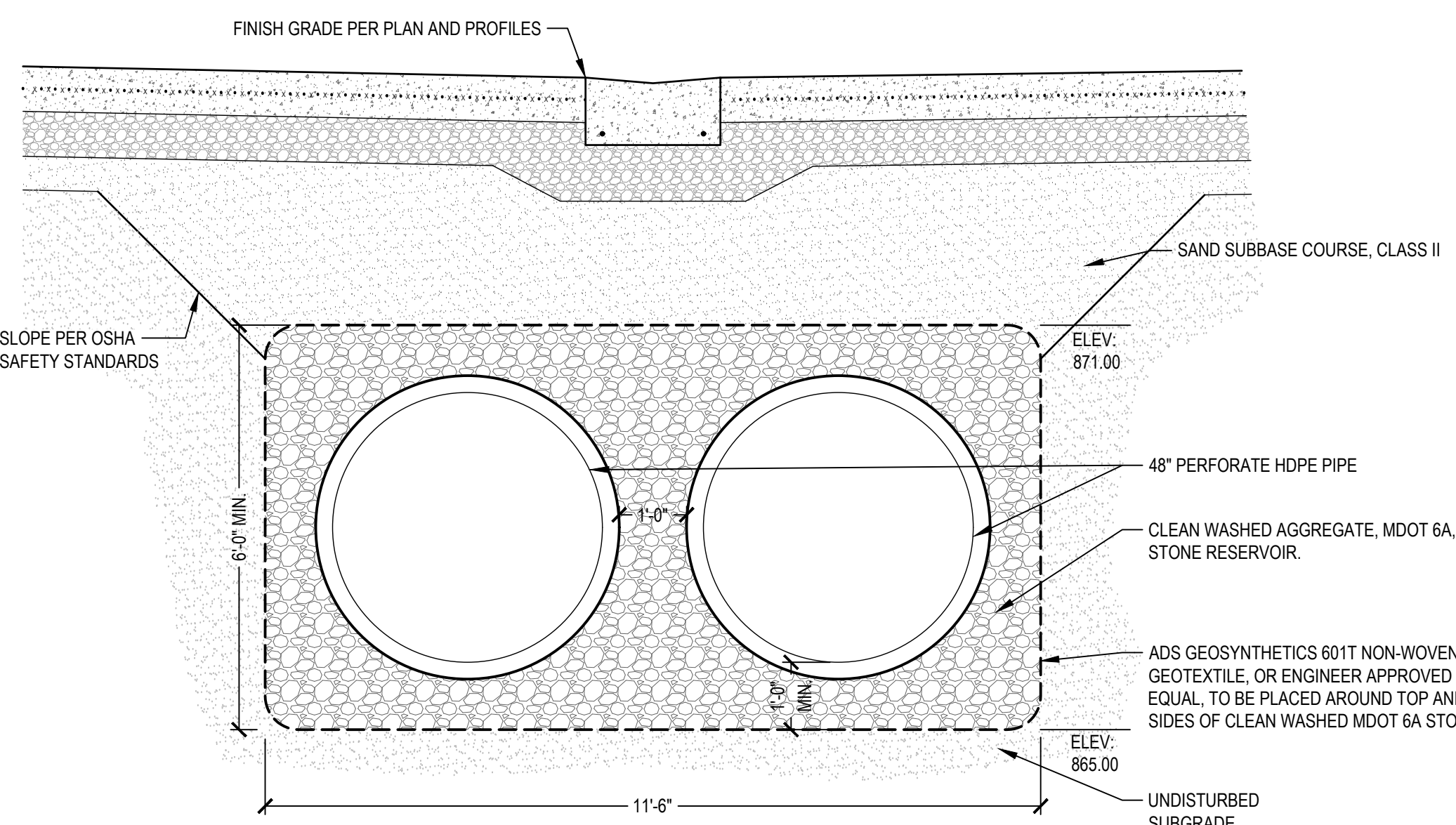
2 STANDARD MANHOLE (TYPE III) SCALE: N.T.S.



3 INLET-JUNCTION STRUCTURE WITH OPEN BOTTOM SCALE: N.T.S.

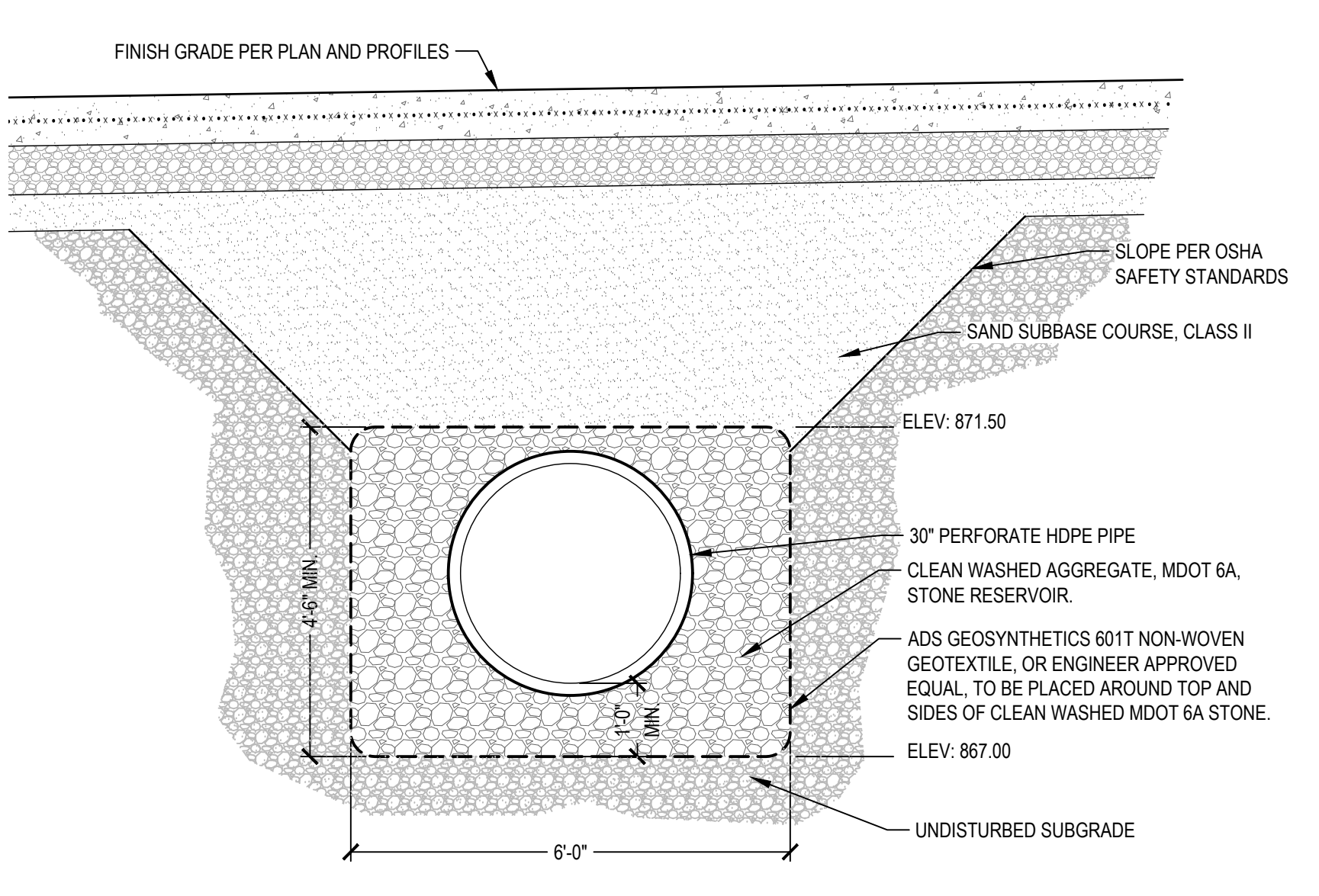


4 SINGLE INLET STRUCTURE WITH OPEN BOTTOM SCALE: N.T.S.



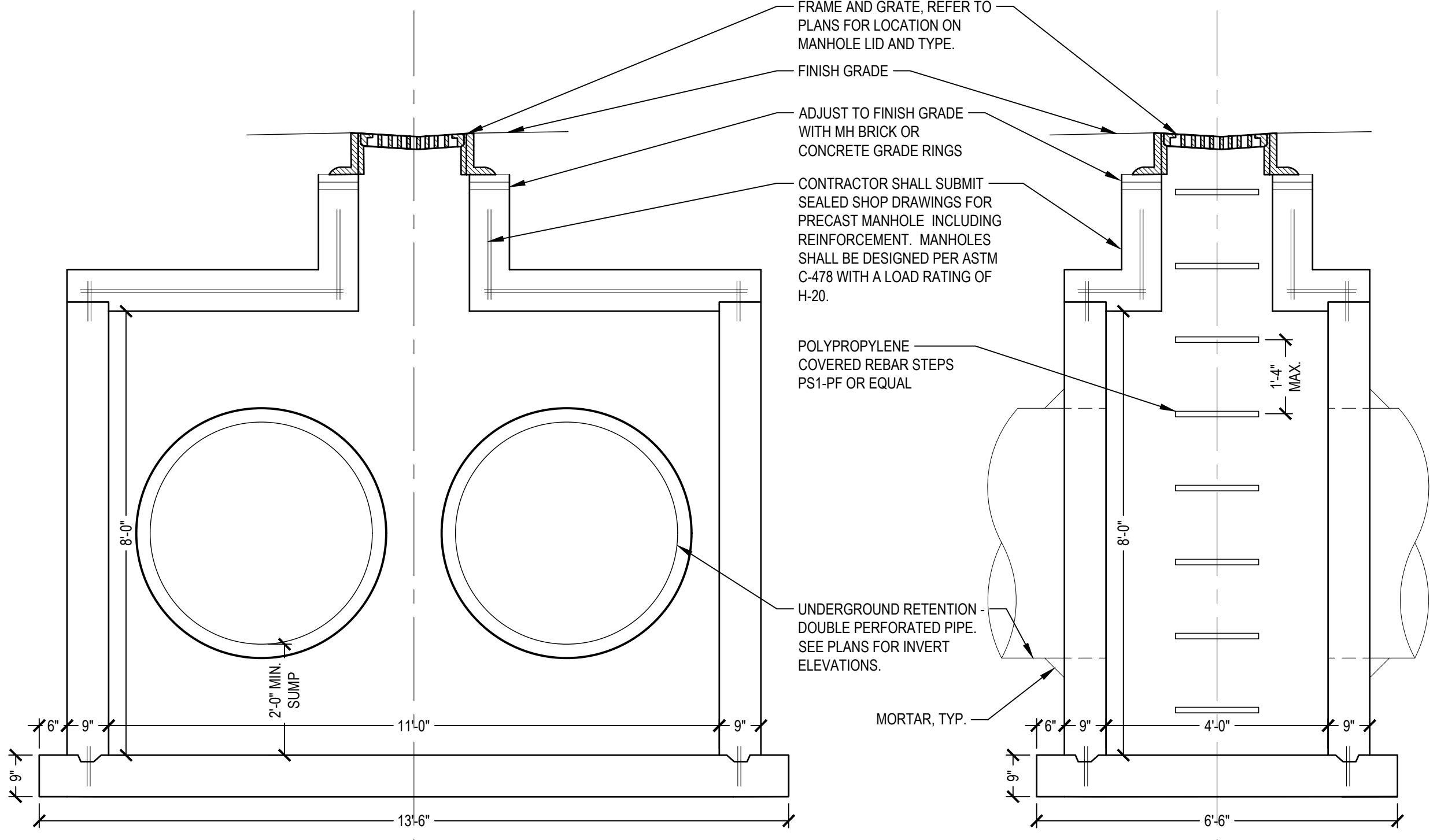
NOTES:
 1. 48" PERFORATE HDPE PIPE SHALL BE ADS N-12 DUAL WALL PERFORATED PIPE OR ENGINEER APPROVED EQUAL PIPE MEETING THE REQUIREMENTS OF AASHTO M294 OR ASTM F2648. PIPE SHALL BE CORRUGATED WITH AN INTEGRALLY FORMED SMOOTH INTERIOR. UNIT PRICE OF THE HDPE PIPING SHALL BE INDEPENDENT AND SEPARATE FROM THE "INFILTRATION TRENCH" PAY ITEM.
 2. PAYMENT FOR CLEAN WASHED AGGREGATE, MDOT 6A, STONE RESERVOIR IS TO BE INCLUDED IN THE UNIT PRICE OF THE ITEM "INFILTRATION TRENCH" AND WILL NOT BE PAID FOR SEPARATELY.
 3. PAYMENT FOR ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE, OR APPROVED EQUAL IS TO BE INCLUDED IN THE UNIT PRICE OF THE ITEM "INFILTRATION TRENCH" AND WILL NOT BE PAID FOR SEPARATELY.

5 UNDERGROUND RETENTION - DOUBLE PERFORATED PIPE SCALE: 1/2" = 1'-0"



NOTES:
 1. 48" PERFORATE HDPE PIPE SHALL BE ADS N-12 DUAL WALL PERFORATED PIPE OR ENGINEER APPROVED EQUAL PIPE MEETING THE REQUIREMENTS OF AASHTO M294 OR ASTM F2648. PIPE SHALL BE CORRUGATED WITH AN INTEGRALLY FORMED SMOOTH INTERIOR. UNIT PRICE OF THE HDPE PIPING SHALL BE INDEPENDENT AND SEPARATE FROM THE "INFILTRATION TRENCH" PAY ITEM.
 2. PAYMENT FOR CLEAN WASHED AGGREGATE, MDOT 6A, STONE RESERVOIR IS TO BE INCLUDED IN THE UNIT PRICE OF THE ITEM "INFILTRATION TRENCH" AND WILL NOT BE PAID FOR SEPARATELY.
 3. PAYMENT FOR ADS GEOSYNTHETICS 601T NON-WOVEN GEOTEXTILE, OR APPROVED EQUAL IS TO BE INCLUDED IN THE UNIT PRICE OF THE ITEM "INFILTRATION TRENCH" AND WILL NOT BE PAID FOR SEPARATELY.

6 UNDERGROUND RETENTION - SINGLE PERFORATED PIPE SCALE: 1/2" = 1'-0"



DETAIL NOTES:
 1. STEPS REQUIRED FOR DEPTH OVER FOUR FEET.
 2. ENGINEERED FILL TO BE USED AS BACKFILL MATERIAL AROUND ALL STORM STRUCTURES.

7 PRECAST CONCRETE VAULT SCALE: 1/2" = 1'-0"

NOTES:
 1. ALL MATERIALS, EQUIPMENT AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF ANN ARBOR STANDARD SPECIFICATIONS AND DETAILS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.

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				100% BID SET	02-18-2022		

STATE ST STREETScape - CITY OF ANN ARBOR

UTILITY DETAILS 1

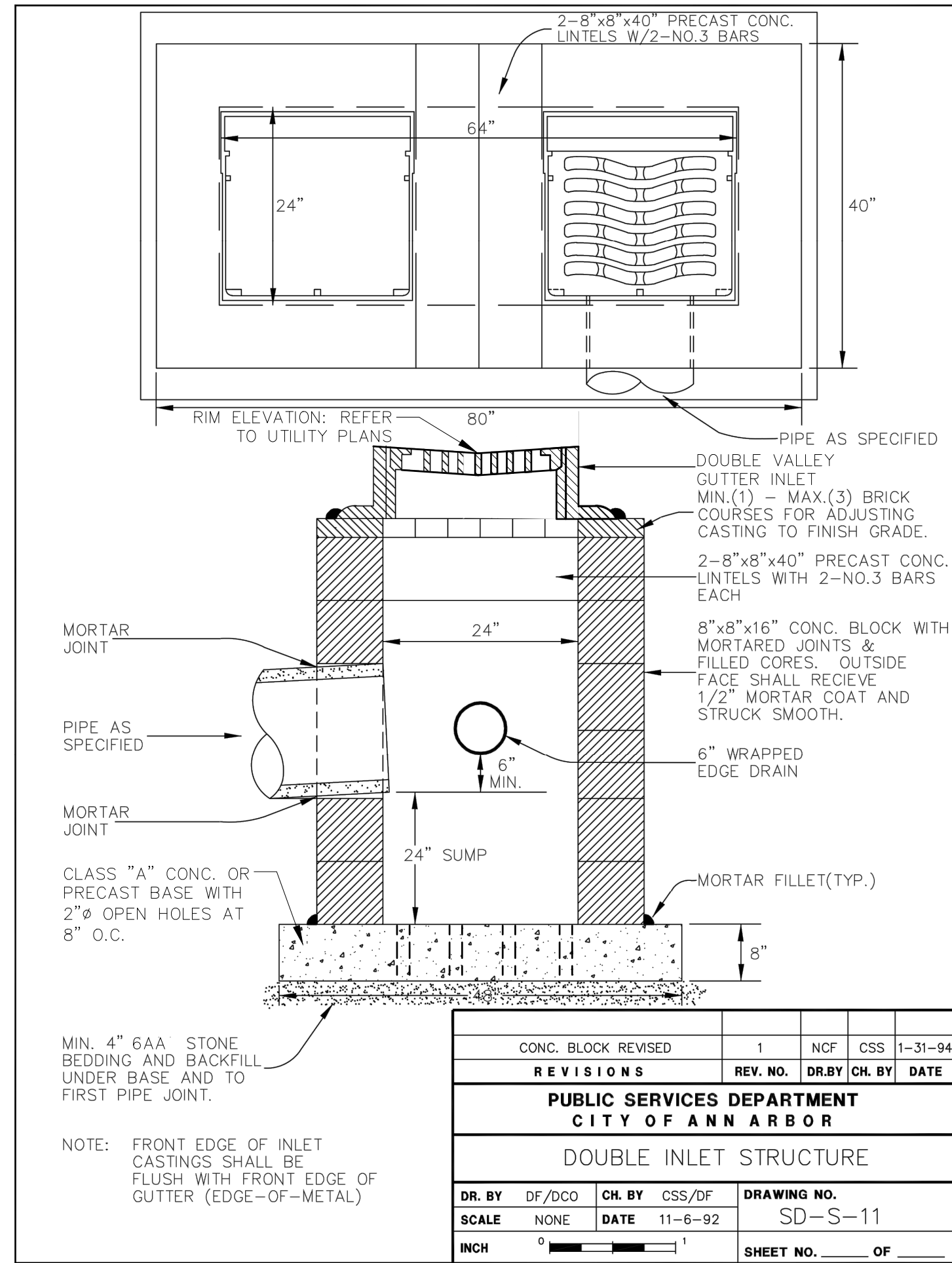
SCALE: 0" = 1'-0"

DRAWING NO. C9.6

SHEET NO. OF

APPROVED BY

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1 DOUBLE VALLEY GUTTER INLET STRUCTURE WITH OPEN BOTTOM SCALE: N.T.S.

