

100% CONSTRUCTION DOCUMENTS

ENGINEER'S PROJECT NO. 10525
DATE: 2021-11-05

SHEET INDEX

- C100 TITLE SHEET
- C101 EXISTING SITE CONDITION PLAN
- C201 EROSION CONTROL PLAN
- C301 SELECTIVE SITE DEMOLITION PLAN
- C401 SITE IMPROVEMENT PLAN
- C501 SITE GRADING PLAN
- C502 SITE SECTIONS
- C503 SITE SECTIONS
- C601 UTILITY PLAN
- C602 UTILITY PROFILES
- C701 LANDSCAPE PLAN
- C801 SITE DETAILS
- C901 MAINTENANCE OF TRAFFIC PLAN - PHASE 1
- C902 MAINTENANCE OF TRAFFIC PLAN - PHASE 2

SOUTH WALNUT STREET SIDEWALK IMPROVEMENTS

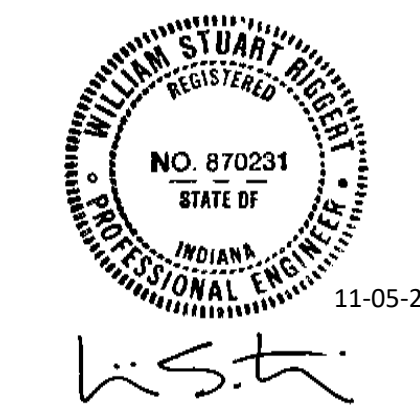
OWNER'S ADDRESS:

City of Bloomington
401 N Morton St
Bloomington, IN 47404

PROJECT ADDRESS:

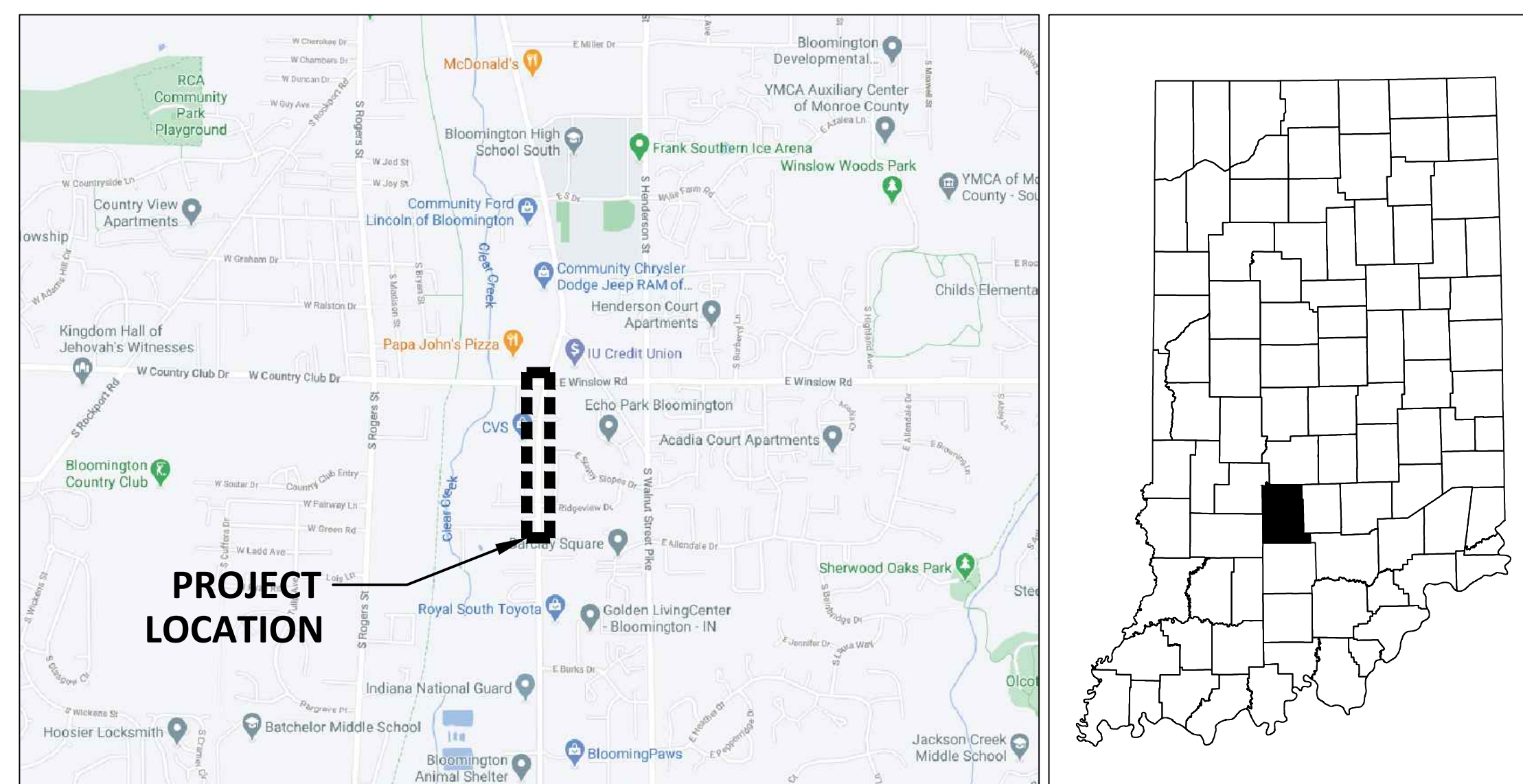
South Walnut Street, between Winslow and Pinewood
Bloomington, IN 47401

STAMPS & APPROVALS:

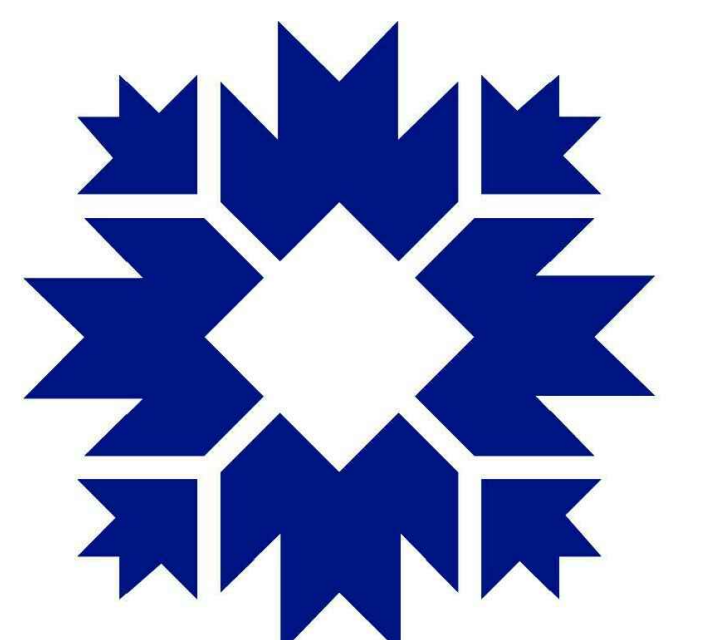
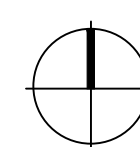


SPECIFICATIONS

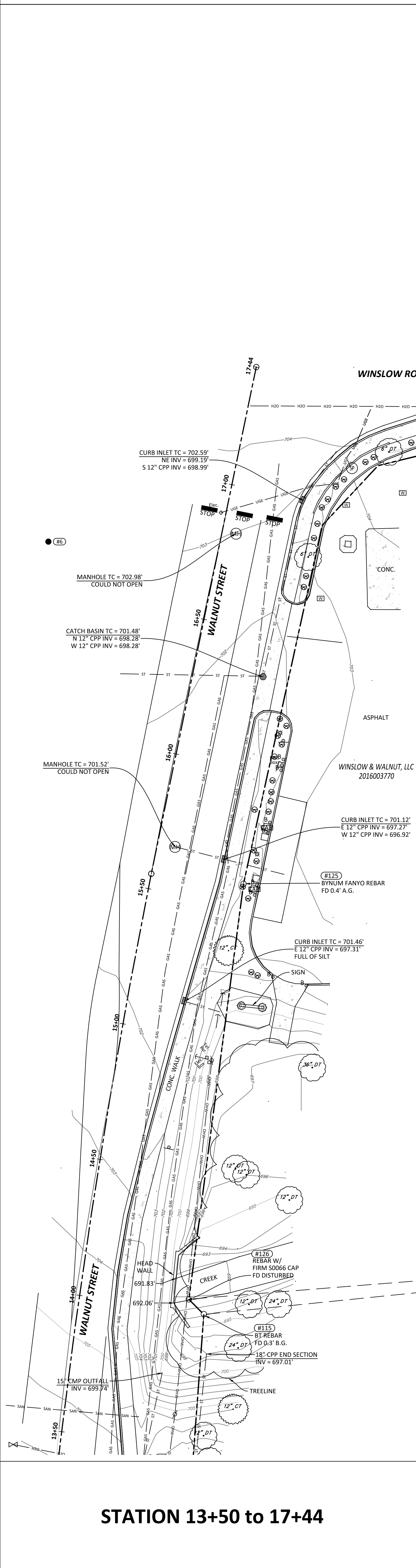
REFER TO: PROJECT MANUAL
CITY OF BLOOMINGTON CONSTRUCTION SPECIFICATIONS
INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS 2020 AND SUPPLEMENTS THERETO



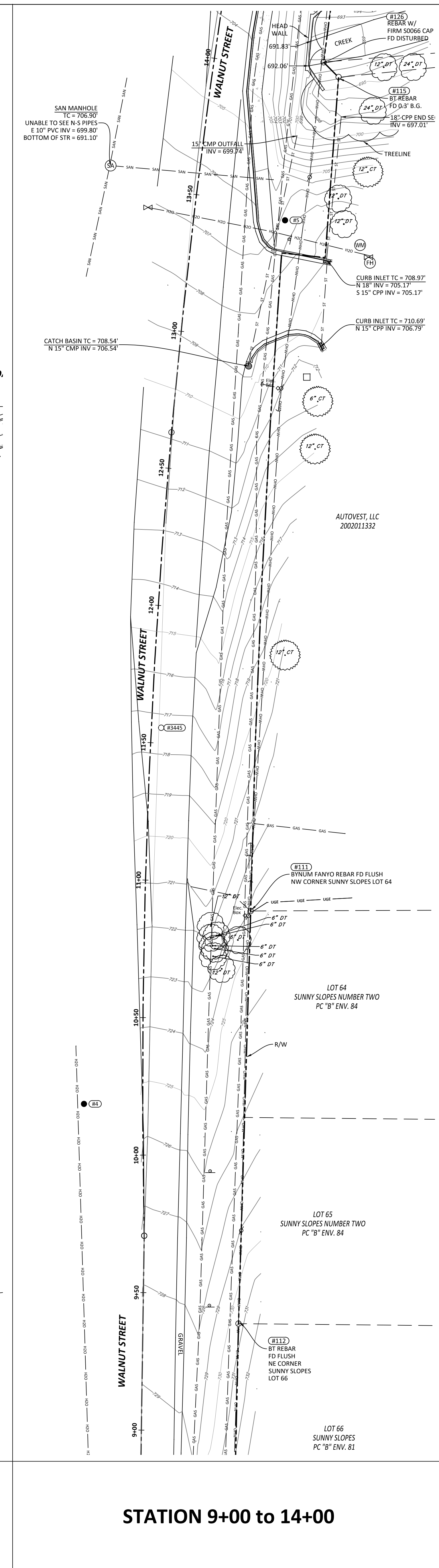
PROJECT LOCATION MAPS
NTS



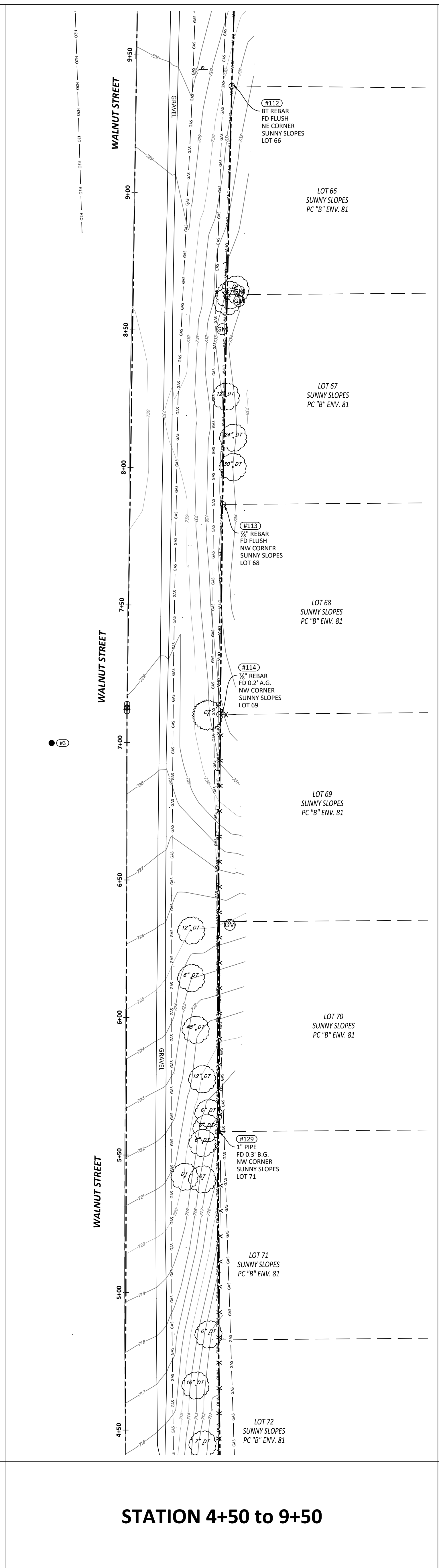
CITY OF BLOOMINGTON



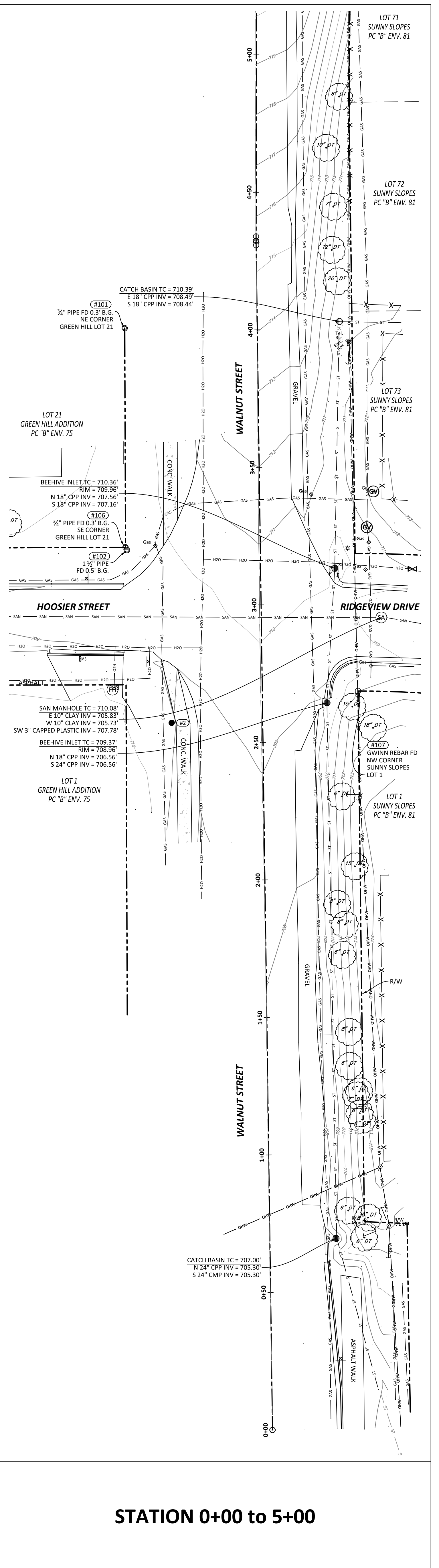
STATION 13+50 to 17+44



STATION 9+00 to 14+00

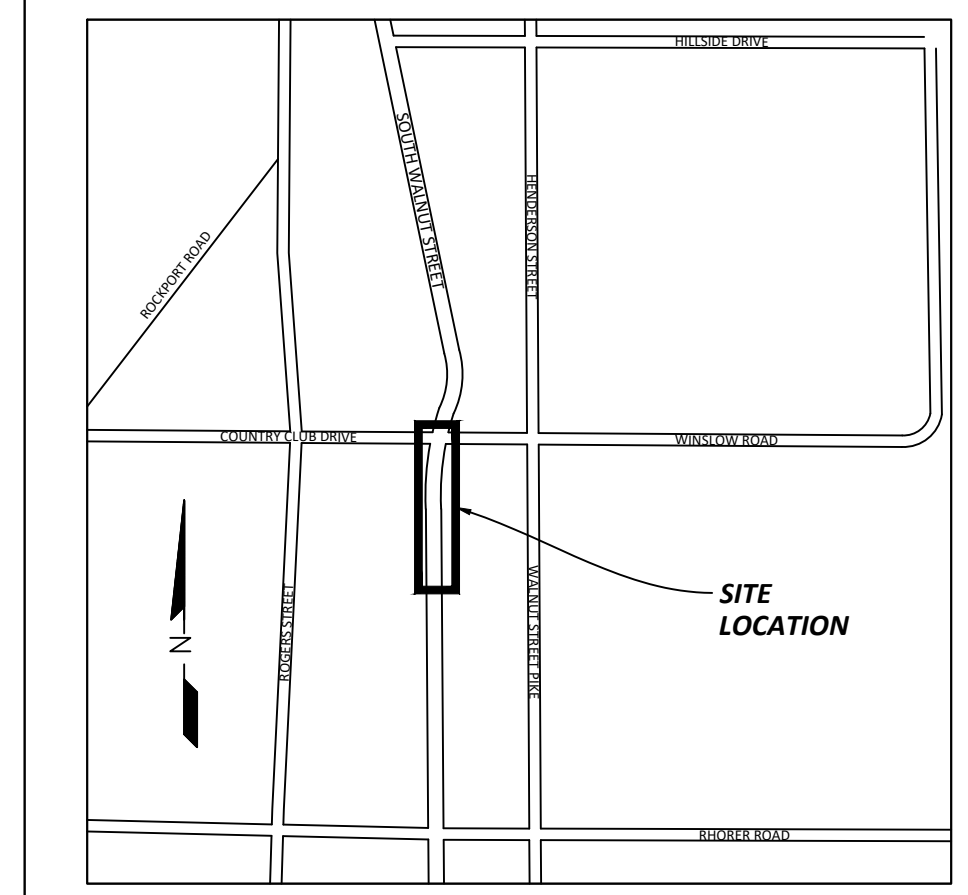


STATION 4+50 to 9+50



STATION 0+00 to 5+00

LOCATION MAP



NOTES

- FIELD WORK PERFORMED DECEMBER 24, 2020 - JANUARY 15, 2021.
- CONTOURS REPRESENT 1-FOOT INTERVALS.
- UTILITIES SHOWN HEREON ARE PER OBSERVED ABOVE GROUND EVIDENCE AND FROM UTILITY MARKINGS PLACED ON THE GROUND BY INDIANA'S MEMBER UTILITIES (SEE TICKETS BELOW). MEMBER UTILITIES DO NOT LOCATE PRIVATE LINES OR FACILITIES. MEMBER UTILITIES DO NOT LOCATE SERVICE LINES NOR ALL UTILITIES WHEN A SURVEY IS THE PURPOSE OF THE TICKET. OVERHEAD UTILITIES ARE IDENTIFIED AS OVERHEAD WITHOUT SPECIAL INVESTIGATION AS TO THE TYPE OR NATURE. STORM AND SANITARY INVERT ELEVATIONS, PIPE SIZES, AND MATERIALS ARE ALL APPROXIMATE BASED ON LIMITED INFORMATION AVAILABLE FROM THE SURFACE. NO STRUCTURES WERE ENTERED TO ACCURATELY MEASURE PIPE SIZES OR TO VERIFY PIPE TYPE AND MATERIAL. STRUCTURE GRATES AND COVERS SHOULD NOT BE ASSUMED TO BE THE CENTER OF THE BELOW GROUND STRUCTURE. ALL UTILITIES INCLUDING LOCATIONS AND SIZES NEED TO BE VERIFIED PRIOR TO CONSTRUCTION EFFORTS.
- THE FOLLOWING ARE THE INDIANA 811 TICKET NUMBERS FOR THIS PROJECT: 2101122468, 2101122490, 2101122503, 2101122598, 2101122604, 2101122616, 2101122641.
- THE FOLLOWING ARE THE MEMBER UTILITIES NOTIFIED BY INDIANA 811:
 A&T DISTRIBUTION
 BLOOMINGTON TRAFFIC DIV.
 BLOOMINGTON UTILITIES
 COMCAST
 DUKE ENERGY
 SMITHVILLE TELEPHONE Co.
 VECTREN
 COMMUNICATIONS
 TRAFFIC LIGHTS
 WATER, SEWER
 CABLE TV
 ELECTRIC
 TELEPHONE
 GAS
- The utilities shown on this survey represent Quality Level B standard of care. The American Society of Civil Engineers (ASCE) has developed an important standard of care guideline, Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data, C/ASCE 38-02. This standard guideline describes four quality levels of utility depiction:
 Quality Level D - Information derived from existing records or oral recollections.
 Quality Level C - Information obtained by surveying and plotting visible above-ground utility features and by using professional judgment in correlating this information to Quality Level D.
 Quality Level B - Information obtained through the application of appropriate surface geophysical methods to determine the existence and approximate horizontal position of subsurface utilities.