TYPE OF CASTING	NEEHAH FOUNDRY	EAST JORDAN IRON WORKS
Valley Gutter Inlet	Approved Equal	5100 Z1 Frame with 5105 M1 Grate Heavy Duty
Double Valley Gutter Inlet	Approved Equal	5100 Z1 Frame with 5105 M1 Grate Heavy Duty
Barrier Curb Inlet	R-3013B, Type S grate (500 Pounds)	7045, Type M1 grate (490 Pounds)
Barrier Curb Double Inlet	R-3249F, Type S grate (410 Pounds)	N/A
Mountable Curb Inlet	R-3034B, Type S grate (500 Pounds)	7065, Type M1 grate (470 Pounds)
Gutter Inlet	R-3448C, Type S grate (285 Pounds)	5080, Type M2 grate (315 Pounds)
Gutter Double Inlet	R-3448B, Type S grate (265 Pounds)	5000, Type M2 grate (285 Pounds)
Yard Drain	R-2560-E1 (285 Pounds)	1040, Type O2 grate (355 Pounds)
Yard Drain in City Park	N/A	1040, Type M1 grate (400 Pounds)
*Manhole Frame & Cover	R-1642, Type C Cover (380 Pounds)	1040, Type A Cover (400 Pounds)
**Watertight Manhole Frame and Cover	N/A	1040-WT (400 Pounds)
Monument Box	N/A	8360 (100 Pounds)

*Frames and covers must have machined bearing surfaces. Covers must have two (2) 1" vent holes located opposite each other and 6" from the edge of the cover. Each cover shall have "Sewer", "S" or "Water", "W" cast in the surface, whichever is applicable.

**Frames and covers must have machined bearing surfaces. Each cover shall have "Sewer", "S" or "Water", "W" cast in the surface, whichever is applicable.

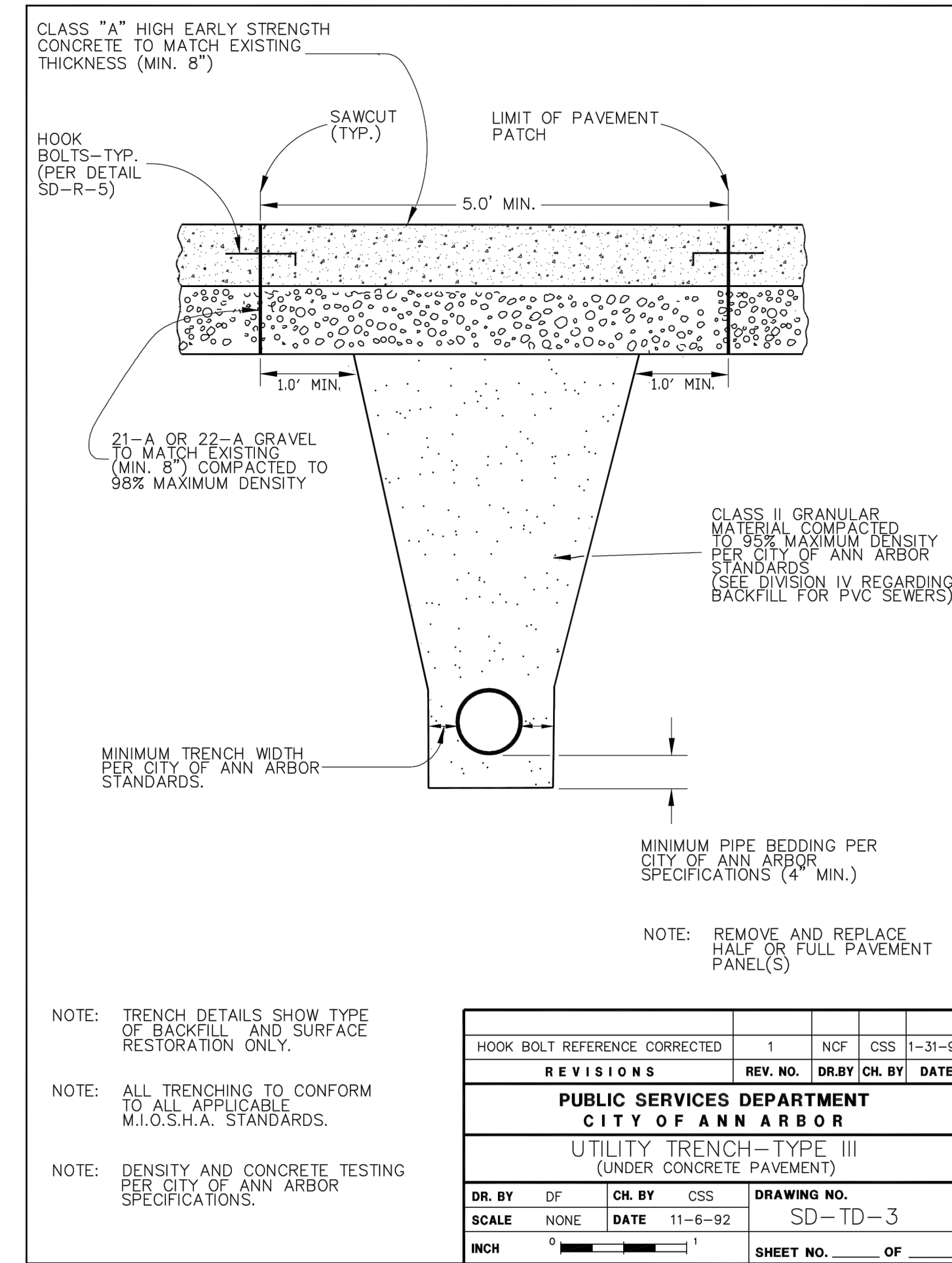
REV. NO.	DR. BY	CH. BY	DATE
1	NCF	CSS	11-31-94

**PUBLIC SERVICES DEPARTMENT
CITY OF ANN ARBOR**

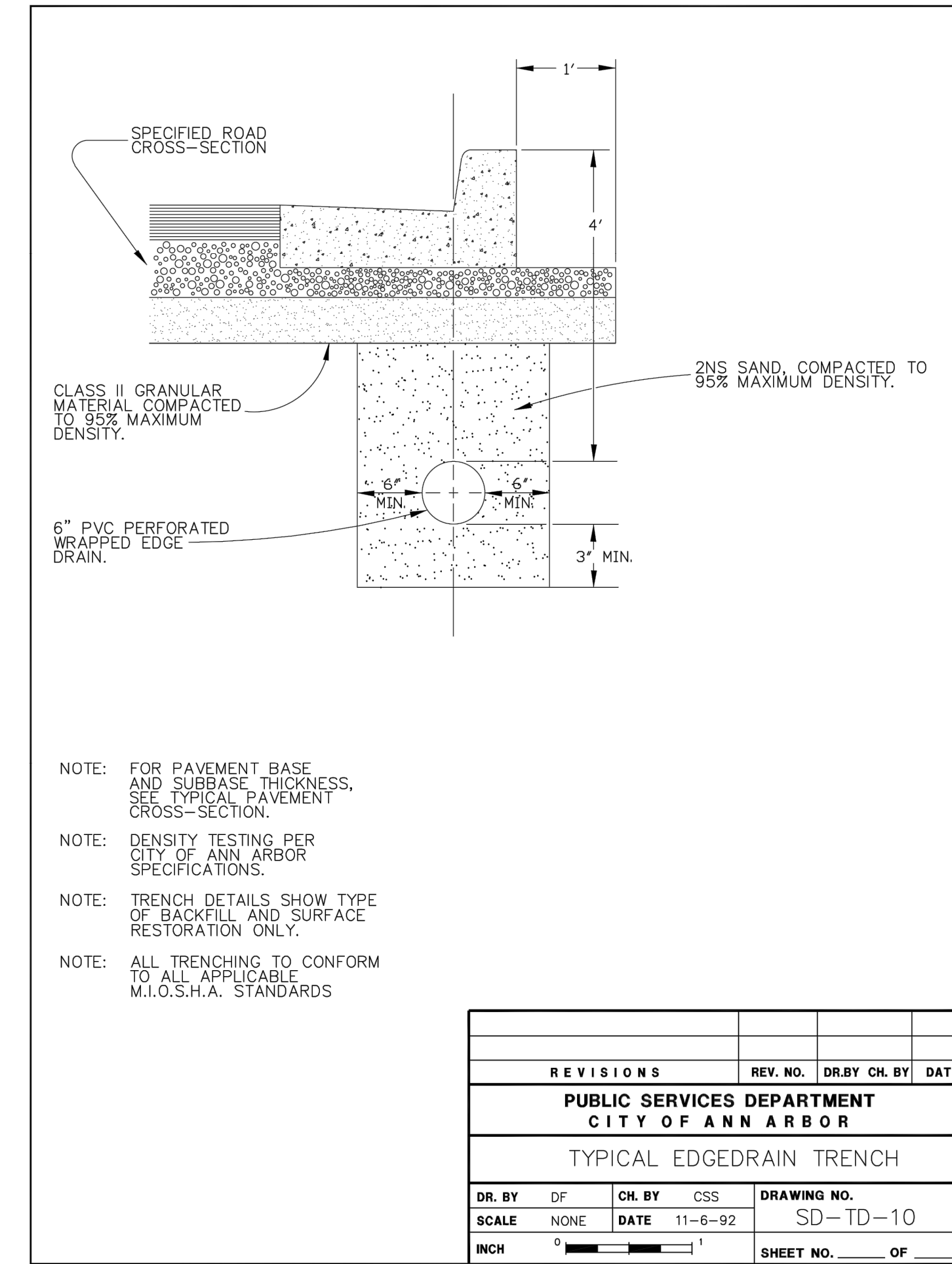
STANDARD CASTING SCHEDULE

DR. BY: JPB, CH. BY: CSS, DATE: 6-12-92, DRAWING NO.: SD-GU-5

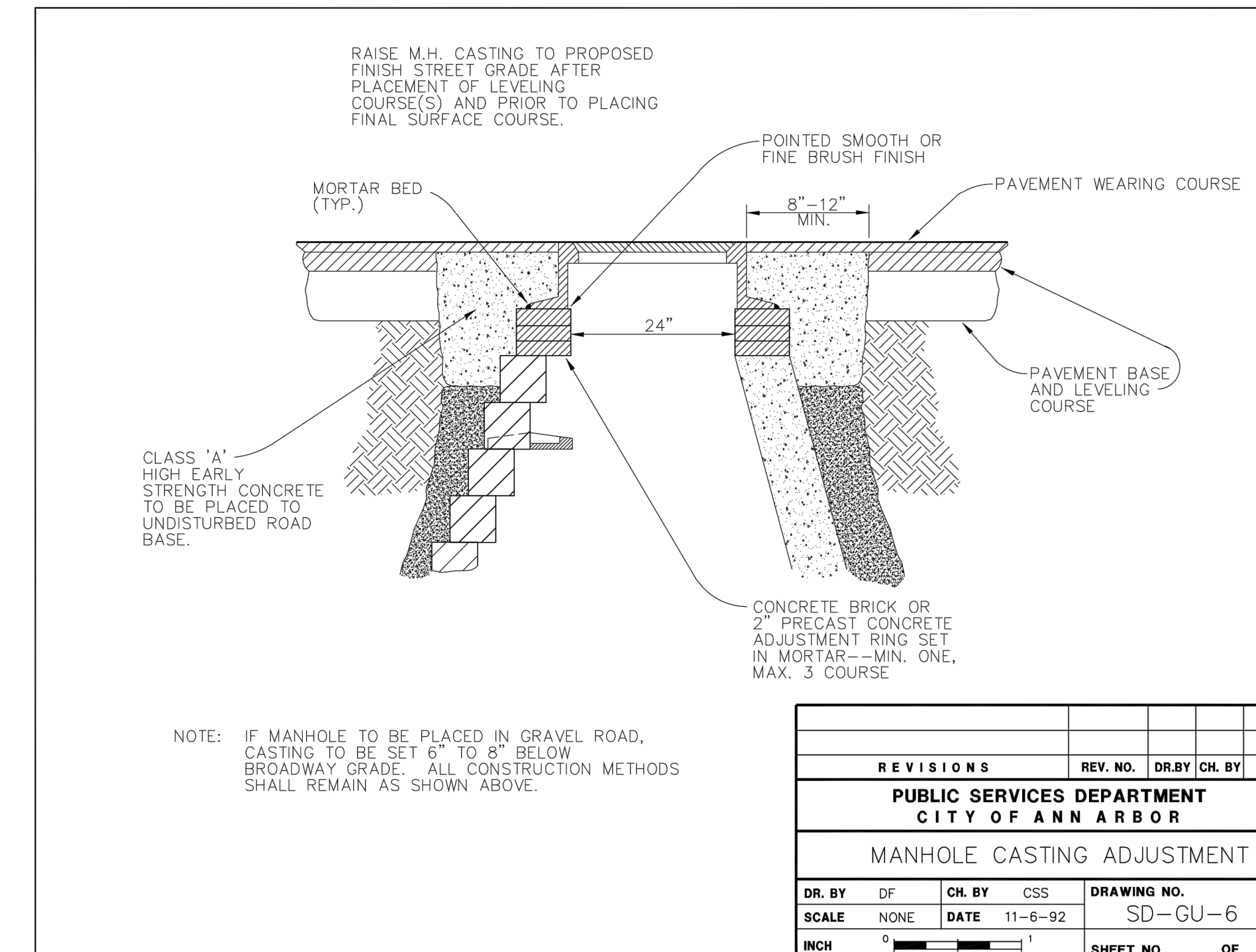
2 STANDARD CASTING SCHEDULE SCALE: N.T.S.



3 UTILITY TRENCH-TYPE III SCALE: N.T.S.



4 TYPICAL EDGEDRAIN TRENCH SCALE: N.T.S.



5 MANHOLE CASTING ADJUSTMENT SCALE: N.T.S.

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NOTES:
1. ALL MATERIALS, EQUIPMENT AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CURRENT CITY OF ANN ARBOR STANDARD SPECIFICATIONS AND DETAILS. THE OMISSION OF ANY CURRENT STANDARD DETAIL DOES NOT RELIEVE THE CONTRACTOR FROM THIS REQUIREMENT.

SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
				100% BID SET	02-18-2022		

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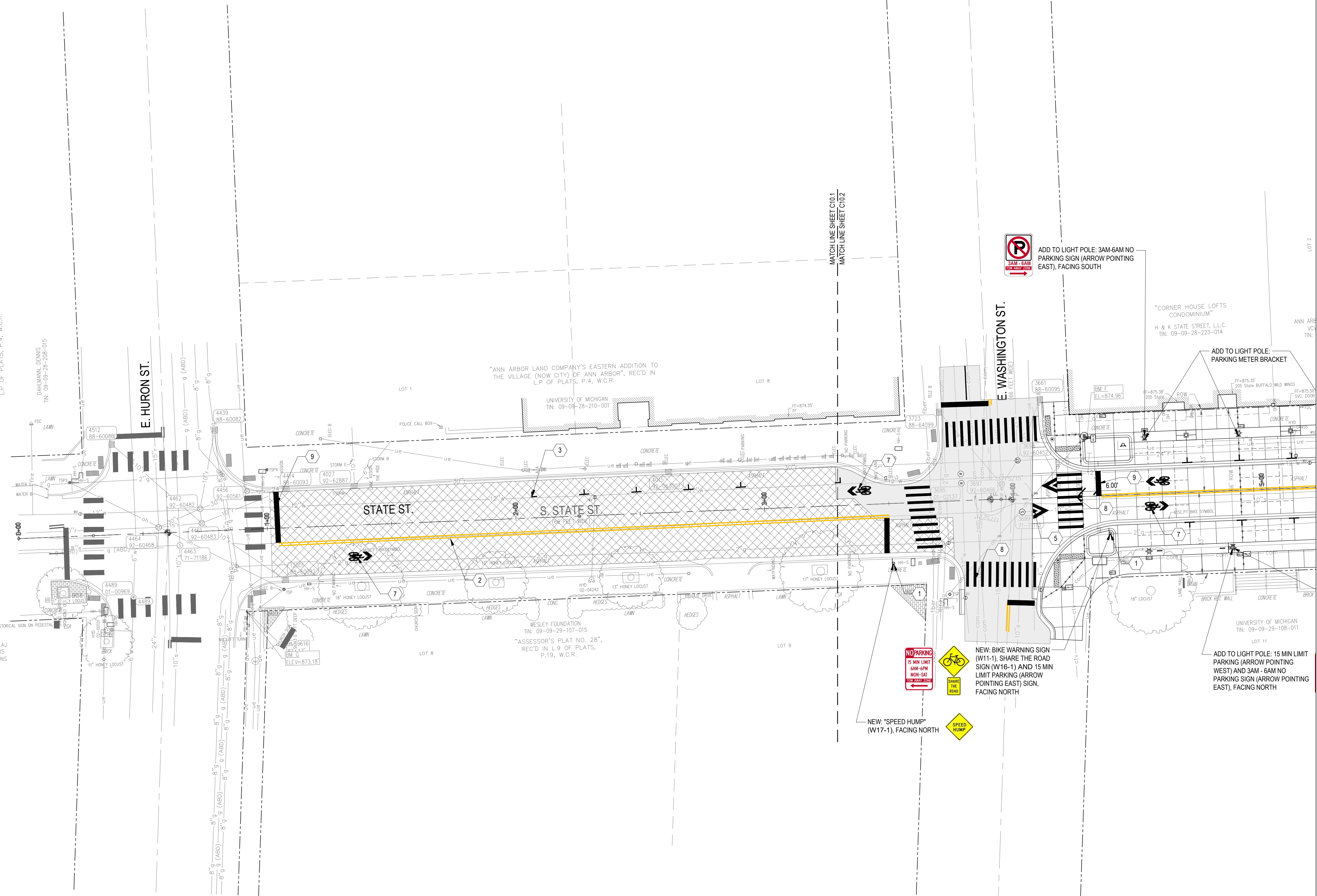
UTILITY DETAILS 1

SCALE: 0" = 10"