 Quality Level A - Precise horizontal and vertical location of utilities obtained by the actual exposure and subsequent measurement of subsurface utilities, usually at a specific point.
 To order a copy of ASCE Standard 38-02, please go to the ASCE Bookstore: <http://www.pubs.asce.org/> or call 1-800-548-2723.
- THIS DRAWING IS NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY, A ROUTE SURVEY, OR A SURVEYOR LOCATION REPORT.

CONTROL POINTS

HORIZONTAL DATUM: Reference Frame NAD 83(2011) Epoch 2010.0000, Indiana State Plane Coordinates West Zone, U.S. Survey Feet.
 VERTICAL DATUM: NAVD83 (Computed using Geoid 12A), U.S. Survey Feet.

POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1414628.5905	3109347.6508	707.35	MAG NAIL, offsite
2	1414960.7756	3109277.6971	709.37	5/8" Rebar w/ Cap
3	1415403.4435	3109281.5364	728.83	5/8" Rebar w/ Cap
4	1415722.2379	3109290.8451	724.90	5/8" Rebar w/ Cap
5	1416043.4889	3109363.9825	707.33	5/8" Rebar w/ Cap
6	1416376.4435	3109326.9424	702.69	5/8" Rebar w/ Cap

LEGEND

- A YARD LIGHT
- LIGHT POLE
- ⊕ SIGNAL POLE
- ⊕ UTILITY POLE
- QUIP WIRE
- ⊕ CATCH BASIN
- ⊕ CURB INLET
- ⊕ ELECTRIC MH
- ⊕ MANHOLE
- ⊕ PHONE MH
- ⊕ SANITARY MH
- ⊕ SIGNAL MH
- ⊕ STEAM MH
- ⊕ STORM MH
- ⊕ WATER MH
- ⊕ ELEC. METER
- ⊕ CLEANOUT
- ⊕ GAS METER
- ⊕ GAS VALVE
- ⊕ WATER VALVE
- ⊕ FIRE HYDRANT
- ⊕ SPR. HOSEBOX
- ⊕ SPRINKLER
- FENCE
- GUARDRAIL
- OVERHEAD WIRES
- UNDER ELEC.
- GAS LINE
- SAN SEWER LINE
- STORM SEWER LINE
- UNDER TELEPHONE
- EXISTING WATER LINE
- CHILLED WATER LINE
- SIGN
- R.O.M. MON.
- MONITORING WELL
- BOLLARD
- BORE HOLE
- DOWNSPROUT
- GATE POST
- POLE
- PARKING METER
- SPIGOT
- T-POST
- WOOD POST
- PARKING SPACES
- ELEC. VAULT
- PHONE VAULT
- STEAM VAULT
- VALVE VAULT
- AC UNIT
- PHONE BOOTH
- BIRD FEEDER
- MAILBOX
- PROP. TANK
- PARKING BLOCK
- ⊕ FD AXEL
- ⊕ FD BRASS DICK
- ⊕ FD COT GIN SPDL
- ⊕ FD CHISELED X
- ⊕ SET CHISELED X
- ⊕ SET DRILL HOLE
- ⊕ SET HARISON MON.
- ⊕ SET HUB/TACK
- ⊕ FD REBAR
- ⊕ SET REBAR
- ⊕ FD MAG NAIL
- ⊕ SET MAG NAIL
- ⊕ SET NAIL
- ⊕ FD PIPE
- ⊕ FD RR SPIKE
- ⊕ SET RR SPIKE
- ⊕ FD REBAR
- ⊕ SET NAIL
- ⊕ RECORDED B&D
- ⊕ MEASURED B&D
- ⊕ CALCULATED B&D
- ⊕ (PROP) PROPORTIONAL DIST.
- ⊕ A.G. ABOVE GROUND
- ⊕ B.G. BELOW GROUND
- ⊕ CONF. TREE
- ⊕ DECID. TREE
- ⊕ SHRUB
- ⊕ PHONE RISER-BOX
- ⊕ TV RISER-BOX
- ⊕ ELEC. RISER-BOX
- ⊕ GAS RISER-BOX



SOUTH WALNUT STREET
 SIDEWALK IMPROVEMENTS
 SOUTH WALNUT STREET
 BLOOMINGTON, INDIANA

BRCJ Project No: 10525

EXISTING SITE
 CONDITION PLAN

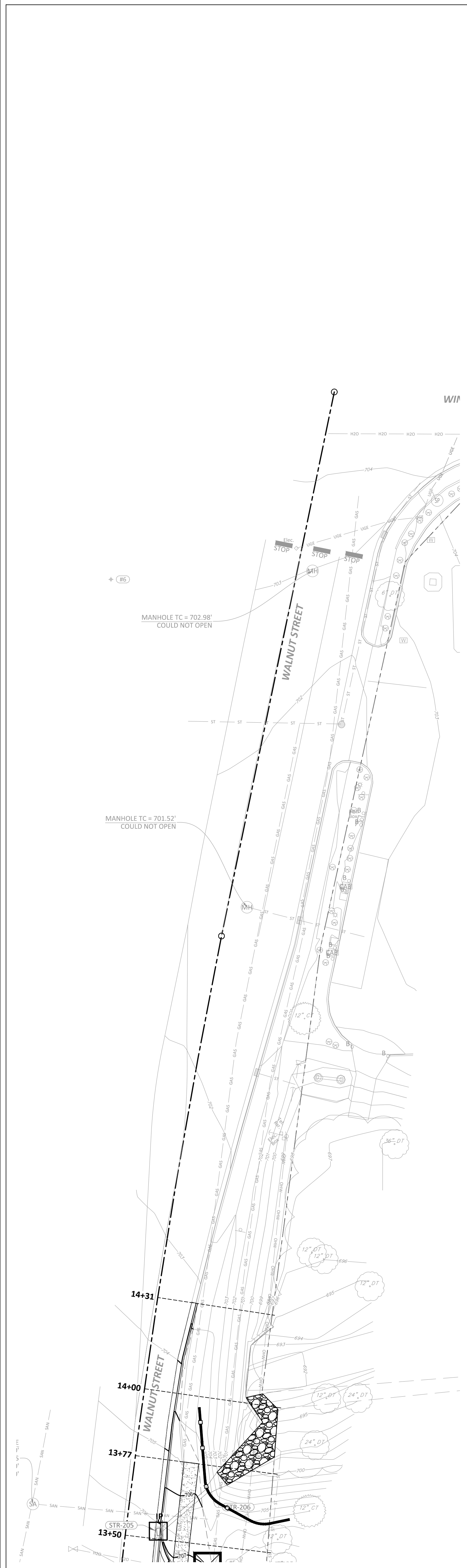


Date: 11-05-2021
 Issue: 100% CONSTRUCTION DOCUMENTS

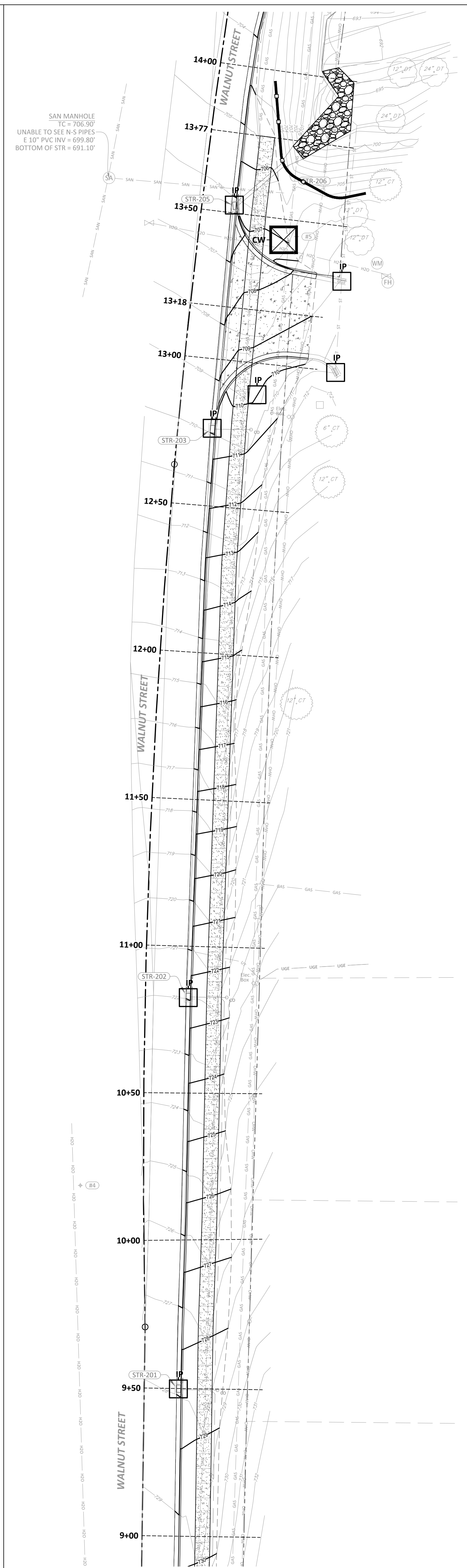
REVISION SCHEDULE

Rev. #	Rev. Description:	Issue Date

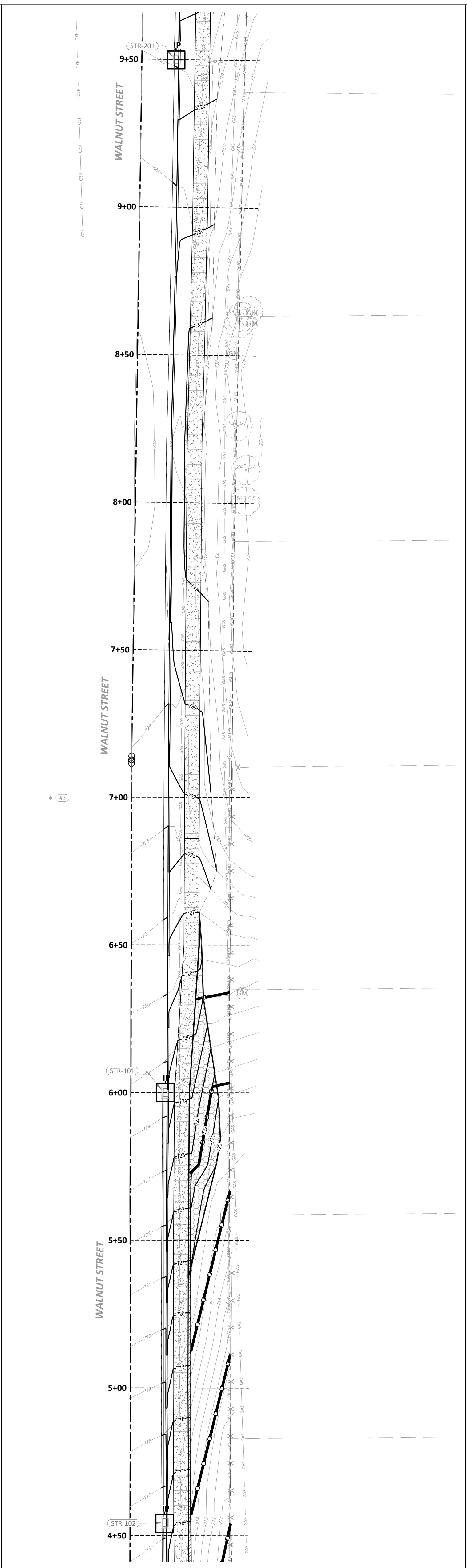
Drawn By: DLN
 Designed By: DLN
 Checked By: WSR