DRAWING NO. C9.7

SHEET NO. ___ OF ___

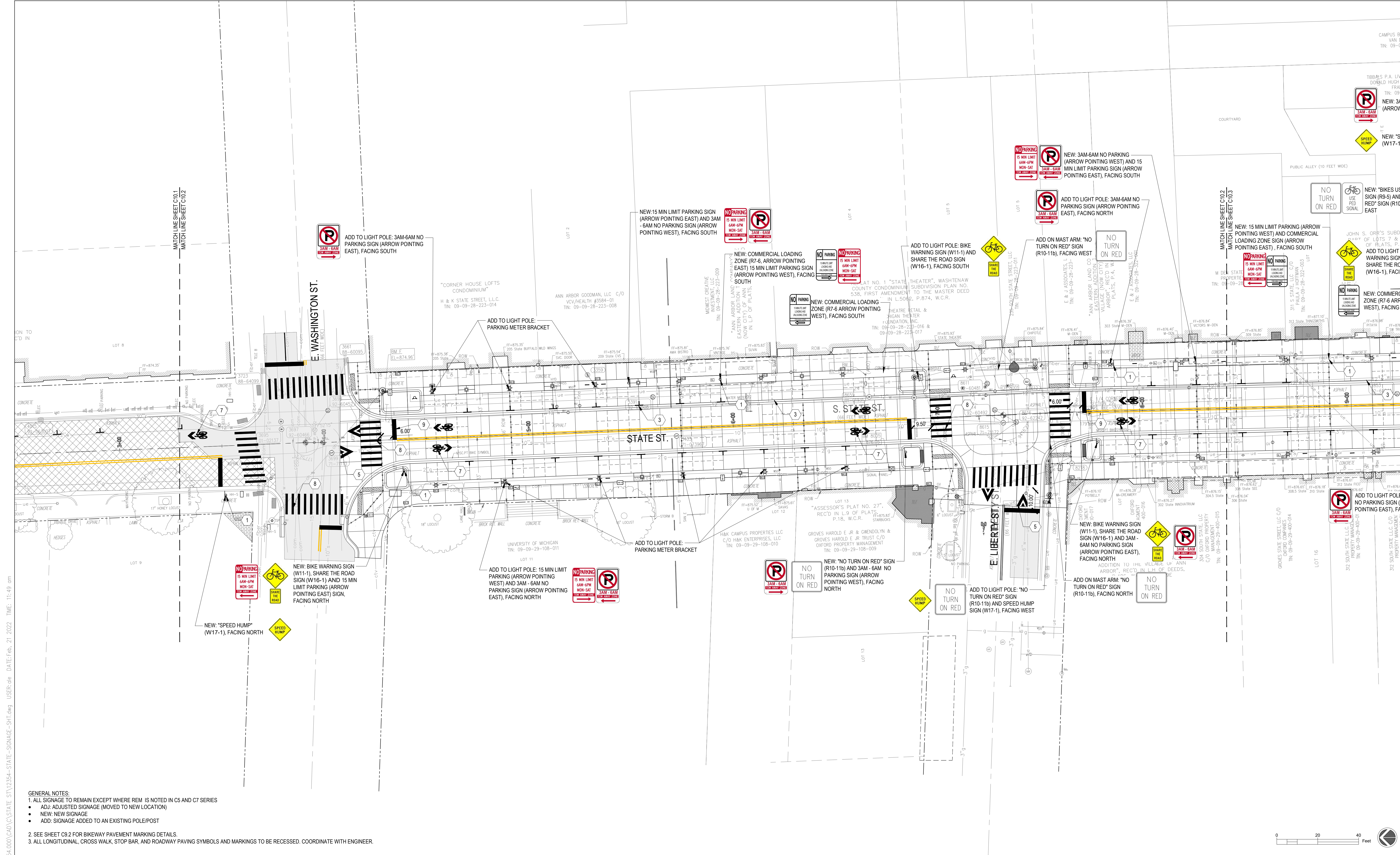
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GENERAL NOTES:
 1. ALL SIGNAGE TO REMAIN EXCEPT WHERE REM IS NOTED IN C5 AND C7 SERIES
 • ADJ: ADJUSTED SIGNAGE (MOVED TO NEW LOCATION)
 • NEW: NEW SIGNAGE
 • ADD: SIGNAGE ADDED TO AN EXISTING POLE/POST
 2. SEE SHEET C9.2 FOR BIKEWAY PAVEMENT MARKING DETAILS.
 3. ALL LONGITUDINAL, CROSS WALK, STOP BAR, AND ROADWAY PAVING SYMBOLS AND MARKINGS TO BE RECESSED. COORDINATE WITH ENGINEER.

1		SIGNAGE, TYP.	7		PAVT MRKG, OVLY COLD PLASTIC, SHARROW SYM., TYP.
2		PAVT MRKG, POLYUREA, 4 INCH, YELLOW, TYP.	8		PAVT MRKG, POLYUREA, 12 INCH, STOP BAR OR CROSSWALK, TYP.
3		PAVT MRKG, POLYUREA, 4 INCH, WHITE, TYP.	9		PAVT MRKG, POLYUREA, 24 INCH, STOP BAR OR CROSSWALK, TYP.
4		PAVT MRKG, OVLY COLD PLASTIC, BIKE ARROW AND YIELD SYM., TYP.	10		PAVT MRKG, ENDURABLEND, BIKE LANE GREEN, TYP.
5		PAVT MRKG, OVLY COLD PLASTIC, SPEED HUMP SYM., TYP.	11		PAVT MRKG, POLYUREA, 18 INCH X 18 INCH BIKEWAY MARKS, TYP.
6		PAVT MRKG, OVLY COLD PLASTIC, BIKE SYM., TYP.	12		PAVT MRKG, SHARED PATH SPECIAL SYM., TYP.

STATE ST STREETScape - CITY OF ANN ARBOR						
SIGNAGE AND PAVEMENT MARKING PLAN 1					SCALE	INCH
DRAWING NO. C10.1						
SHEET NO. ____ OF ____						
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BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
			100% BID SET	02-18-2022		
APPROVED BY _____						



- GENERAL NOTES:**
- ALL SIGNAGE TO REMAIN EXCEPT WHERE REM IS NOTED IN C5 AND C7 SERIES
 - ADJ: ADJUSTED SIGNAGE (MOVED TO NEW LOCATION)
 - NEW: NEW SIGNAGE
 - ADD: SIGNAGE ADDED TO AN EXISTING POLE/POST
 - SEE SHEET C9.2 FOR BIKEWAY PAVEMENT MARKING DETAILS.
 - ALL LONGITUDINAL, CROSS WALK, STOP BAR, AND ROADWAY PAVING SYMBOLS AND MARKINGS TO BE RECESSED. COORDINATE WITH ENGINEER.
- | | | | | | |
|---|---|---|----|---|--|
| 1 | — | SIGNAGE, TYP. | 7 | → | PAVT MRKG, OVLY COLD PLASTIC, SHARROW SYM., TYP. |
| 2 | — | PAVT MRKG, POLYUREA, 4 INCH, YELLOW, TYP. | 8 | — | PAVT MRKG, POLYUREA, 12 INCH, STOP BAR OR CROSSWALK, TYP. |
| 3 | — | PAVT MRKG, POLYUREA, 4 INCH, WHITE, TYP. | 9 | — | PAVT MRKG, POLYUREA, 24 INCH, STOP BAR OR CROSSWALK, TYP. |
| 4 | → | PAVT MRKG, OVLY COLD PLASTIC, BIKE ARROW AND YIELD SYM., TYP. | 10 | — | PAVT MRKG, ENDURABLEND, BIKE LANE GREEN, TYP. |
| 5 | ▲ | PAVT MRKG, OVLY COLD PLASTIC, SPEED HUMP SYM., TYP. | 11 | ■ | PAVT MRKG, POLYUREA, 18 INCH X 18 INCH BIKEWAY MARKS, TYP. |
| 6 | → | PAVT MRKG, OVLY COLD PLASTIC, BIKE SYM., TYP. | 12 | → | PAVT MRKG, SHARED PATH SPECIAL SYM., TYP. |

SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR.BY	CH.BY
			100%	BID SET	02-18-2022		

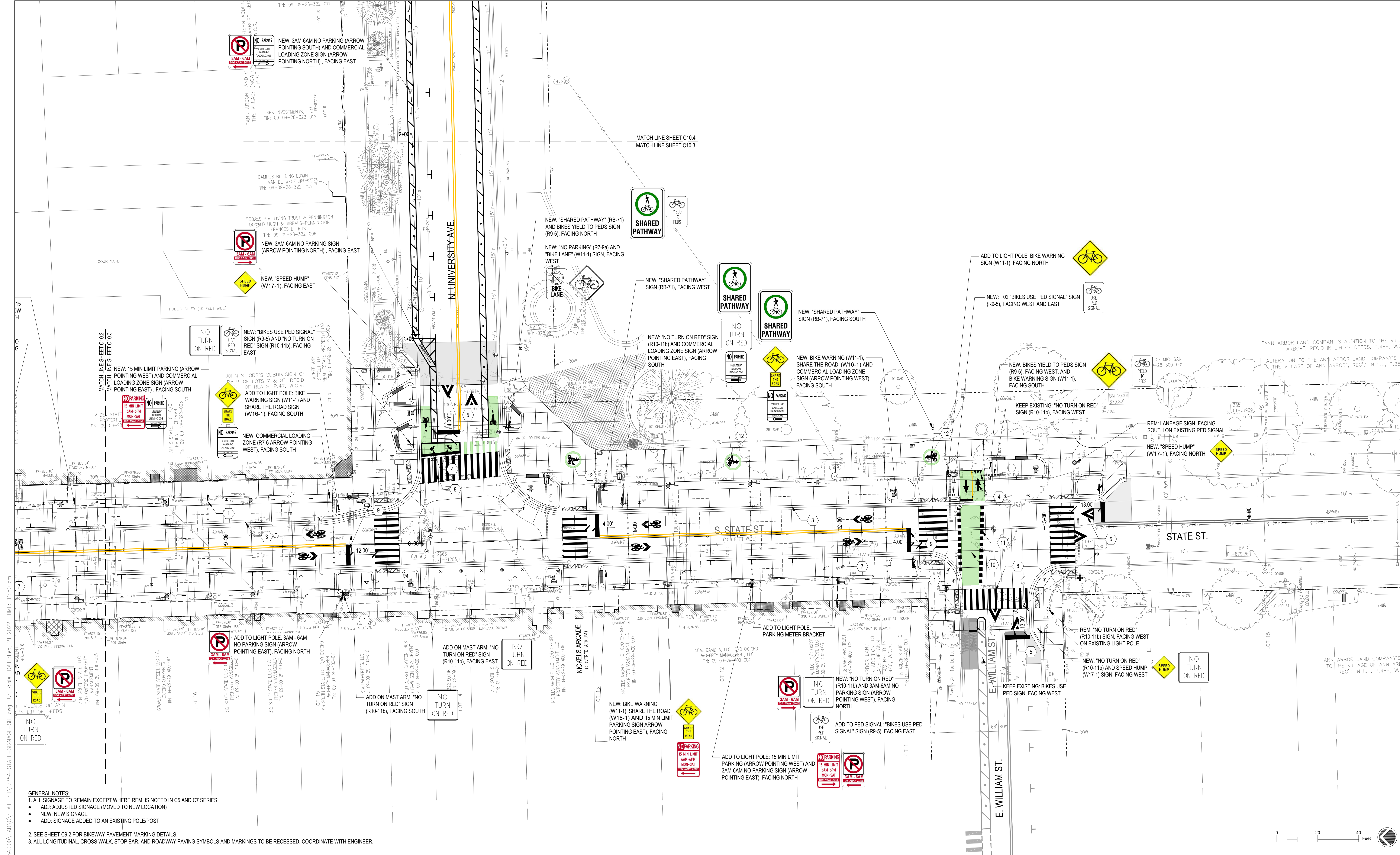
STATE ST STREETScape - CITY OF ANN ARBOR

SIGNAGE AND PAVEMENT MARKING PLAN 2

SCALE	INCH
DRAWING NO.	C10.2
SHEET NO.	OF

APPROVED BY _____

FILE: \\snp-fiber\projects\12354\000\CAD\STATE_ST\12354-STATE_SIGNAGE-SHT.dwg USER: dde DATE: Feb, 21, 2022 TIME: 11:49 am



GENERAL NOTES:

- ALL SIGNAGE TO REMAIN EXCEPT WHERE REM IS NOTED IN C5 AND C7 SERIES
- ADJ: ADJUSTED SIGNAGE (MOVED TO NEW LOCATION)
- NEW: NEW SIGNAGE
- ADD: SIGNAGE ADDED TO AN EXISTING POLE/POST

2. SEE SHEET C9.2 FOR BIKEWAY PAVEMENT MARKING DETAILS.

3. ALL LONGITUDINAL, CROSS WALK, STOP BAR, AND ROADWAY PAVING SYMBOLS AND MARKINGS TO BE RECESSED. COORDINATE WITH ENGINEER.

- | | | | | | |
|---|---|---|----|---|--|
| 1 | — | SIGNAGE, TYP. | 7 | → | PAVT MRKG, OVLY COLD PLASTIC, SHARROW SYM., TYP. |
| 2 | — | PAVT MRKG, POLYUREA, 4 INCH, YELLOW, TYP. | 8 | — | PAVT MRKG, POLYUREA, 12 INCH, STOP BAR OR CROSSWALK, TYP. |
| 3 | — | PAVT MRKG, POLYUREA, 4 INCH, WHITE, TYP. | 9 | — | PAVT MRKG, POLYUREA, 24 INCH, STOP BAR OR CROSSWALK, TYP. |
| 4 | → | PAVT MRKG, OVLY COLD PLASTIC, BIKE ARROW AND YIELD SYM., TYP. | 10 | — | PAVT MRKG, ENDURABLEND, BIKE LANE GREEN, TYP. |
| 5 | ▲ | PAVT MRKG, OVLY COLD PLASTIC, SPEED HUMP SYM., TYP. | 11 | ■ | PAVT MRKG, POLYUREA, 18 INCH X 18 INCH BIKEWAY MARKS, TYP. |
| 6 | → | PAVT MRKG, OVLY COLD PLASTIC, BIKE SYM., TYP. | 12 | → | PAVT MRKG, SHARED PATH SPECIAL SYM., TYP. |

SEE ABOVE	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
		100% BID SET		02-18-2022		

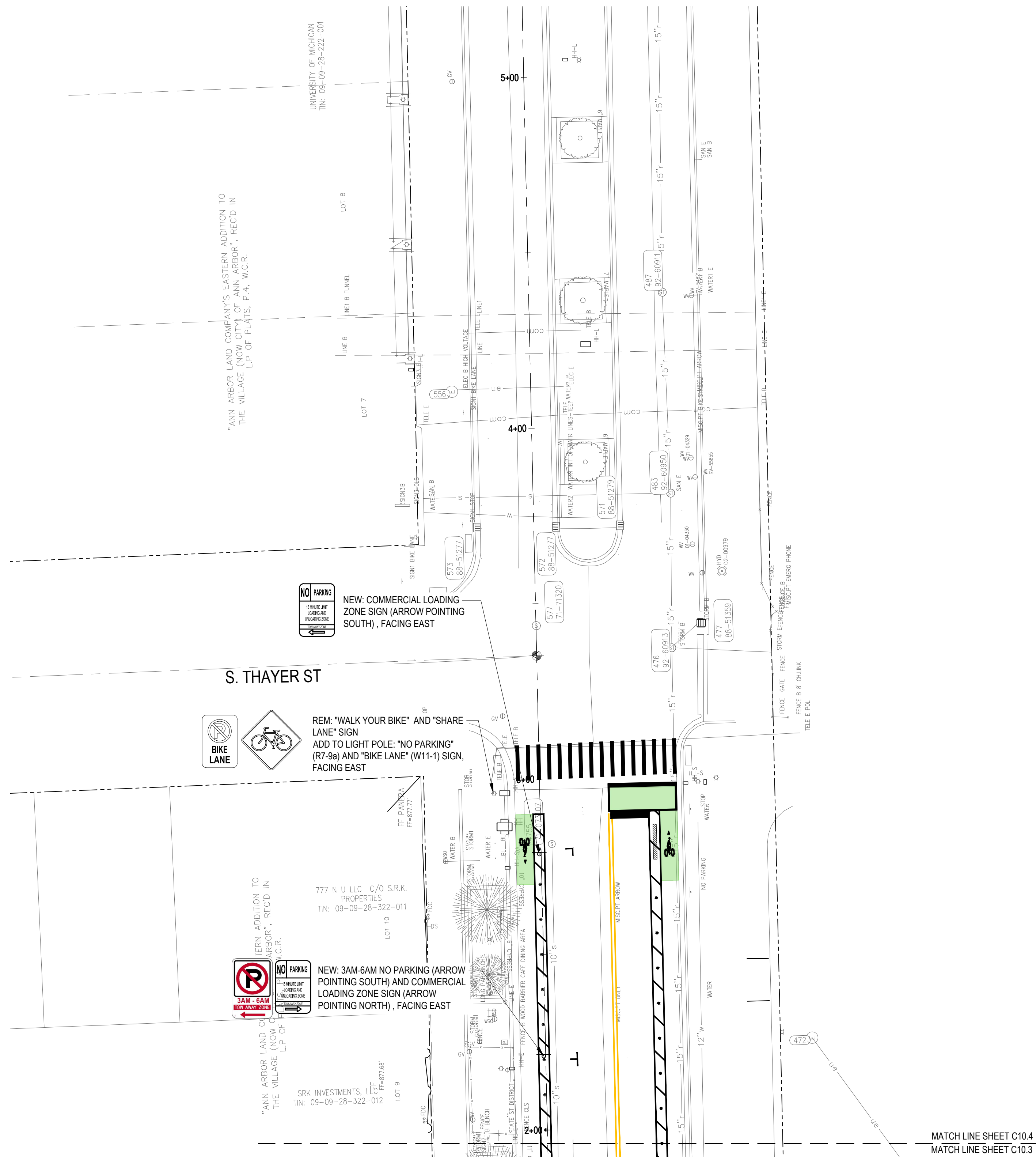
STATE ST STREETScape - CITY OF ANN ARBOR

SIGNAGE AND PAVEMENT MARKING PLAN 3

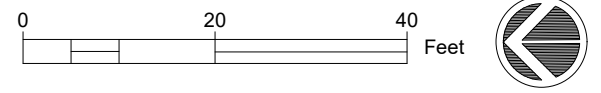
SCALE	INCH
DRAWING NO.	C10.3
SHEET NO.	OF

APPROVED BY _____

FILE: \\sgr-fiber\projects\12354\000\CAD\STATE_S\12354-STATE_SIGNAGE-SHT.dwg USER: dle DATE: Feb, 21, 2022 TIME: 11:51 am



- GENERAL NOTES:**
- ALL SIGNAGE TO REMAIN EXCEPT WHERE REM IS NOTED IN C5 AND C7 SERIES
 - ADJ: ADJUSTED SIGNAGE (MOVED TO NEW LOCATION)
 - NEW: NEW SIGNAGE
 - ADD: SIGNAGE ADDED TO AN EXISTING POLE/POST
 - SEE SHEET C9.2 FOR BIKEWAY PAVEMENT MARKING DETAILS.
 - ALL LONGITUDINAL, CROSS WALK, STOP BAR, AND ROADWAY PAVING SYMBOLS AND MARKINGS TO BE RECESSED. COORDINATE WITH ENGINEER.