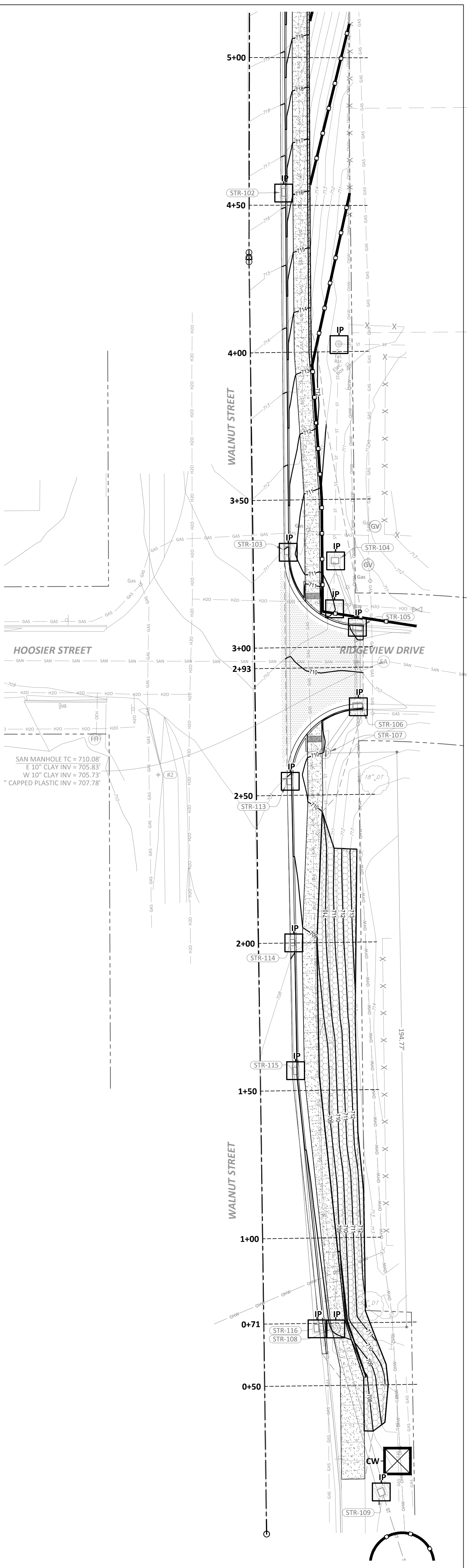
STATION 13+50 to 17+44



STATION 9+00 to 14+00



STATION 4+50 to 9+50



STATION 0+00 to 5+00

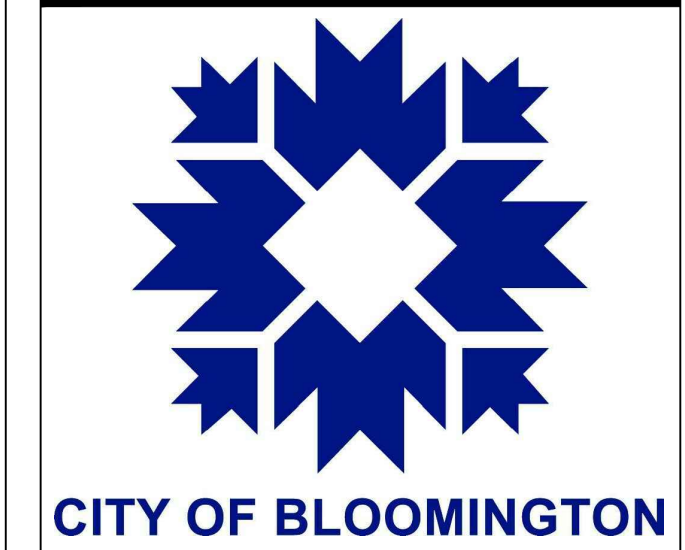
GENERAL NOTES

1. CONTRACTOR SHALL IMPLEMENT THE CONSTRUCTION OF STORMWATER POLLUTION PREVENTION MEASURES NECESSARY PRIOR TO START OF WORK TO ENSURE SEDIMENT DOES NOT LEAVE THE SITE.
2. MODIFY AND MAINTAIN CONSTRUCTION/STORMWATER POLLUTION PREVENTION DEVICES AS NECESSARY TO ENSURE PROPER OPERATION THROUGHOUT PROJECT.
3. STRIPPED TOPSOIL SHALL REMAIN ON SITE. CONTRACTOR TO COORDINATE WITH OWNER REGARDING LOCATION OF STOCKPILE. INSTALL SITE FENCE ON THE DOWNHILL SIDES OF ANY STOCKPILE. TEMPORARY SEED AND MULCH STOCKPILE. DO NOT LEAVE UNCOVERED FOR MORE THAN 10 DAYS.
4. REMOVE ALL CONSTRUCTION/STORMWATER POLLUTION PREVENTION DEVICES UPON COMPLETION OF THE PROJECT OR AS OTHERWISE DIRECTED BY THE ENGINEER.

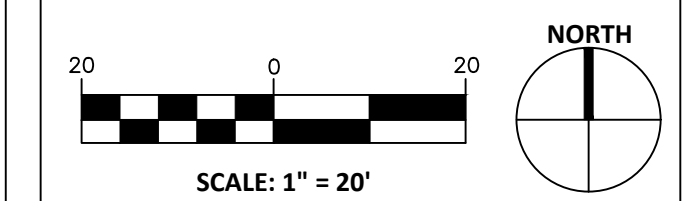
LEGEND

- EXISTING CONTOUR
- PROPOSED CONTOUR
- FILTER SOCK - REFER TO DETAIL SHEET C801
- CW- CONCRETE WASHOUT - REFER TO DETAIL SHEET C801
- IP INLET PROTECTION - REFER TO DETAIL SHEET C801
- LIMITS OF EROSION CONTROL BLANKET - NORTH AMERICAN GREEN S150BN
- LIMITS OF RIPRAP OUTFALL PROTECTION - REFER TO DETAIL SHEET C801

Bledsoe Riggert Cooper James
BRCJ
 LAND SURVEYING • CIVIL ENGINEERING • GIS
 1351 West Tapp Road Bloomington, Indiana 47403
 Phone: 812-336-8277 www.brcjvll.com



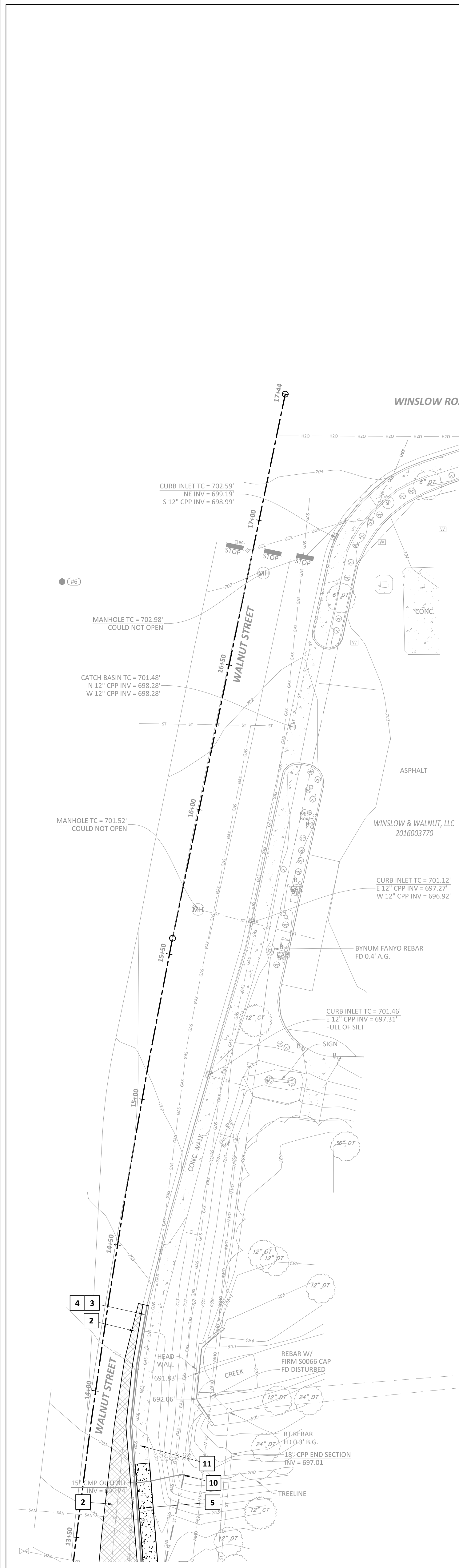
**SOUTH WALNUT STREET
 SIDEWALK IMPROVEMENTS**
 SOUTH WALNUT STREET
 BLOOMINGTON, INDIANA
 BRCJ Project No: 10525
EROSION CONTROL PLAN



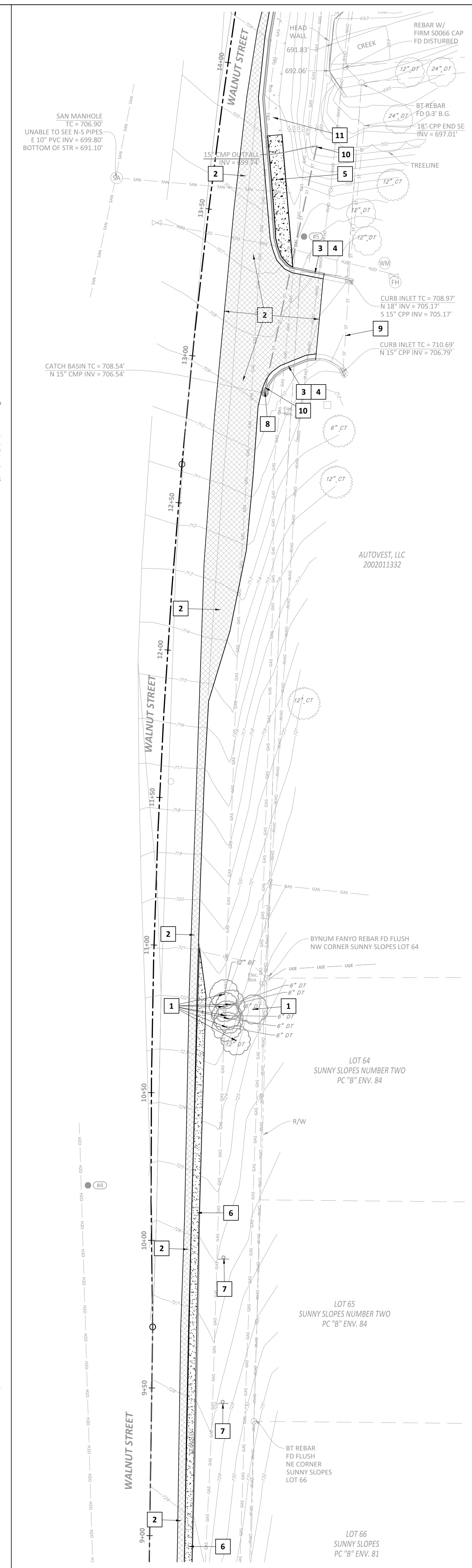
Date: 11-05-2021 Issue: 100% CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
Rev. #	Rev. Description:	Issue Date

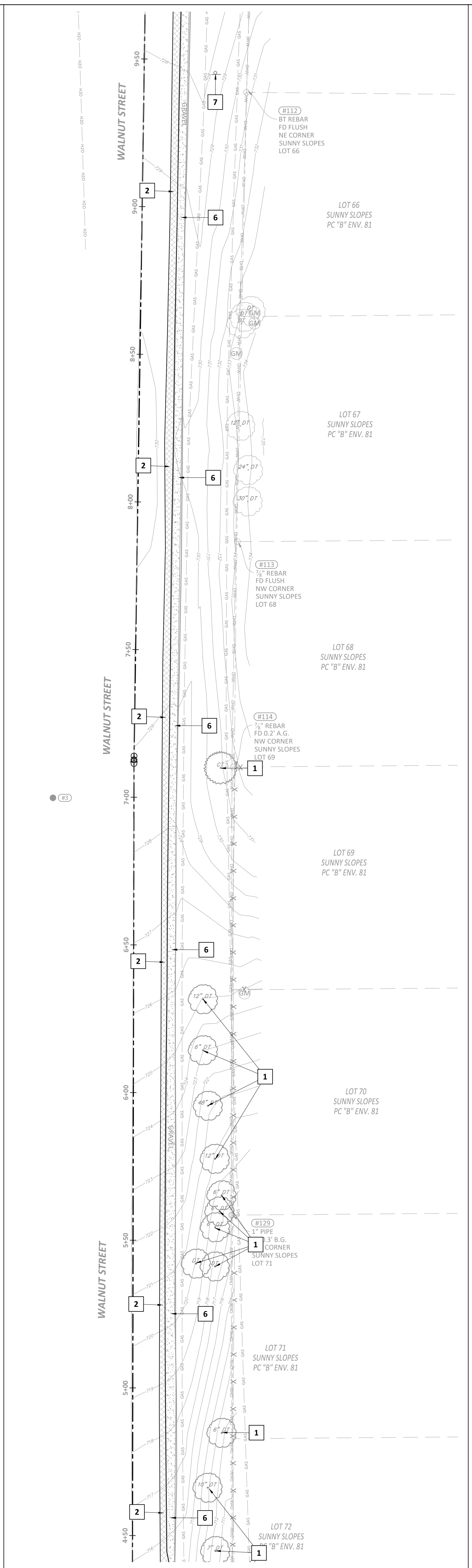
Drawn By: DLN
 Designed By: DLN
 Checked By: WSR



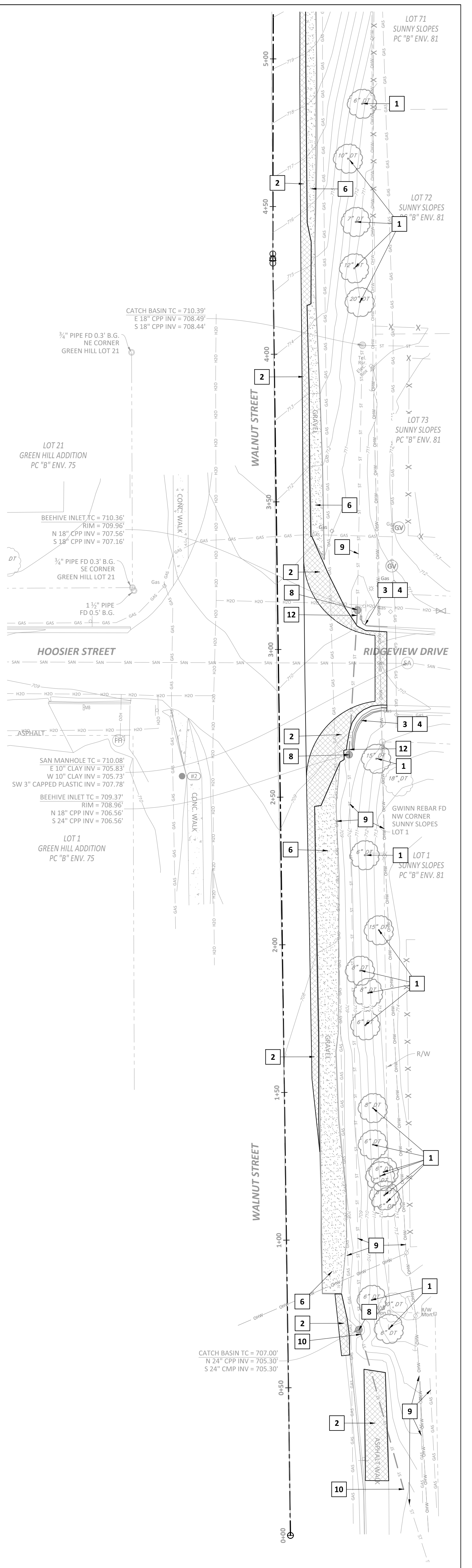
STATION 13+50 to 17+44



STATION 9+00 to 14+00



STATION 4+50 to 9+50



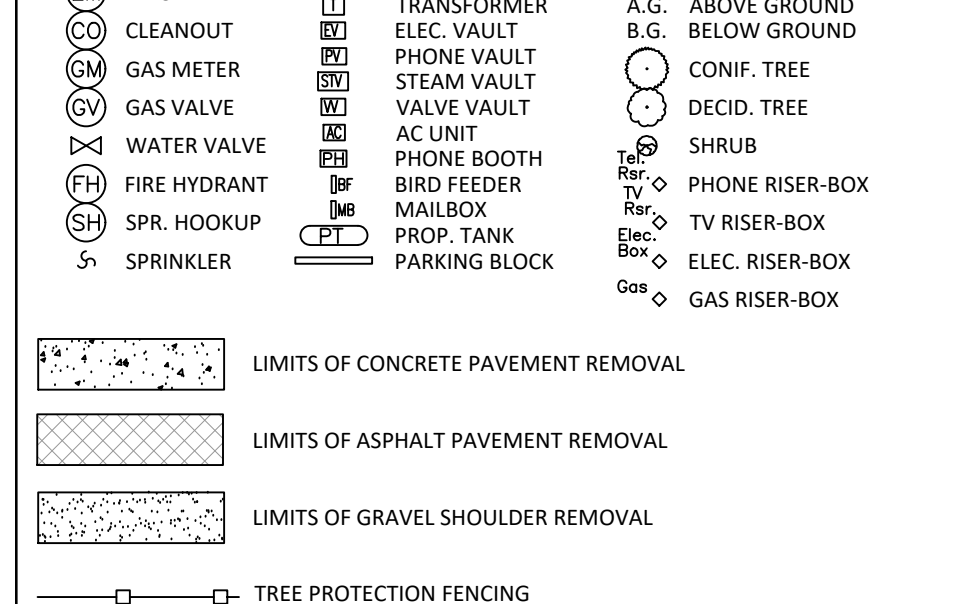
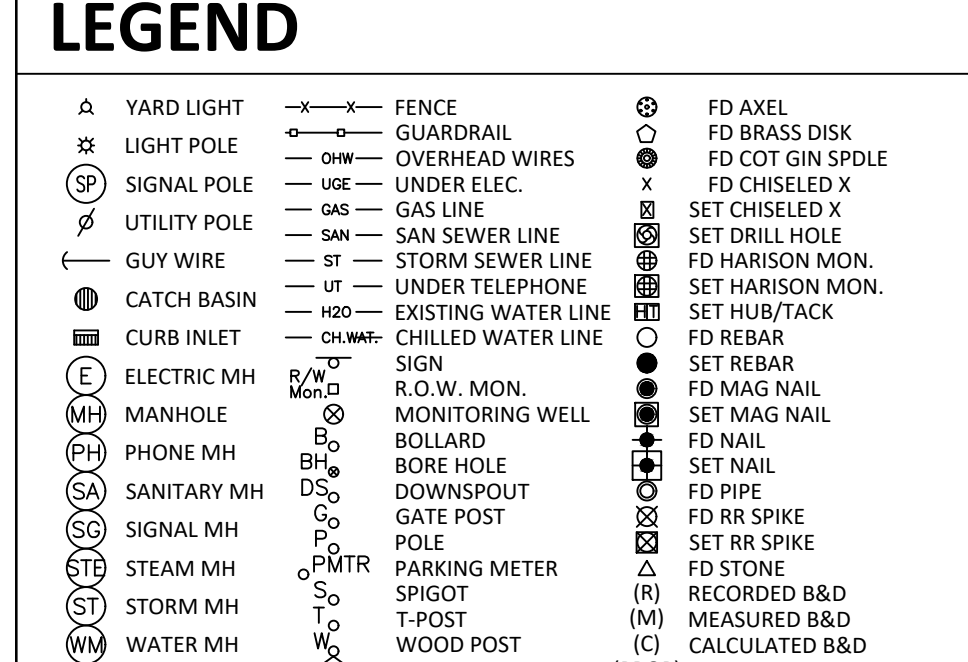
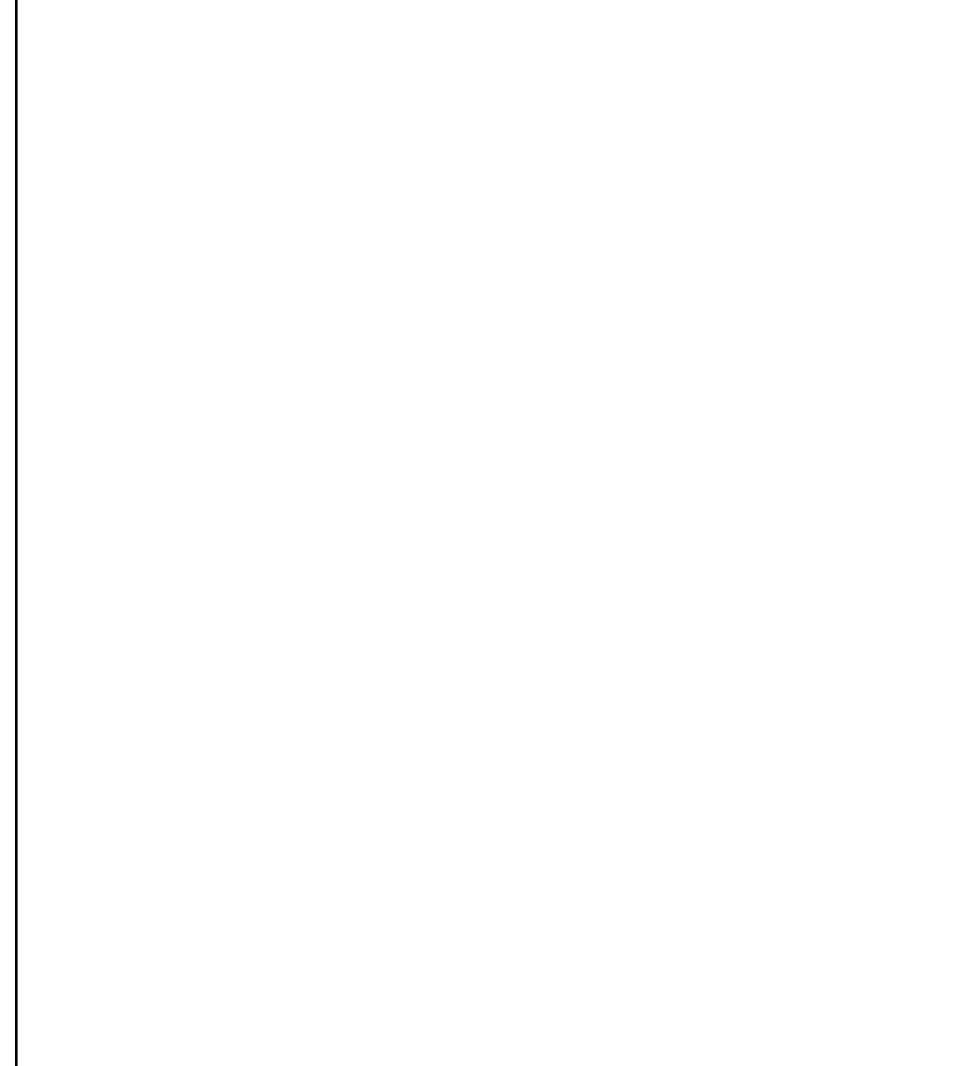
STATION 0+00 to 5+00