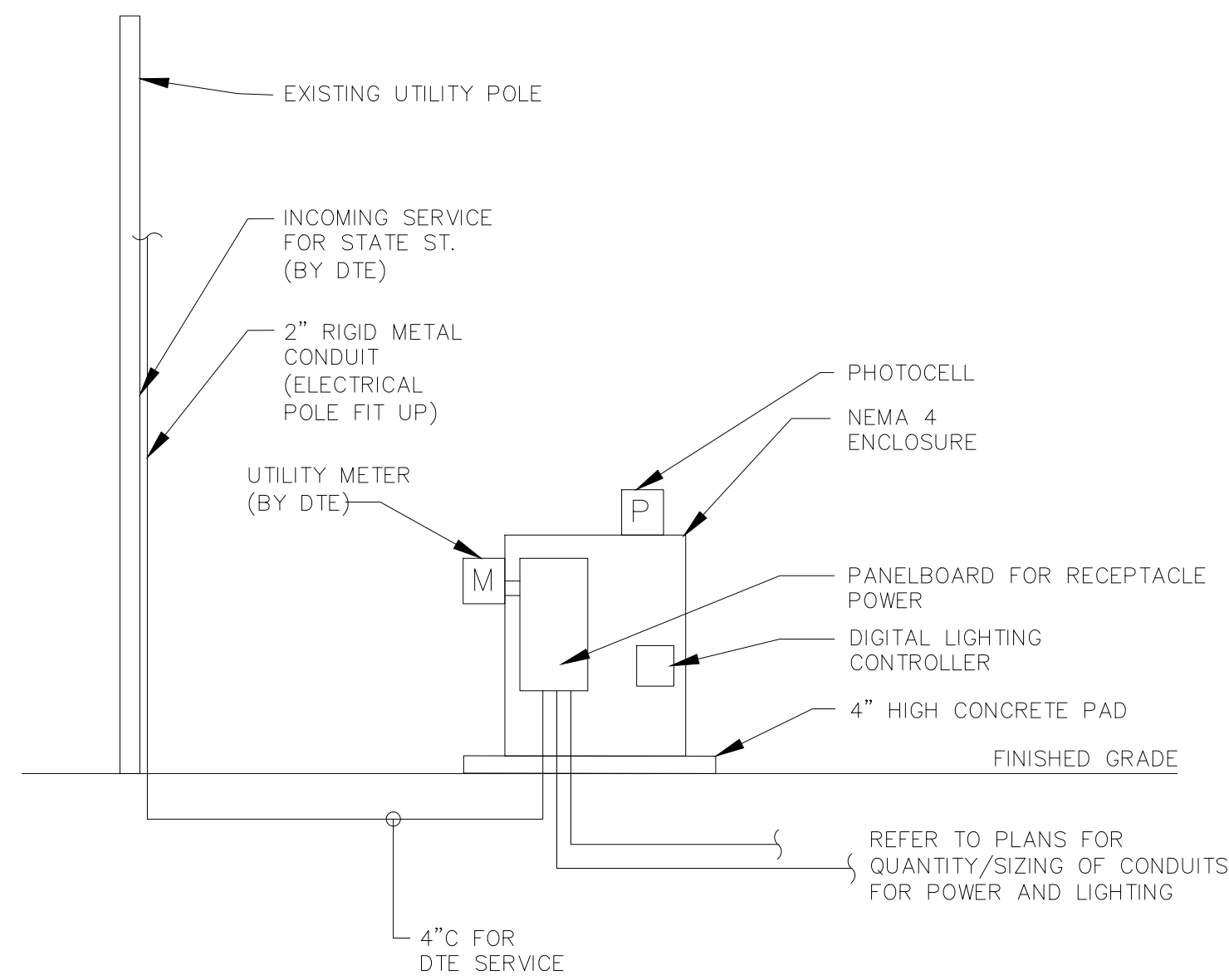


1		SIGNAGE, TYP.	7		PAVT MRKG, OVLY COLD PLASTIC, SHARROW SYM., TYP.
2		PAVT MRKG, POLYUREA, 4 INCH, YELLOW, TYP.	8		PAVT MRKG, POLYUREA, 12 INCH, STOP BAR OR CROSSWALK, TYP.
3		PAVT MRKG, POLYUREA, 4 INCH, WHITE, TYP.	9		PAVT MRKG, POLYUREA, 24 INCH, STOP BAR OR CROSSWALK, TYP.
4		PAVT MRKG, OVLY COLD PLASTIC, BIKE ARROW AND YIELD SYM., TYP.	10		PAVT MRKG, ENDURABLEND, BIKE LANE GREEN, TYP.
5		PAVT MRKG, OVLY COLD PLASTIC, SPEED HUMP SYM., TYP.	11		PAVT MRKG, POLYUREA, 18 INCH X 18 INCH BIKEWAY MARKS, TYP.
6		PAVT MRKG, OVLY COLD PLASTIC, BIKE SYM., TYP.	12		PAVT MRKG, SHARED PATH SPECIAL SYM., TYP.

STATE ST STREETScape - CITY OF ANN ARBOR						
SIGNAGE AND PAVEMENT MARKING PLAN 4				SCALE	INCH	
SEE ABOVE						
BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
			100% BID SET	02-18-2022		
DRAWING NO. C10.4				SHEET NO. ___ OF ___		
APPROVED BY _____						

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	MODEL	WATTAGE	VOLTAGE	LAMP	MOUNTING	COMMENTS
XL1	12'-0" LED GLOBE POLE WITH TYPE V DISTRIBUTION	LUMECON	LBOF-2	84W	120-277V UNV	LED; 6000LM; 3000K CCT; 80 CRI	POLE	LIGHT POLE AND FIXTURE TO BE PURCHASED BY ANN ARBOR DDA.
XL2	SAME AS L1 EXCEPT, TWO FIXTURES MOUNTED TO A SINGLE POLE.							
P1	6"Ø X 15' TALL STRAIGHT STEEL POLE, 11 GAUGE WALL; 4-BOLT STEEL BASE PLATE WITH SQUARE 2-PIECE METAL BASE COVER; PROVIDE ANCHORAGE KIT	HAPCO	RSA			N/A	N/A	
XL3	COMMERCIAL GRADE OUTDOOR RATED FESTOON LIGHTING WITH BLACK CABLE AND UL WEATHERPROOF MEDIUM BASE SOCKETS, 24" ON-CENTER CONFIGURATION, DE-RATED MAXIMUM WATTAGE LABEL FOR LED RETROFIT RELAMPING, 1/16" STAINLESS STEEL SUPPORT CABLE AND WIRE ATTACHMENTS, LED; ELV DIMMING DRIVER; PROVIDE BLACK CANOPY C	MARKETLITE	CALI LIGHTING	1W PER LAMP	120V	LED; 1W; 100LM;	POLE	18" MAXIMUM SAG AT MID POINT OF FESTOON LIGHT RUN.

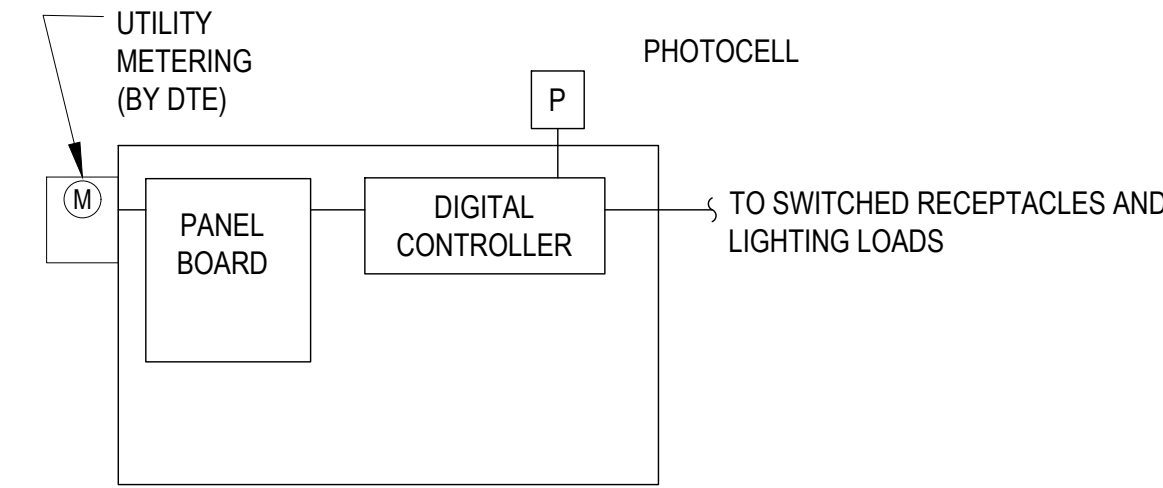


RISER DIAGRAM – STATE ST.

SCALE: NONE

NOTES

- DTE ENERGY COMPANY TO COORDINATE WITH CONTRACTOR FOR EXACT LOCATION OF SERVICE. ALL WIRING FROM SERVICE TO ELECTRICAL ENCLOSURE SHALL BE PROVIDED AND INSTALLED BY DTE. CONTRACTOR SHALL PROVIDE CONDUIT FROM SERVICE TO ELECTRICAL ENCLOSURE. EXPOSED CONDUIT FROM DTE SERVICE SHALL BE RIGID METAL TYPE. CONDUIT BELOW GRADE SHALL BE PVC TYPE. PROVIDE NECESSARY RIGID TO PVC FITTINGS AS REQUIRED. NOTIFY ARCHITECT OF DISCREPANCIES BETWEEN ACTUAL LOCATION OF SERVICE AND WHAT IS SHOWN ON DRAWINGS, PRIOR TO CONSTRUCTION.
- DTE METER SHALL MONITOR ONLY USAGE FOR GFCI RECEPTACLES. LIGHTS FED FROM LOAD CENTER SHALL BE CHARGED AT A FLAT RATE TO BE DETERMINED BY DTE.
- NO CONDUITS SHALL BE MOUNTED TO THE EXTERIOR OF THE ELECTRICAL ENCLOSURE.



LIGHTING CONTROL RISER DIAGRAM

SCALE: NONE

NOTES

- PROVIDE 120V/277V DIGITAL CONTROLLER WITH ADEQUATE QUANTITY OF RELAYS TO CONTROL INDIVIDUAL CIRCUITS PER CONTROL INTENT BELOW.

MANUFACTURER: TORK OR APPROVED EQUAL.

- PROVIDE 120V TURNLOCK TYPE PHOTOCELL TO BE MOUNTED TO THE TOP OF ELECTRICAL ENCLOSURE. INSTALL PER MANUFACTURER RECOMMENDATIONS.

MANUFACTURER: TORK OR APPROVED EQUAL.

CONTROL INTENT:

- POLE LIGHTING FIXTURES AND FESTOON LIGHTS - ON AT DUSK, OFF AT DAWN VIA PHOTOCELL.
- POLE HIGH RECEPTACLES (e.g. HOLIDAY LTG) - ON AT DUSK, OFF AT DAWN VIA PHOTOCELL.

Circ No		Breaker Pole	Load Description	Connected Watts	
		Trips		Phase A	Phase B
1	2	20	STATE STREET LIGHTS EAST	798	
3					798
5	1	20	FESTOON LIGHTING	53	
7	1	20	(3) RECEPTACLE - STATE STREET EAST		540
9	1	20	(2) RECEPTACLE - STATE STREET EAST	360	
11	1	20	(2) RECEPTACLE - STATE STREET EAST		360
13	1	20	(2) RECEPTACLE - STATE STREET EAST	360	
15	1	20	(2) RECEPTACLE - STATE STREET EAST		360
17	1	20	(2) RECEPTACLE - STATE STREET EAST	360	
19	1	20	(2) RECEPTACLE - STATE STREET EAST		360
21	1	20	(2) RECEPTACLE - STATE STREET EAST	360	
23	1	20	(2) RECEPTACLE - STATE STREET EAST		0
25	1	20	SPARE	0	
27	1	20	SPARE		0
29	1	20	SPARE	0	
31	1	20	SPACE		0
33	1	20	SPACE	0	
35	1	20	SPACE		0
37	1	20	SPACE	0	
39	1	20	SPACE		0
41	1	20	SPACE	0	
2	2	20	STATE STREET LIGHTS WEST	630	
4					630
6	1	20	(3) RECEPTACLE - STATE STREET WEST	540	
8	1	20	(2) RECEPTACLE - STATE STREET WEST		360
10	1	20	(2) RECEPTACLE - STATE STREET WEST	360	
12	1	20	(2) RECEPTACLE - STATE STREET WEST		360
14	1	20	(2) RECEPTACLE - STATE STREET WEST	360	
16	1	20	(2) RECEPTACLE - STATE STREET WEST		360
18	1	20	(2) RECEPTACLE - STATE STREET WEST	360	
20	1	20	SPARE		
22	1	20	SPARE	0	
24	1	20	SPARE		0
26	1	20	SPARE	0	
28	1	20	SPARE		0
30	1	20	SPARE	0	
32	1	20	SPACE		0
34	1	20	SPACE	0	
36	1	20	SPACE		0
38	1	20	SPACE		
40	1	20	SPACE	0	
42	1	20	SPACE		0
CONNECTED KW:				9	9
CONNECTED AMPS:				36	36
DEMAND KW:				9	9
DEMAND AMPS:				36	36
Phase Watts:				4,541	4,128

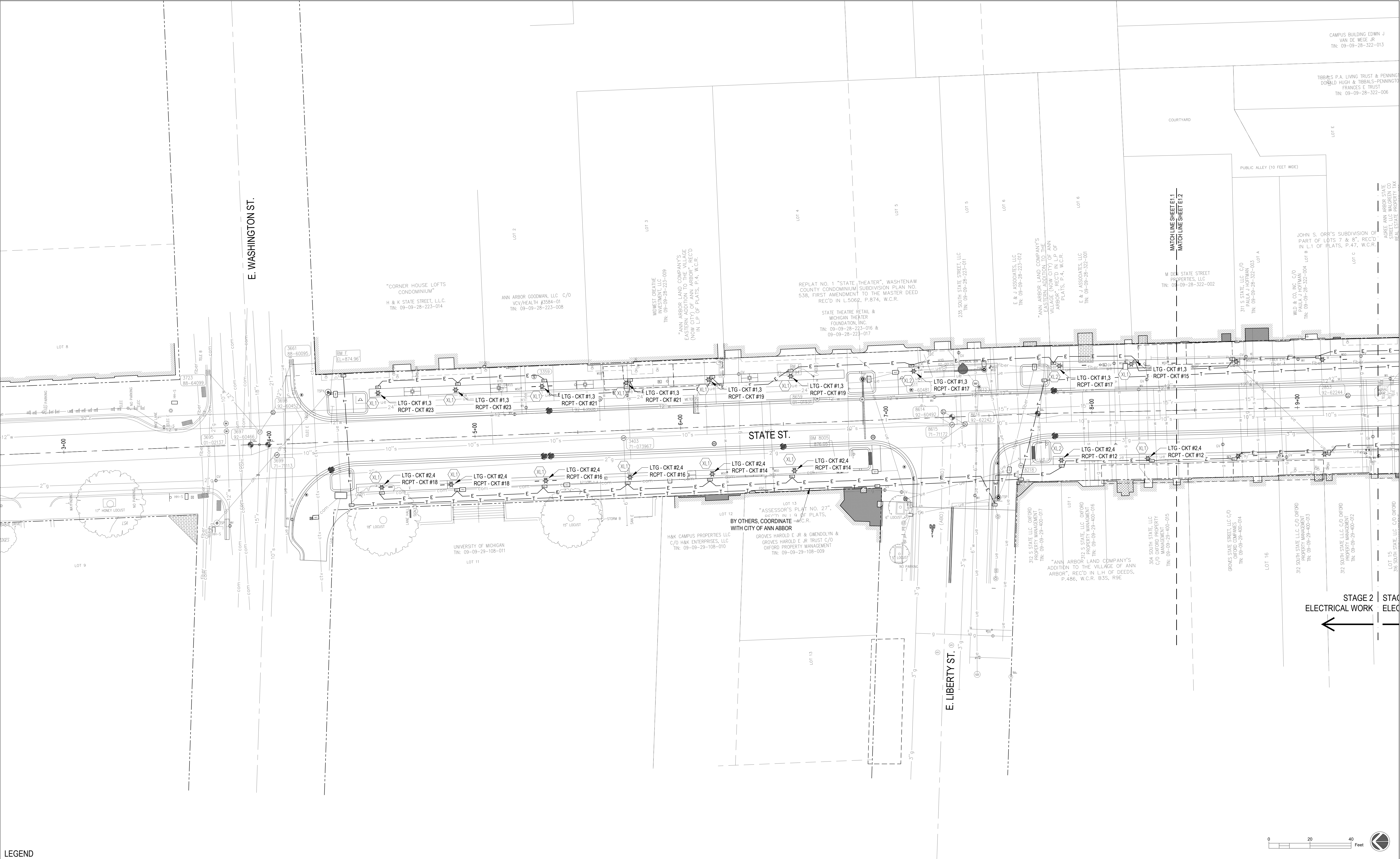
Notes:

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LEGEND

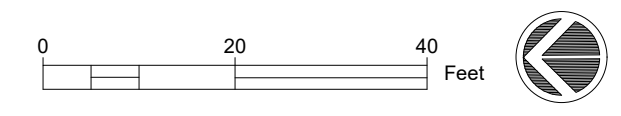
STATE ST STREETScape - CITY OF ANN ARBOR						
SEE ABOVE				ELECTRICAL SCHEDULES		
				SCALE	INCH	
BENCH MARK				DRAWING NO. E1.0		
SURVEY BOOK				SHEET NO. ___ OF ___		
REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY	APPROVED BY _____	

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LEGEND

	ELECTRICAL CONDUIT ROUTED UNDERGROUND
	TELECOM CONDUIT ROUTED UNDERGROUND
	TELECOM HANDHOLE
	ELECTRICAL HANDHOLE
	FIXTURE TYPE WITH FIXTURE NUMBER
	POLE MOUNTED PEDESTRIAN LIGHT



SEE ABOVE					
BENCH MARK	SURVEY BOOK	100% BID SET	02-18-2022		
REV. NO.	DESCRIPTION	DATE	DR.BY	CH.BY	

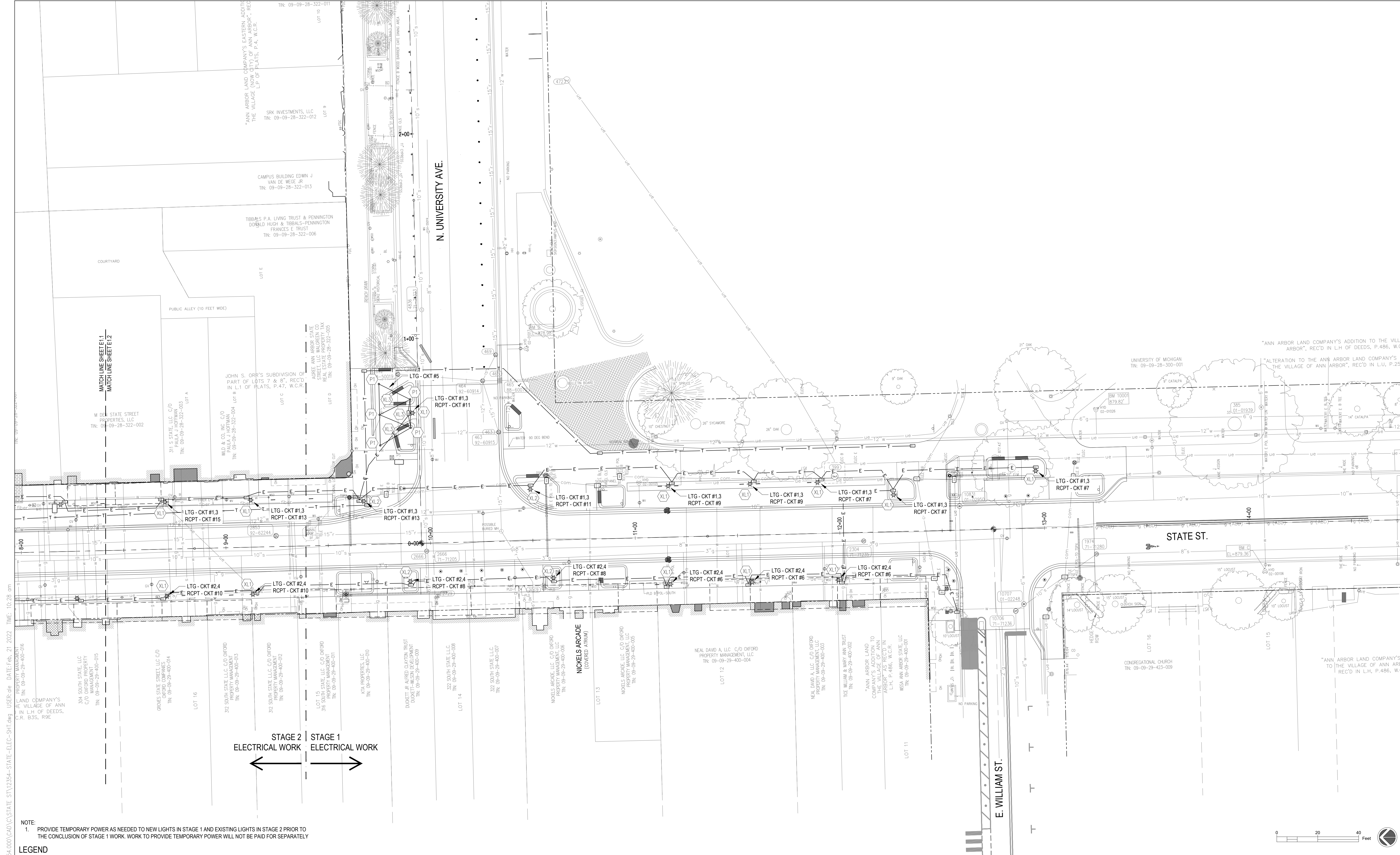
STATE ST STREETScape - CITY OF ANN ARBOR

ELECTRICAL PLAN 1

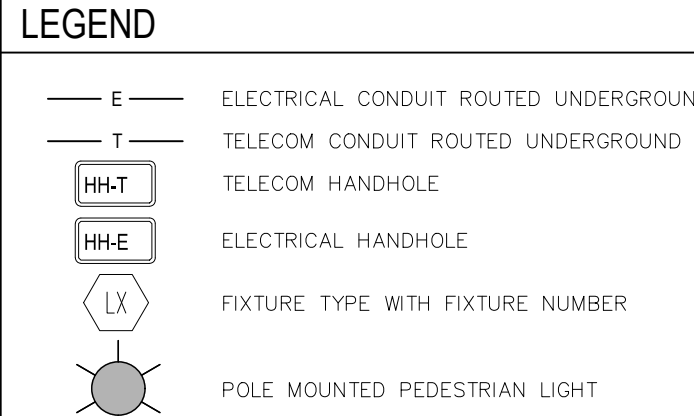
SCALE	INCH
DRAWING NO.	E.1.1
SHEET NO.	OF

APPROVED BY _____

STAGE 2 | STAGE ELECTRICAL WORK



NOTE:
 1. PROVIDE TEMPORARY POWER AS NEEDED TO NEW LIGHTS IN STAGE 1 AND EXISTING LIGHTS IN STAGE 2 PRIOR TO THE CONCLUSION OF STAGE 1 WORK. WORK TO PROVIDE TEMPORARY POWER WILL NOT BE PAID FOR SEPARATELY



SEE ABOVE	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR.BY	CH.BY
		100%	BID SET	02-18-2022		

STATE ST STREETScape - CITY OF ANN ARBOR

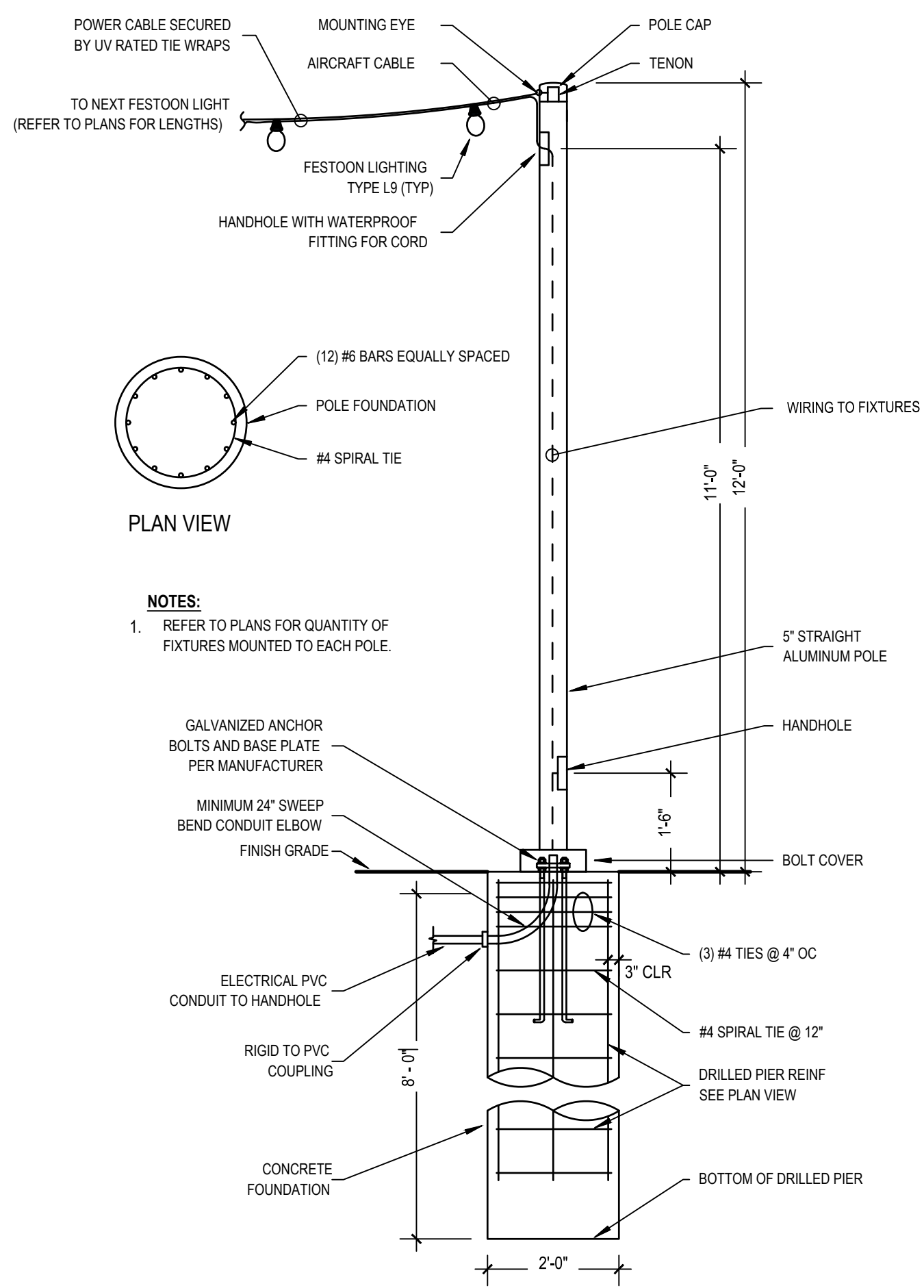
ELECTRICAL PLAN 2

SCALE	INCH
DRAWING NO. E1.2	
SHEET NO. ___ OF ___	

APPROVED BY _____

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 PROPERTY MANAGEMENT
 TIN: 09-09-29-400-016
 LAND COMPANY'S
 THE VILLAGE OF ANN
 ARBOR, REC'D IN L.H. OF DEEDS,
 P. 486, W.C.R.
 364 SOUTH STATE, LLC
 C/O OXFORD PROPERTY
 MANAGEMENT
 TIN: 09-09-29-400-015
 GROVES STATE STREET, LLC C/O
 OXFORD COMPANIES
 TIN: 09-09-29-400-014
 LOT 16
 312 SOUTH STATE, LLC C/O OXFORD
 PROPERTY MANAGEMENT
 TIN: 09-09-29-400-013
 312 SOUTH STATE, LLC C/O OXFORD
 PROPERTY MANAGEMENT
 TIN: 09-09-29-400-012
 LOT 15
 316 SOUTH STATE, LLC C/O OXFORD
 PROPERTY MANAGEMENT
 TIN: 09-09-29-400-011
 KTA PROPERTIES, LLC
 TIN: 09-09-29-400-010
 DUCKETT & MESSER CLAYTON TRUST
 01 CACTUS AVENUE DEVELOPMENT
 TIN: 09-09-29-400-009
 LOT 14
 322 SOUTH STATE, LLC
 TIN: 09-09-29-400-008
 322 SOUTH STATE, LLC
 TIN: 09-09-29-400-007
 NICKELS ARCADE, LLC C/O OXFORD
 PROPERTY MANAGEMENT, LLC
 TIN: 09-09-29-400-006
 LOT 13
 NICKELS ARCADE, LLC C/O OXFORD
 PROPERTY MANAGEMENT, LLC
 TIN: 09-09-29-400-005
 NEAL DAVID A. LLC C/O OXFORD
 PROPERTY MANAGEMENT, LLC
 TIN: 09-09-29-400-004
 LOT 12
 NEAL DAVID A. LLC C/O OXFORD
 PROPERTY MANAGEMENT, LLC
 TIN: 09-09-29-400-003
 TICE WILLIAM & MARY ANN TRUST
 TIN: 09-09-29-400-002
 "ANN ARBOR LAND
 COMPANY'S ADDITION TO
 THE VILLAGE OF ANN ARBOR"
 REC'D IN L.H. OF DEEDS,
 P. 486, W.C.R.
 YESA ANN ARBOR STATE, LLC
 TIN: 09-09-29-400-001
 LOT 11
 10707
 01-02245
 10706
 71-71236
 CONGREGATIONAL CHURCH
 TIN: 09-09-29-423-009
 LOT 10
 "ANN ARBOR LAND COMPANY'S ADDITION TO THE VILLAGE OF ANN ARBOR", REC'D IN L.H. OF DEEDS, P.486, W.C.R.
 "ALTERATION TO THE ANN ARBOR LAND COMPANY'S ADDITION TO THE VILLAGE OF ANN ARBOR", REC'D IN L.U., P.252.
 UNIVERSITY OF MICHIGAN
 TIN: 09-09-28-300-001
 "ANN ARBOR LAND COMPANY'S ADDITION TO THE VILLAGE OF ANN ARBOR", REC'D IN L.H. OF DEEDS, P.486, W.C.R.
 SRK INVESTMENTS, LLC
 TIN: 09-09-28-322-012
 CAMPUS BUILDING EDWIN J
 VAN DE WEGE JR
 TIN: 09-09-28-322-013
 TIBBALS P.A. LIVING TRUST & PENNINGTON
 DONALD HUGH & TIBBALS-PENNINGTON
 FRANCIS E. TRUST
 TIN: 09-09-28-322-006
 JOHN C. ORR'S SUBDIVISION OF
 PART OF LOTS 7 & 8, REC'D
 IN L.I. OF PLATS, P.47, W.C.R.
 AN ARBOR STATE
 STREET, LLC WALGREEN CO
 REAL ESTATE PROPERTY TRUST
 TIN: 09-09-28-322-005
 WLD & CO, INC. C/O
 PAULA J. HOFFMAN
 TIN: 09-09-28-322-004
 LOT 9
 311 S STATE, LLC C/O
 PAULA J. HOFFMAN
 TIN: 09-09-28-322-003
 M DE STATE STREET
 PROPERTIES, LLC
 TIN: 09-09-28-322-002
 MATCH LINE SHEET E11
 MATCH LINE SHEET E12
 COURTYARD
 PUBLIC ALLEY (10 FEET WIDE)
 N. UNIVERSITY AVE.
 STATE ST.
 E. WILLIAM ST.

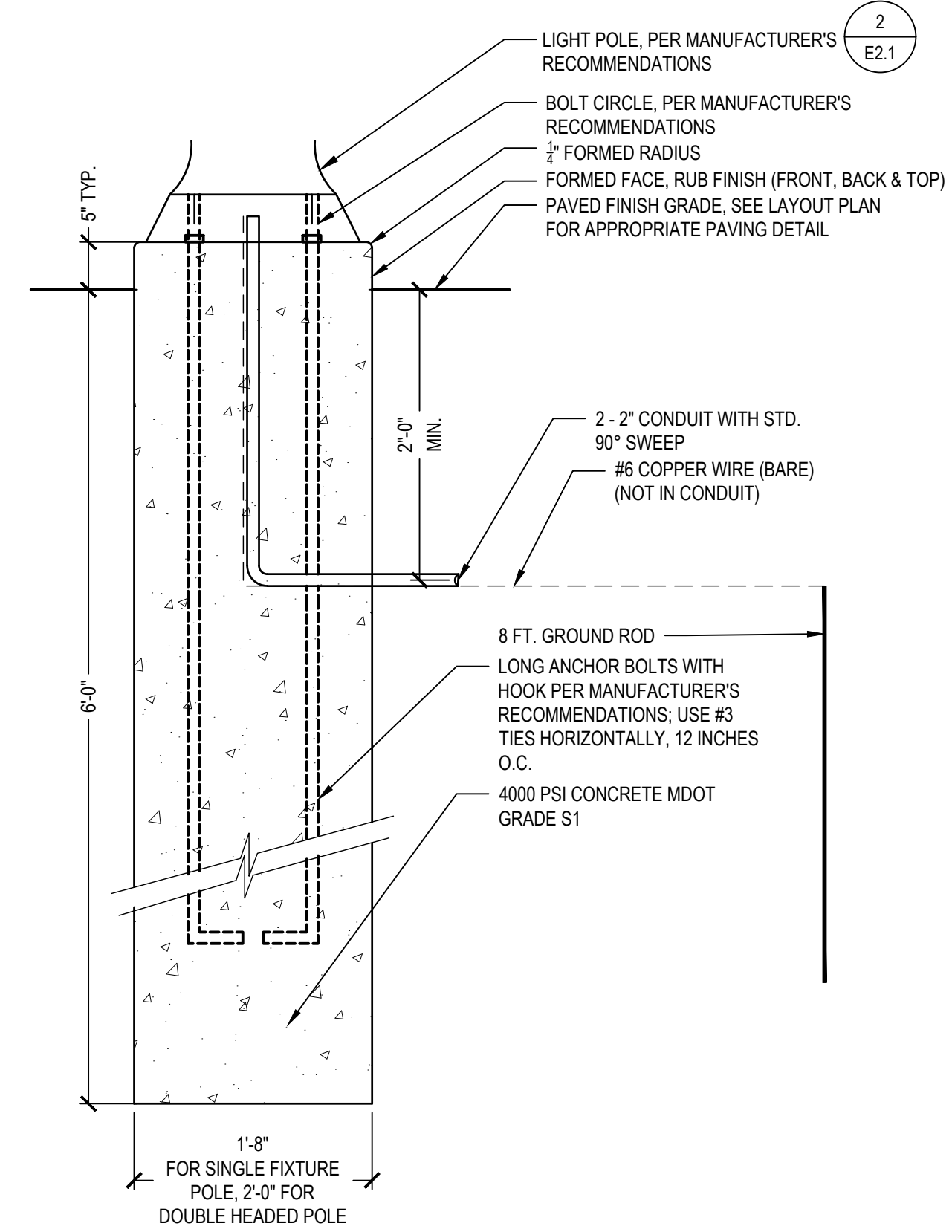
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NOTES:
1. REFER TO PLANS FOR QUANTITY OF FIXTURES MOUNTED TO EACH POLE.