GENERAL NOTES

- A. CONTRACTOR IS REQUIRED TO VERIFY FIELD CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF WORK.
- B. THE LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE EXACT UTILITY LOCATIONS WITH THE LOCAL UTILITY COMPANIES PRIOR TO COMMENCING ANY WORK. CONTACT THE INDIANA UNDERGROUND PLANT PROTECTION SERVICES, INC. AT 1-800-352-5544.
- C. CONTRACTOR SHALL IMPLEMENT THE CONSTRUCTION OF STORMWATER POLLUTION PREVENTION MEASURES NECESSARY PRIOR TO START OF WORK TO ENSURE SEDIMENT DOES NOT LEAVE THE SITE.
- D. THIS PLAN SHOWS THE OVERALL AREAS OF DEMOLITION TO ALLOW CONSTRUCTION OF IMPROVEMENTS. THE EXACT AREAS OF DEMOLITION SHALL BE ESTABLISHED AND RESTORED BY THE CONTRACTOR. CONTRACTOR SHALL REMOVE ALL DEMOLISHED MATERIAL FROM THE SITE UNLESS NOTED OTHERWISE.
- E. REMOVE EXISTING STRUCTURES, ASPHALT, CONCRETE, GRAVEL, SOIL, LANDSCAPING AND OTHER MATERIALS AS REQUIRED TO CONSTRUCT DESIGNED IMPROVEMENTS UNLESS NOTED OTHERWISE.
- F. CONTRACTOR SHALL SAW CUT ALONG PAVEMENTS AND OTHER ADJOINING SURFACES TO REMAIN. SIDEWALKS AND CURBS SHALL BE REMOVED TO THE NEXT CLOSEST JOINT BEHIND.
- G. AREAS DISTURBED DURING DEMOLITION, CONSTRUCTION AND GRADING ACTIVITIES SHALL BE RESTORED TO PRE-EXISTING CONDITIONS OR BETTER, UNLESS NOTED OTHERWISE.
- H. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DEMOLITION WORK NECESSARY IN ORDER TO COMPLETE THE PROJECT AS DESIGNED.
- I. CONTRACTOR TO PROTECT ALL EXISTING VEGETATION NOT SCHEDULED FOR REMOVAL.
- J. ANY REQUIRED DRIVEWAY/ACCESS CLOSURES SHALL BE SCHEDULED WITH THE OWNER A MINIMUM OF 7 DAYS IN ADVANCE.
- K. CONTRACTOR SHALL PROVIDE ADVANCE WARNING SIGNAGE, BARRICADES AND FLAGGERS AS REQUIRED WHEN WORKING ALONG, NEAR, OR WITHIN THE NORTH DRIVE. ALL TRAFFIC CONTROLLING AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

PLAN NOTES

1. REMOVE EXISTING TREE.
2. REMOVE EXISTING ASPHALT PAVING. SAW CUT REMAINING PAVEMENT AT EDGE TO CREATE A CLEAN FLUSH EDGE TO INSTALL NEW PAVEMENT AGAINST.
3. REMOVE EXISTING CONCRETE PAVEMENT.
4. REMOVE EXISTING CONCRETE CURB.
5. REMOVE EXISTING SIDEWALK.
6. REMOVE EXISTING GRAVEL SHOULDER.
7. REMOVE EXISTING SIGN.
8. REMOVE EXISTING STORM INLET.
9. EXISTING UTILITY TO REMAIN.
10. REMOVE EXISTING STORM PIPE, OR PUMP FILL WITH REMOVABLE FLOWABLE FILL AND ABANDON-IN-PLACE IF REMOVAL WOULD PUT SUBJECT UTILITIES AT RISK.
11. EXISTING SIDEWALK TO REMAIN.
12. PUMP EXISTING STORM PIPE FILL WITH REMOVABLE FLOWABLE FILL AND ABANDON-IN-PLACE.