1 FESTOON LIGHT POLE

SCALE: NTS

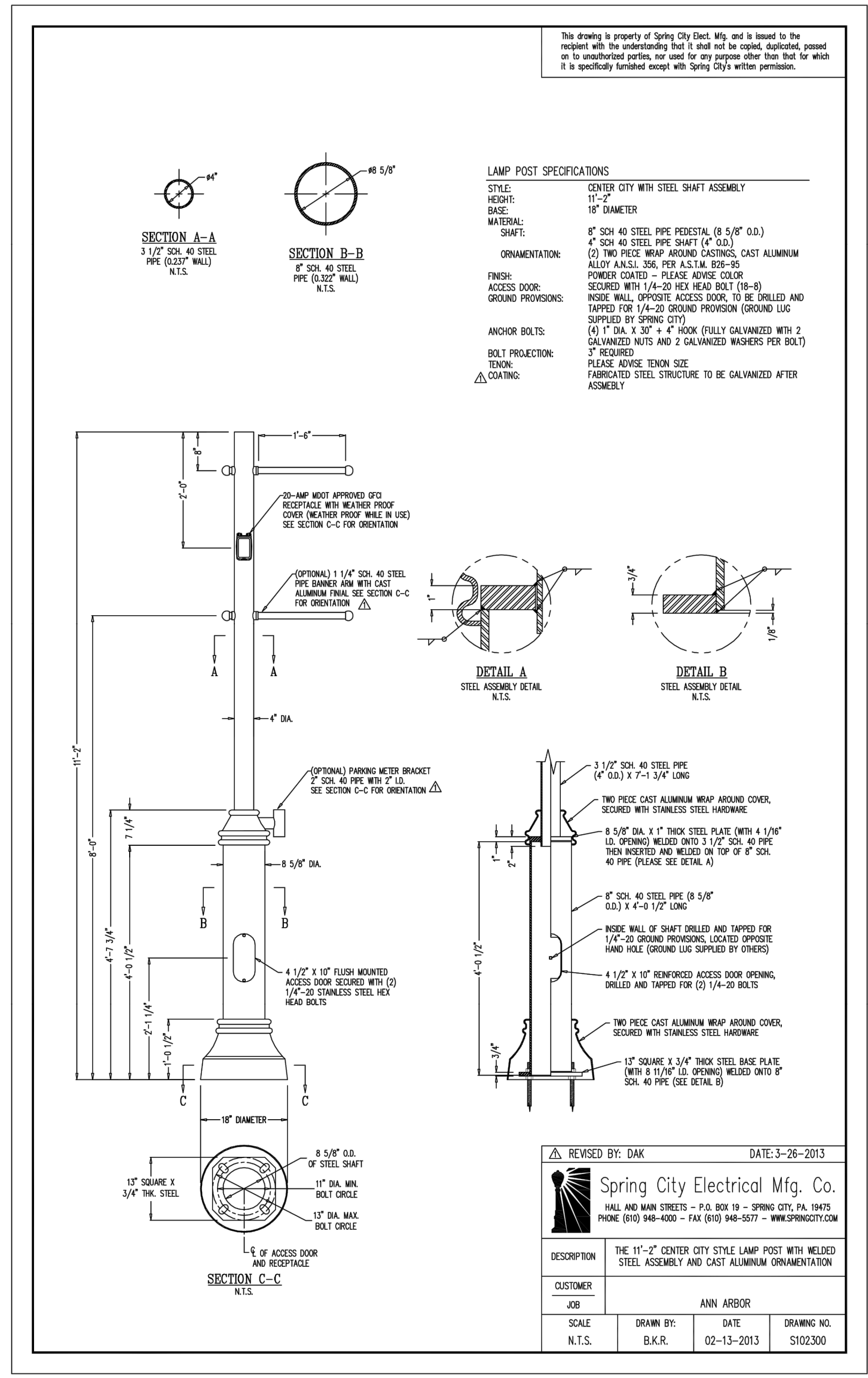


NOTES:
1. CONTRACTOR TO PROVIDE PREFABRICATED ANCHOR BOLT BUILD-UP
2. THE CITY WILL INSPECT THE EXCAVATED HOLE AND THE ANCHOR BOLT BUILD-UP AND PROVIDE WRITTEN APPROVAL PRIOR TO THE PLACEMENT OF CONCRETE
3. NO WATER IS TO BE IN HOLE AT TIME OF CONCRETE PLACEMENT
4. CONCRETE SHALL BE VIBRATED DURING PLACEMENT
5. CONTRACTOR WILL PROVIDE NECESSARY CONDUIT FOR ENTRY. PAID FOR AT THE CONTRACT UNIT PRICE FOR 2" CONDUIT
6. COPPER CLAD GROUND ROD (IF REQUIRED) TO BE 5/8" DIA. x 8'-0" CONDUIT TO EXTEND 1'-2" ABOVE BASE. CABLES TO EXTEND 6" OUTSIDE OF HANDHOLE
7. GROUND CABLE SHALL BE #6 SOFT BARE COPPER WIRE WELDED TO GROUND ROD WITH 24" SLACK ABOVE FOUNDATION TOP; THE NEUTRAL AT THE POLE IS TO BE CONNECTED TO THIS GROUND CABLE.

LIGHT POLE FOUNDATION

2 LIGHT POLE

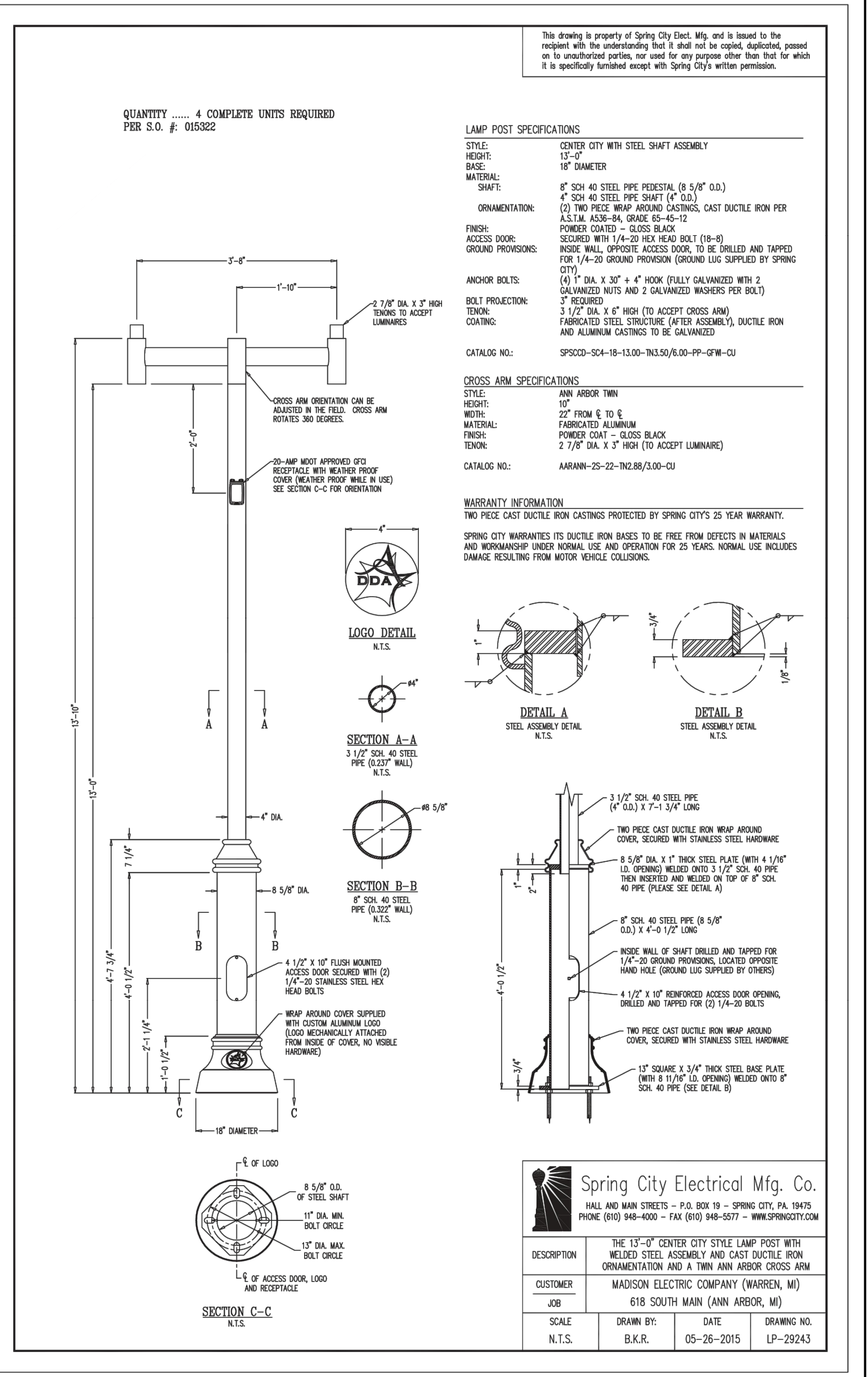
SCALE: NTS



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LAMP POST SPECIFICATIONS
STYLE: CENTER CITY WITH STEEL SHAFT ASSEMBLY
SIZE: 15'-2"
SHAFT: 10" DIAMETER
MATERIAL: 4" SCH 40 STEEL PIPE (RESECTION (B 5/8" O.D.)
4" SCH 40 STEEL PIPE SHAFT (C 1/2")
FINISH: POWDER COATED - PLEASE ADVISE COLOR
ACCESS DOOR: ACCESS DOOR TO BE DRILLED AND TAPPED FOR 1/4"-20 GROUND PROVISION (GROUND LUG SUPPLIED BY SPRING CITY)
ANCHOR BOLTS: (4) 1" DIA. x 3/4" x 4" HOOK FULLY GALVANIZED WITH 2 GALVANIZED NUTS AND 2 GALVANIZED WASHERS PER BOLT
TENON: PLEASE ADVISE TENON SIZE
COATING: FABRICATED STEEL STRUCTURE TO BE GALVANIZED AFTER ASSEMBLY

REVISION	DATE	DESCRIPTION
1	02-13-2013	ISSUED FOR BIDDING
2	02-18-2022	REVISED TO REFLECT CHANGES TO THE 15'-2" CENTER CITY STEEL LAMP POST WITH WELDED STEEL ASSEMBLY AND CAST ALUMINUM ORNAMENTATION



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CROSS ARM SPECIFICATIONS
STYLE: NEW ARBOR TWIN
SIZE: 22" FROM E TO E
MATERIAL: FABRICATED ALUMINUM
FINISH: POWDER COAT - GLOSS BLACK
TENON: 2 7/8" DIA. x 5" HIGH (TO ACCEPT LUMINAIRE)

REVISION	DATE	DESCRIPTION
1	05-26-2015	ISSUED FOR BIDDING
2	05-26-2015	REVISED TO REFLECT CHANGES TO THE 15'-2" CENTER CITY STEEL LAMP POST WITH WELDED STEEL ASSEMBLY AND CAST DUCTILE IRON ORNAMENTATION AND A TWIN NEW ARBOR CROSS ARM

STATE ST STREETSCAPE - CITY OF ANN ARBOR

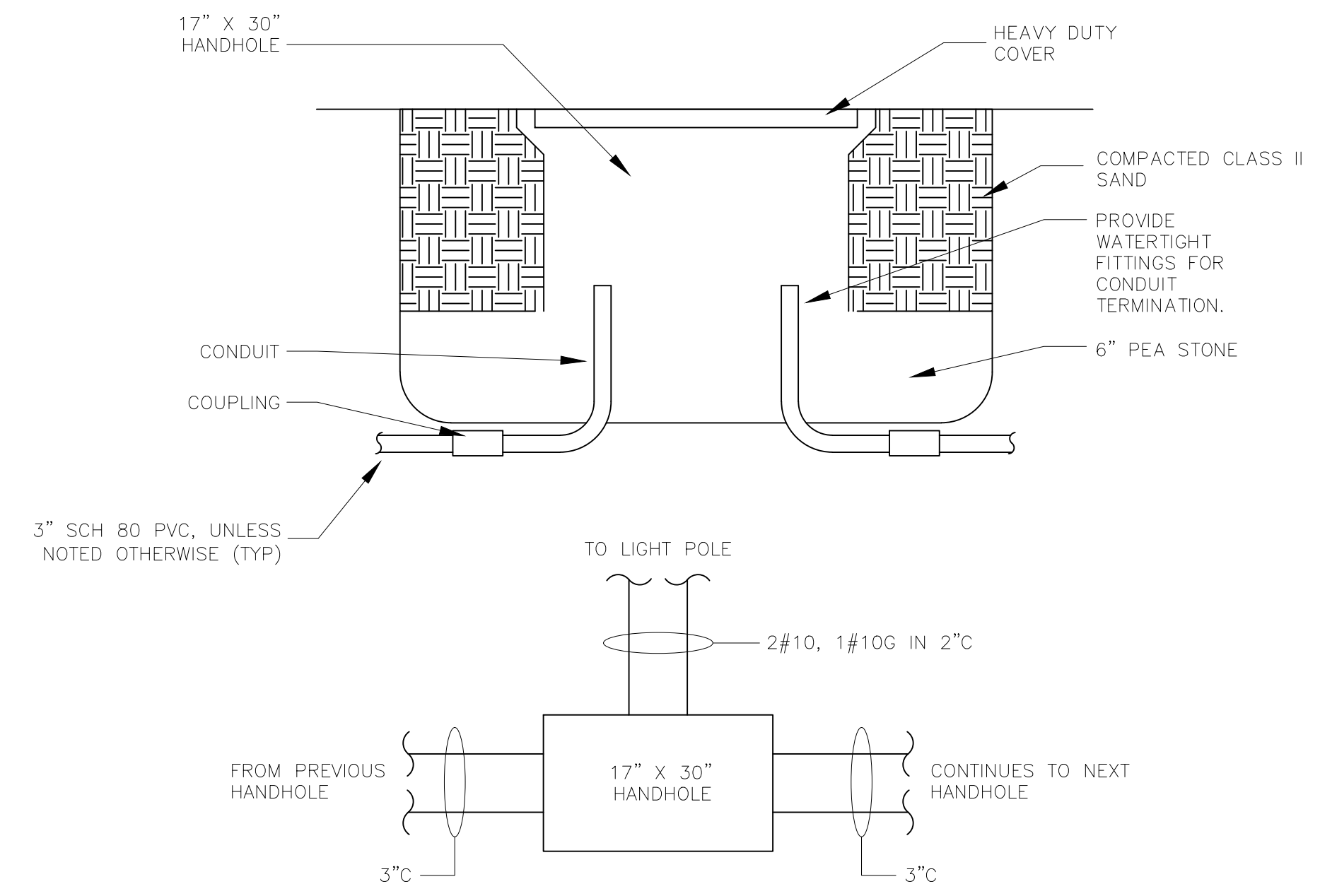
ELECTRICAL DETAILS 1

SCALE	INCH
DRAWING NO.	E2.1
SHEET NO.	OF

SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
			100% BID SET		02-18-2022		

APPROVED BY _____

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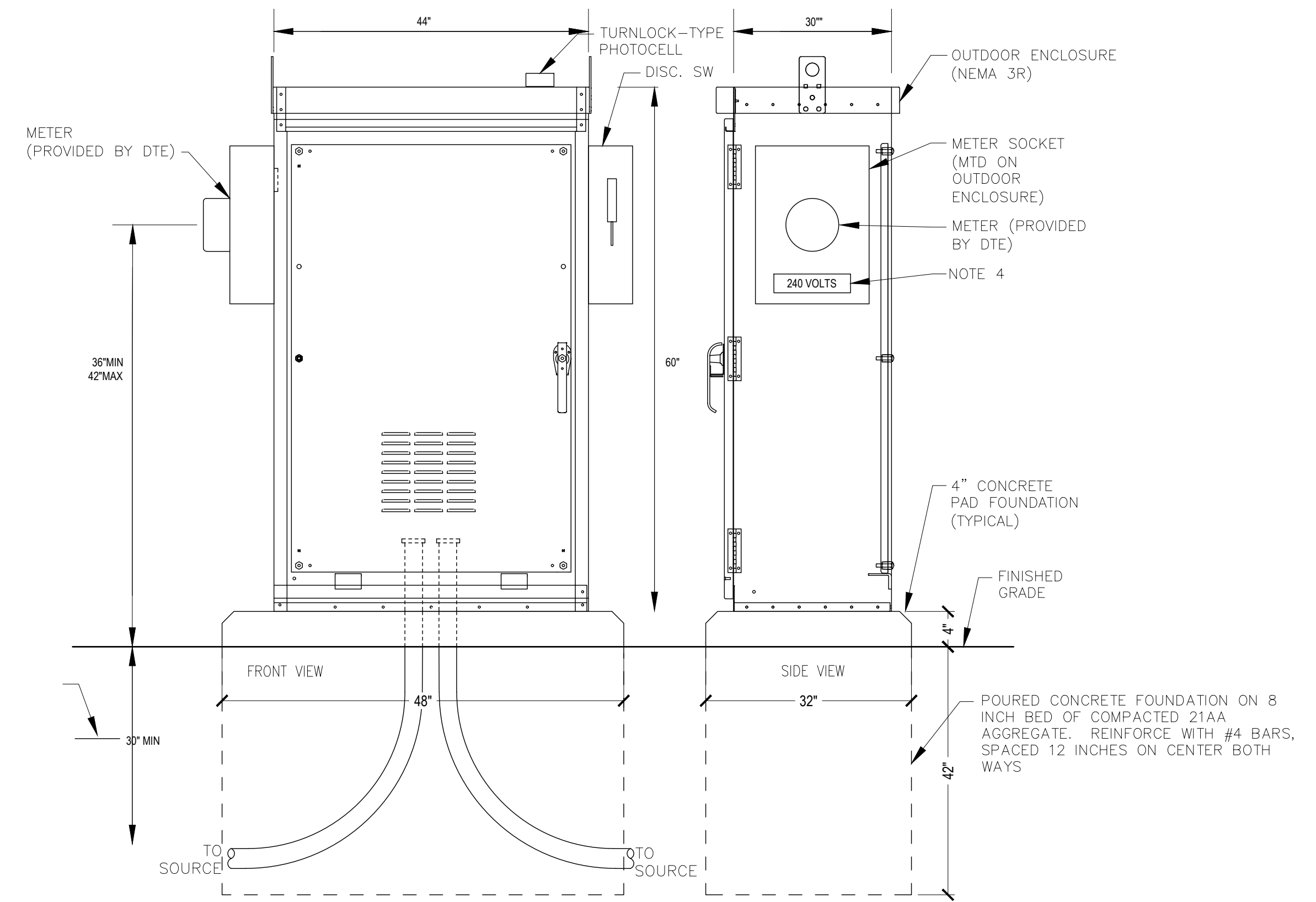


TYPICAL HANDHOLE DETAIL

SCALE: NONE

NOTES

1. UPSIZE HANDHOLE, AS REQUIRED, BASED ON QUANTITY AND SIZE OF WIRE AND CONDUIT PRESENT. INDICATED SIZE SHALL BE THE MINIMUM.
2. REFER TO PLANS FOR LOCATION OF HANDHOLES.

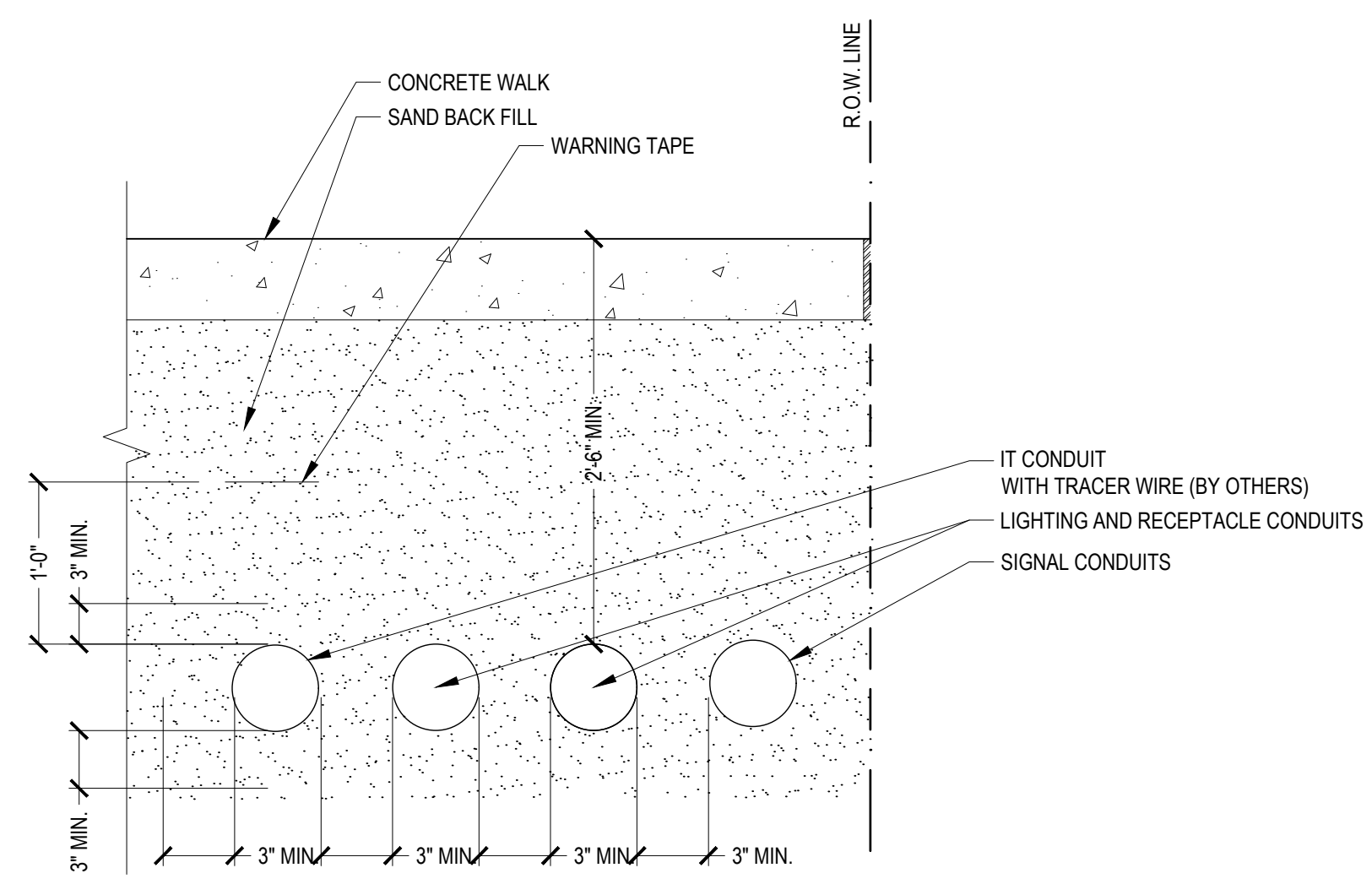


OUTDOOR ENCLOSURE DETAIL

SCALE: NONE

NOTES

1. ALL WORK TO BE COMPLETED BY CONTRACTOR, UNLESS OTHERWISE NOTED. THE NEW SERVICE INSTALLATION SHALL COMPLY WITH DTE ENERGY REQUIREMENTS. CONTACT DTE ENERGY FOR REQUIREMENTS AND APPROVAL FOR THE PROPOSED INSTALLATION PRIOR TO CONSTRUCTION. COORDINATE EXACT SERVICE LOCATION WITH SERVICE PLANNER. NOTIFY ARCHITECT OF CONFIRMED SERVICE LOCATION PRIOR TO CONSTRUCTION.
2. PROVIDE ENCLOSURE WITH MOUNTING RACKS AND HARDWARE, AS REQUIRED FOR MOUNTING INTERNAL EQUIPMENT (PANELBOARDS, RACEWAYS, CONTROLLERS). PROVIDE GRAY FINISH. PROVIDE NON-CORROSIVE HARDWARE.
3. ALL CONDUIT PENETRATIONS SHALL BE SEALED WEATHERTIGHT.
4. EXPOSED CONDUIT AND UNDERGROUND BENDS SHALL BE RIGID METALLIC CONDUIT (RMC). UNDERGROUND CONDUIT TO SOURCE SHALL BE PVC SCHEDULE 80.
5. NO CONDUITS SHALL BE MOUNTED TO THE EXTERIOR OF THE ENCLOSURE, UNLESS APPROVED BY THE CITY OF ANN ARBOR.
6. LABEL METER SOCKET AS "240 VOLTS" USING PERMANENT NAMPLATE AFFIXED TO ENCLOSURE. METER SOCKET SHALL BE FACTORY PAINTED BLACK TO MATCH LIGHT POLE FINISH. PROVIDE ANY CODE REQUIRED WARNING SIGNAGE INSIDE ENCLOSURE.
7. PROVIDE WARNING TAPE CONTINUOUS 12" ABOVE UNDERGROUND SERVICE LATERAL.
8. MANUFACTURERS: HOFFMAN, EAGLE SIGNAL, OR ANN ARBOR DDA APPROVED EQUIVALENT.
9. REFER TO RISER DIAGRAM, THIS SHEETS, FOR ADDITIONAL INFORMATION.

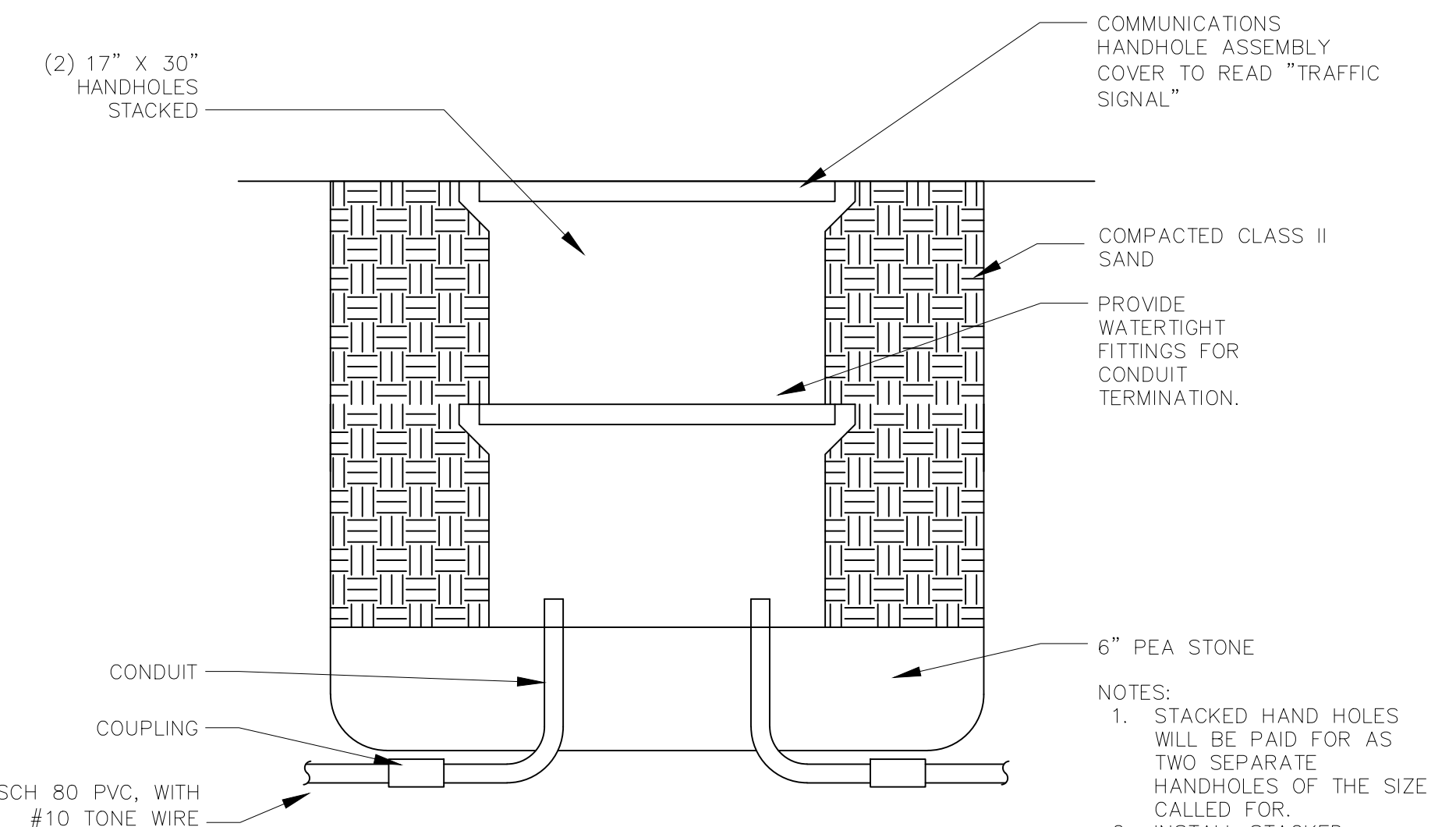


TYPICAL UNDERGROUND CONDUIT DETAIL

SCALE: NONE

NOTES

1. REFER TO PLANS FOR CONDUIT TYPE AND PLACEMENT



STACKED HANDHOLE ASSEMBLY

SCALE: NONE

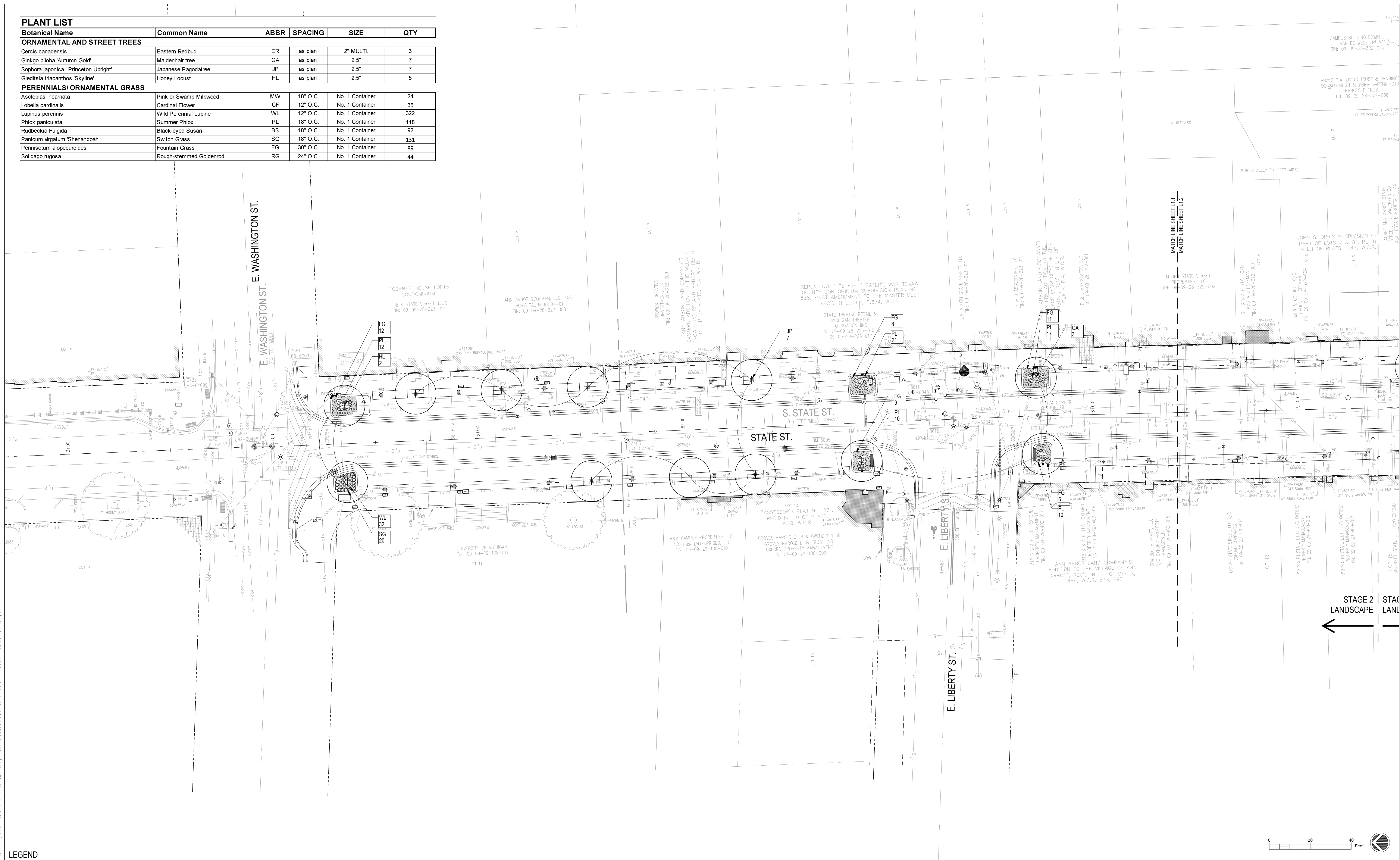
NOTES

1. STACKED HAND HOLES WILL BE PAID FOR AS TWO SEPARATE HANDHOLES OF THE SIZE CALLED FOR.
2. INSTALL STACKED HANDHOLES WHERE DIRECT BY ENGINEER.

LEGEND

							STATE ST STREETScape - CITY OF ANN ARBOR	
							ELECTRICAL DETAILS 2	
							SCALE	INCH
							DRAWING NO. E2.2	
							SHEET NO.	OF
SEE ABOVE							APPROVED BY _____	
BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY		
			100% BID SET	02-18-2022				

PLANT LIST					
Botanical Name	Common Name	ABBR	SPACING	SIZE	QTY
ORNAMENTAL AND STREET TREES					
<i>Cercis canadensis</i>	Eastern Redbud	ER	as plan	2" MULTI.	3
<i>Ginkgo biloba</i> 'Autumn Gold'	Maidenhair tree	GA	as plan	2.5"	7
<i>Sophora japonica</i> 'Princeton Upright'	Japanese Pagodatree	JP	as plan	2.5"	7
<i>Gleditsia triacanthos</i> 'Skyline'	Honey Locust	HL	as plan	2.5"	5
PERENNIALS/ORNAMENTAL GRASS					
<i>Asclepias incarnata</i>	Pink or Swamp Milkweed	MW	18" O.C.	No. 1 Container	24
<i>Lobelia cardinalis</i>	Cardinal Flower	CF	12" O.C.	No. 1 Container	35
<i>Lupinus perennis</i>	Wild Perennial Lupine	WL	12" O.C.	No. 1 Container	322
<i>Phlox paniculata</i>	Summer Phlox	PL	18" O.C.	No. 1 Container	118
<i>Rudbeckia Fulgida</i>	Black-eyed Susan	BS	18" O.C.	No. 1 Container	92
<i>Panicum virgatum</i> 'Shenandoah'	Switch Grass	SG	18" O.C.	No. 1 Container	131
<i>Pennisetum alopecuroides</i>	Fountain Grass	FG	30" O.C.	No. 1 Container	89
<i>Solidago rugosa</i>	Rough-stemmed Goldenrod	RG	24" O.C.	No. 1 Container	44



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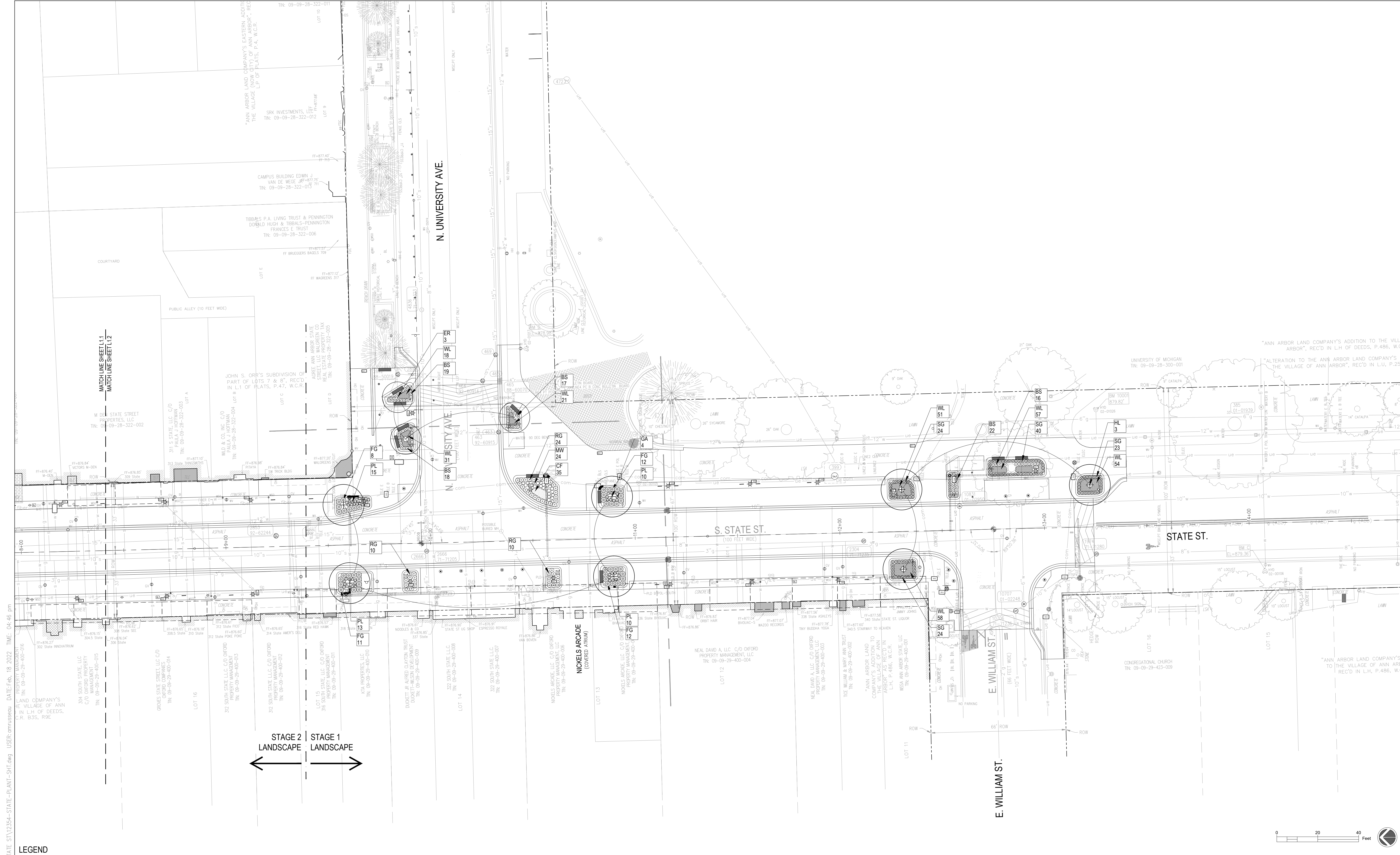
SEE ABOVE	BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
			100%	BID SET	02-18-2022		

STATE ST STREETScape - CITY OF ANN ARBOR

PLANTING PLAN 1

SCALE	INCH
DRAWING NO.	L1.1
SHEET NO.	OF

APPROVED BY _____



LEGEND

SEE ABOVE
BENCH MARK SURVEY BOOK

REV. NO.	DESCRIPTION	DATE	DR.BY	CH.BY
100% BID SET		02-18-2022		

STATE ST STREETScape - CITY OF ANN ARBOR

PLANTING PLAN 2

SCALE	INCH
DRAWING NO.	L1.2
SHEET NO.	OF

APPROVED BY _____

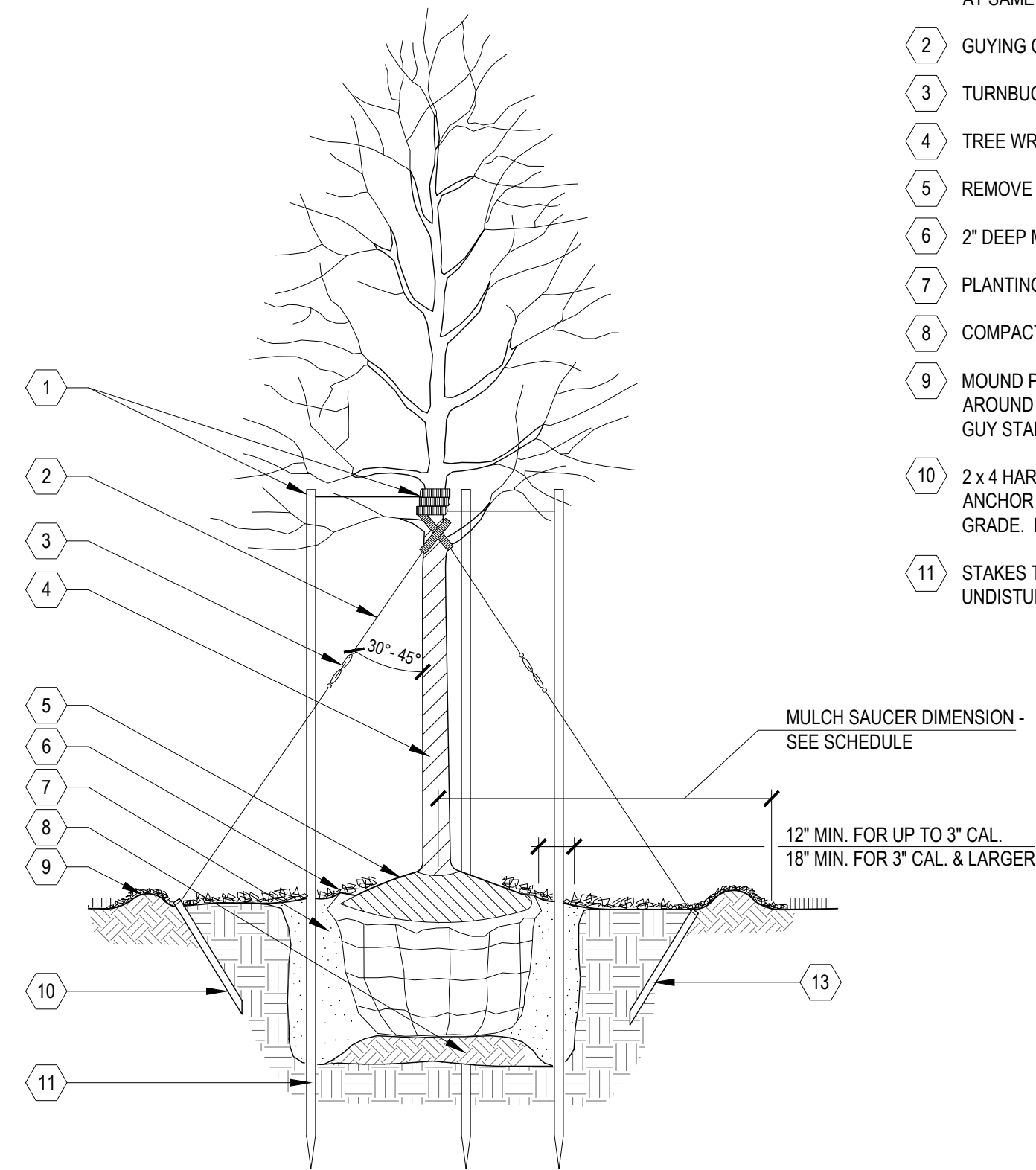
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 USER: cmrossenau DATE: Feb. 18, 2022 TIME: 04:46 pm
 PROJECT: UNIVERSITY MANAGEMENT
 TIN: 09-09-29-400-016
 LAND COMPANY'S ADDITION TO THE VILLAGE OF ANN ARBOR, REC'D IN L.H. OF DEEDS, P.486, W.C.R.
 B3S, R9E
 346 SOUTH STATE, LLC C/O OXFORD PROPERTY MANAGEMENT
 TIN: 09-09-29-400-015
 GROVES STATE STREET, LLC C/O OXFORD COMPANIES
 TIN: 09-09-29-400-014
 LOT 16
 312 SOUTH STATE, LLC C/O OXFORD PROPERTY MANAGEMENT
 TIN: 09-09-29-400-013
 312 SOUTH STATE, LLC C/O OXFORD PROPERTY MANAGEMENT
 TIN: 09-09-29-400-012
 LOT 15
 316 SOUTH STATE, LLC C/O OXFORD PROPERTY MANAGEMENT
 TIN: 09-09-29-400-011
 KVA PROPERTIES, LLC
 TIN: 09-09-29-400-010
 DUCKETT DR. NASSAU CLAYTON TRUST
 DUCKETT-ANSON DEVELOPMENT
 TIN: 09-09-29-400-009
 LOT 14
 322 SOUTH STATE, LLC
 TIN: 09-09-29-400-008
 322 SOUTH STATE, LLC
 TIN: 09-09-29-400-007
 NICKELS ARCADE (COVERED AIRWAY)
 LOT 13
 NICKELS ARCADE, LLC C/O OXFORD PROPERTY MANAGEMENT, LLC
 TIN: 09-09-29-400-006
 NEAL DAVID A. LLC C/O OXFORD PROPERTY MANAGEMENT, LLC
 TIN: 09-09-29-400-004
 LOT 12
 NEAL DAVID A. LLC C/O OXFORD PROPERTY MANAGEMENT, LLC
 TIN: 09-09-29-400-003
 TICE WILLIAM & MARY ANN TRUST
 TIN: 09-09-29-400-002
 "ANN ARBOR LAND COMPANY'S ADDITION TO THE VILLAGE OF ANN ARBOR", REC'D IN L.H. OF DEEDS, P.486, W.C.R.
 YESA ANN ARBOR STATE, LLC
 TIN: 09-09-29-400-001
 LOT 11
 CONGREGATIONAL CHURCH
 TIN: 09-09-29-423-009
 LOT 10
 LOT 9
 LOT 8
 LOT 7
 LOT 6
 LOT 5
 LOT 4
 LOT 3
 LOT 2
 LOT 1
 "ANN ARBOR LAND COMPANY'S ADDITION TO THE VILLAGE OF ANN ARBOR", REC'D IN L.H. OF DEEDS, P.486, W.C.R.
 "ALTERATION TO THE ANN ARBOR LAND COMPANY'S ADDITION TO THE VILLAGE OF ANN ARBOR", REC'D IN L.H. OF DEEDS, P.486, W.C.R.
 UNIVERSITY OF MICHIGAN
 TIN: 09-09-28-300-001
 "ANN ARBOR LAND COMPANY'S ADDITION TO THE VILLAGE OF ANN ARBOR", REC'D IN L.H. OF DEEDS, P.486, W.C.R.
 "ALTERATION TO THE ANN ARBOR LAND COMPANY'S ADDITION TO THE VILLAGE OF ANN ARBOR", REC'D IN L.H. OF DEEDS, P.486, W.C.R.
 SRK INVESTMENTS, L.P.
 TIN: 09-09-28-322-012
 "ANN ARBOR LAND COMPANY'S ADDITION TO THE VILLAGE OF ANN ARBOR", REC'D IN L.H. OF DEEDS, P.486, W.C.R.
 CAMPUS BUILDING EDWIN J. VAN DE WEGE
 TIN: 09-09-28-322-013
 TIBBALS P.A. LIVING TRUST & PENNINGTON DONALD HUGH & TIBBALS-PENNINGTON FRANCIS F. TRUST
 TIN: 09-09-28-322-006
 JOHN S. ORR'S SUBDIVISION OF PART OF LOTS 7 & 8, REC'D IN L.I. OF PLATS, P.47, W.C.R.
 WLD & CO. INC. C/O PAULA J. HOFFMAN
 TIN: 09-09-28-322-004
 311 S STATE, LLC C/O PAULA J. HOFFMAN
 TIN: 09-09-28-322-003
 M DE STATE STREET PROPERTIES, LLC
 TIN: 09-09-28-322-002
 COURT YARD
 PUBLIC ALLEY (10 FEET WIDE)
 N. UNIVERSITY AVE
 S. STATE ST. (100 FEET WIDE)
 STATE ST.
 E. WILLIAM ST. (66 FEET WIDE)
 MATCH LINE SHEET L11
 MATCH LINE SHEET L12
 STAGE 2 LANDSCAPE
 STAGE 1 LANDSCAPE

SCHEDULES

SIZE	STAKING / GUYING	MULCH SAUCER DIMENSION (NON-BED AREAS)
• 2" CAL. & SMALLER	• DOUBLE STAKE	• 4' DIA.
• BETWEEN 2.5' & 3.5' CAL.	• TRIPLE STAKE	• 5' DIA.
• 4" CAL. - 6" CAL.	• TRIPLE GUY	• MIN. 8' DIA. - EXTEND OUTSIDE DIAMETER TO INCLUDE GUYING STAKES

NOTES:
NEWER CUT CENTRAL LEADERS PRUNE ONLY TO REMOVE DEAD OR DAMAGED BRANCHES.

- 1 TOP OF STAKES AND GUYS TO BE SET ABOVE FIRST BRANCHES. SET STAKES VERTICAL AND AT SAME HEIGHT
- 2 GUYING CABLE, 3 GUYS PER TREE
- 3 TURNBUCKLE
- 4 TREE WRAP
- 5 REMOVE BURLAP FROM TOP 1/3 OF ROOT BALL
- 6 2" DEEP MULCH. DO NOT COVER ROOT FLARE
- 7 PLANTING BACKFILL
- 8 COMPACTED PLANTING BACKFILL
- 9 MOUND PLANTING BACKFILL TO FORM SAUCER AROUND PLANT PIT. SET SAUCER OUTSIDE OF GUY STAKES
- 10 2 x 4 HARDWOOD OR #3/4" METAL FENCE POST. ANCHOR STAKE TO BE DRIVEN BELOW FINISH GRADE. MIN. LENGTH TO BE 24"
- 11 STAKES TO EXTEND 12" BELOW TREE PIT IN UNDISTURBED GROUND



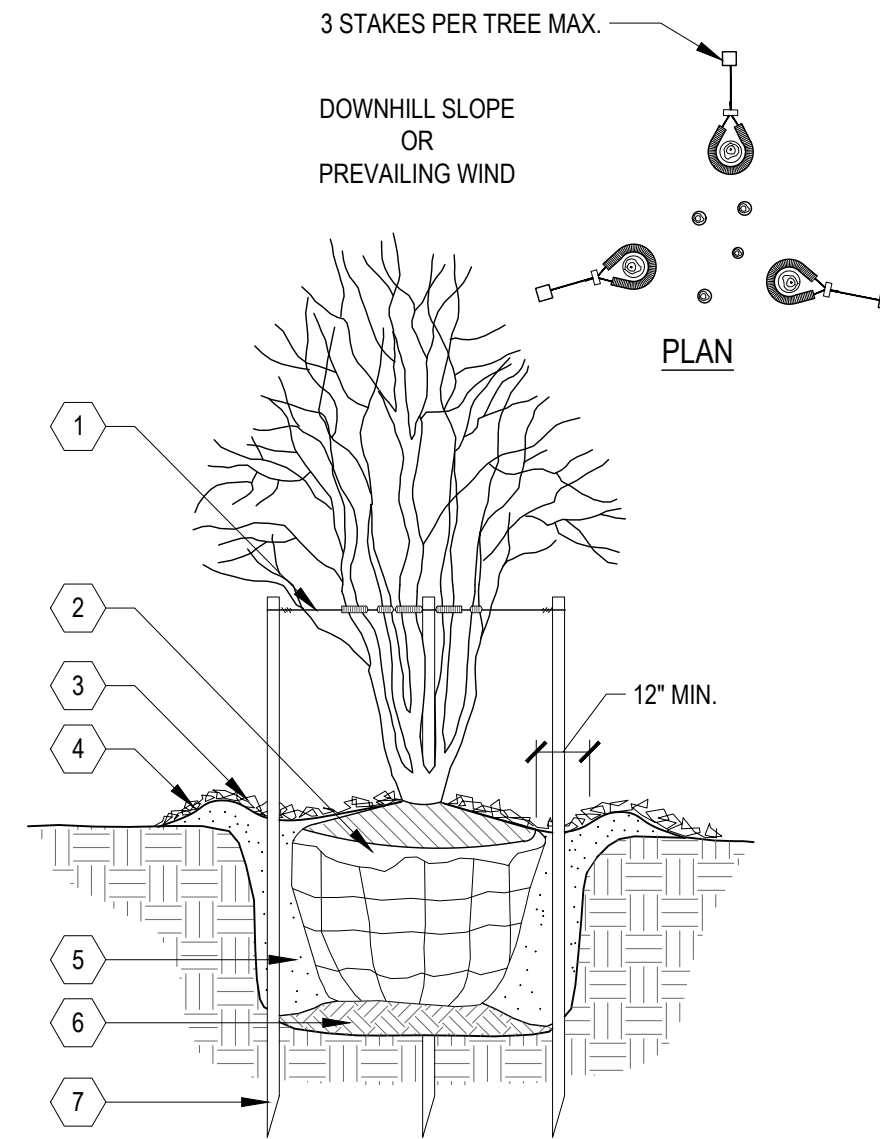
1 SHADE TREE PLANTING

SCALE: NTS

SCHEDULES

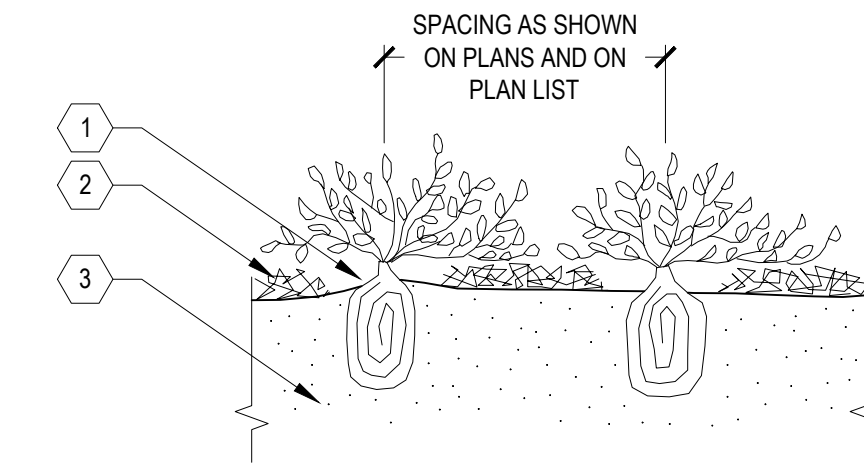
SIZE	STAKING / GUYING	MULCH SAUCER DIMENSION (NON-BED AREAS)
• UP TO 6' TALL	• DOUBLE STAKE	• 4' DIA.
• 6' - 12' TALL	• TRIPLE STAKE	• 5' DIA.
• > 12' TALL	• TRIPLE STAKE	• 5' DIA.

NOTES:
STAKE 3 LARGEST STEMS, IF TREE HAS MORE THAN 3 LEADERS



2 FLOWERING TREE PLANTING - MULT-STEM

SCALE: NTS



NOTE:
CONTAINER PLANTS: REMOVE POTS AND SEPERATE POT BOUND ROOTS AS SPECIFIED.

- 1 SET ROOT FLARE (COLLAR) AT FINISHED GRADE
- 2 1" DEEP MULCH. DO NOT COVER ROOT FLARE
- 3 PLANT BED MIX

3 GROUNDCOVER / PERENNIAL / ORNAMENTAL GRASS PLANTING - BED

SCALE: NTS

NOTES:
ALL PLANTING MULCH TO BE SHREDDED NATURAL HARDWOOD BARK, WITH NO ADDED COLORANTS

LEGEND

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STATE ST STREETScape - CITY OF ANN ARBOR						
PLANTING DETAILS						
SCALE	INCH					
	[Scale Bar]					
DRAWING NO.	L5.1					
SHEET NO.	___ OF ___					
SEE ABOVE						
BENCH MARK	SURVEY BOOK	REV. NO.	DESCRIPTION	DATE	DR. BY	CH. BY
			100% BID SET	02-18-2022		
APPROVED BY _____						