REVISION SCHEDULE

Rev. #	Rev. Description:	Issue Date

Date: 11-05-2021
Issue: 100% CONSTRUCTION DOCUMENTS

Drawn By: DLN
Designed By: DLN
Checked By: WSR

**SOUTH WALNUT STREET
SIDEWALK IMPROVEMENTS**
SOUTH WALNUT STREET
BLOOMINGTON, INDIANA

BRCJ Project No: 10525

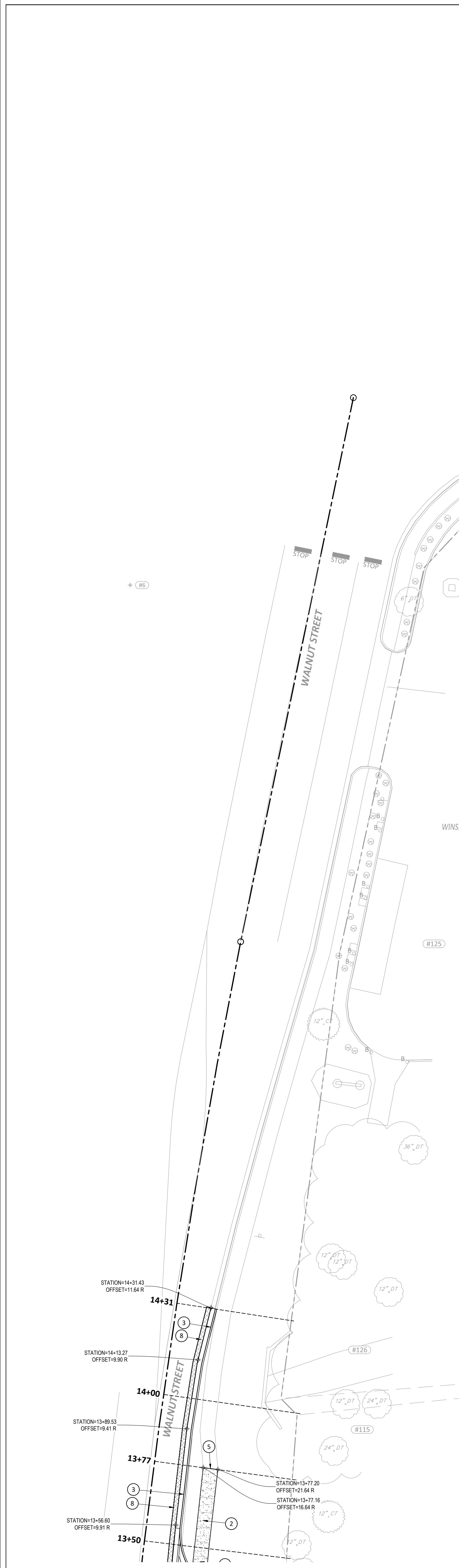
**SELECTIVE SITE
DEMOLITION PLAN**

Date: 11-05-2021 Issue: 100% CONSTRUCTION DOCUMENTS

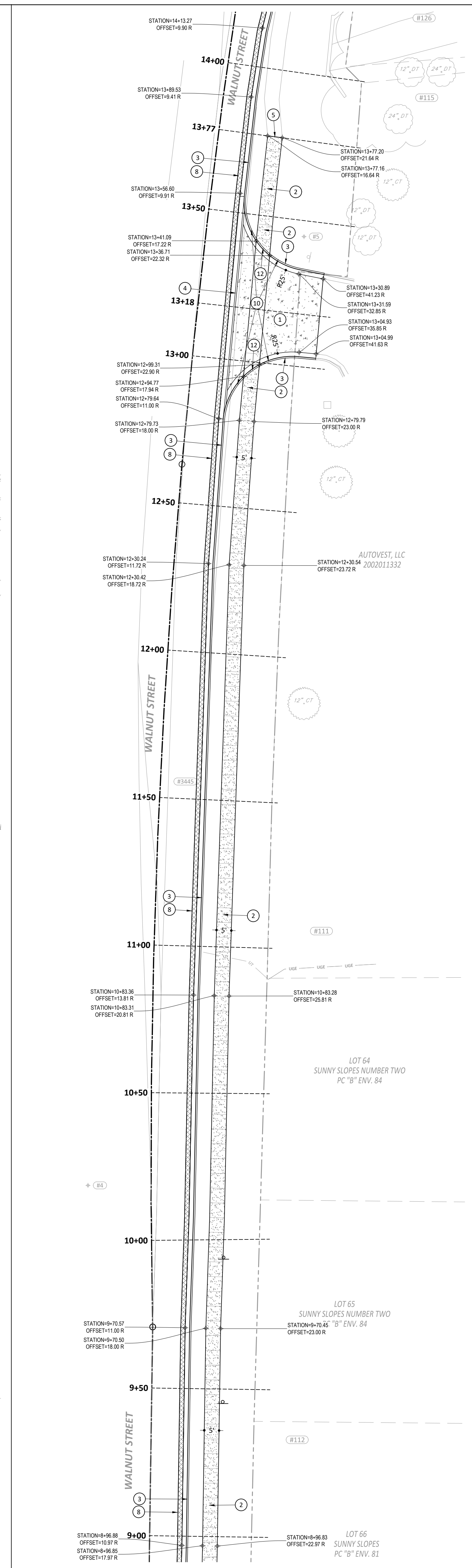
Rev. #	Rev. Description:	Issue Date

Drawn By: DLN
Designed By: DLN
Checked By: WSR

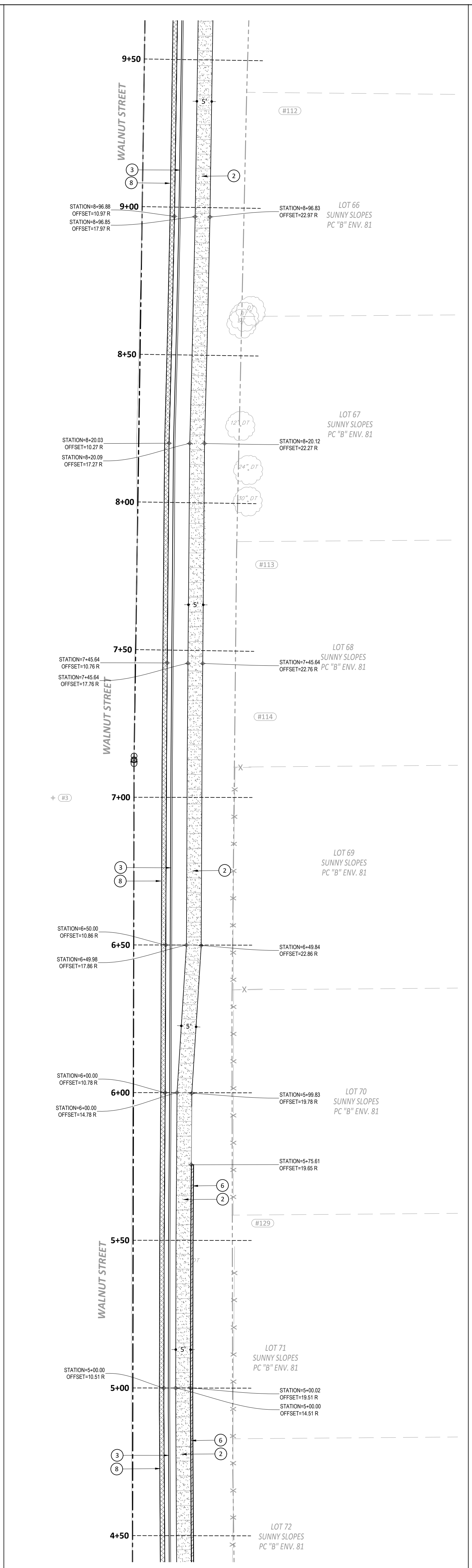
C301



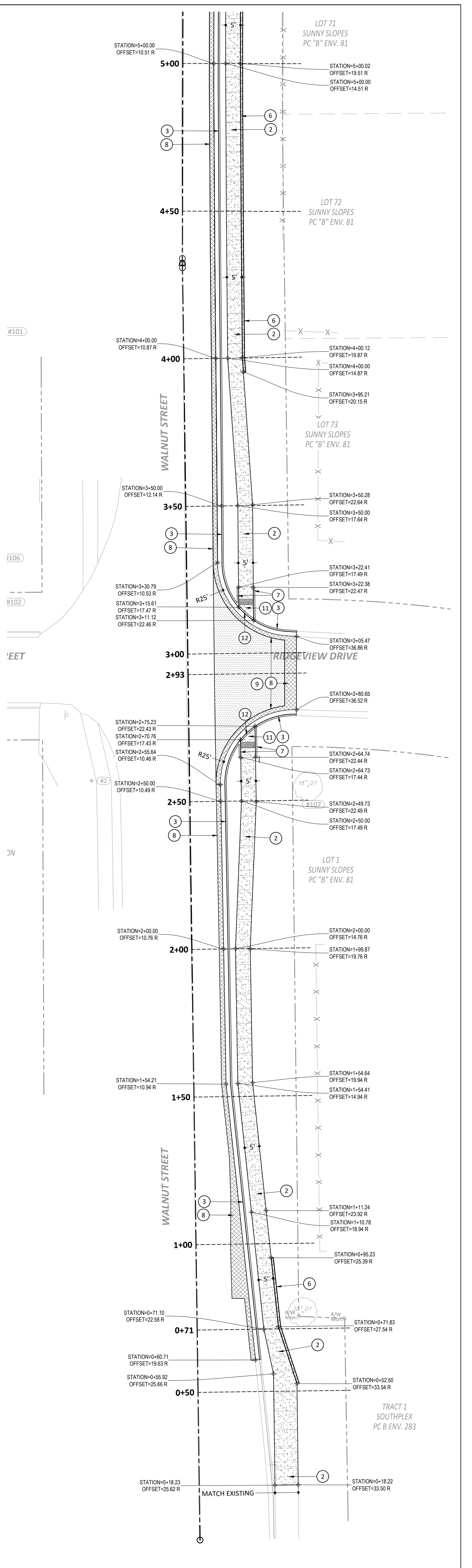
STATION 13+50 to 17+44



STATION 9+00 to 14+00



STATION 4+50 to 9+50



STATION 0+00 to 5+00

GENERAL NOTES

- A. ALL DIMENSIONS ARE TO FACE OF CURB, POINT OF TANGENCY, EDGE OF PAVEMENT, EDGE OF WALK, FACE OF RAILROAD OR FENCELINE, UNLESS OTHERWISE NOTED. CURB RETURN DIMENSIONS TO FACE OF CURB. COORDINATE DIMENSIONS WITH ARCHITECTURAL. CONTRACTOR SHALL NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- B. CONTRACTOR IS REQUIRED TO VERIFY FIELD CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- C. ALL DISTURBED AREAS SHALL RECEIVE 6" OF TOP SOIL, SEED AND MULCH OR BE IMPROVED AS NOTED OTHERWISE.
- D. SIGNAGE AND PAVEMENT MARKINGS SHALL COMPLY WITH THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- E. ALL STREET CUTS FOR UTILITIES AND OTHER IMPROVEMENTS SHALL BE REPAIRED TO MATCH EXISTING PAVEMENT SECTION OR BETTER.
- F. CONTRACTOR SHALL NOT SET EQUIPMENT DIRECTLY ABOVE 8" HIGH PRESSURE GAS MAIN, OR WALK EQUIPMENT UNDER WALK ABOVE EXISTING GAS MAIN. CONTRACTOR SHALL USE PROTECTIVE MATTING IF PLACEMENT OR MOVEMENT OF HEAVY EQUIPMENT ABOVE GAS LINE IS UNAVOIDABLE. CROSS EQUIPMENT OVER GAS MAIN AT RIGHT ANGLES.
- G. CONTRACTOR SHALL NOT USE VIBRATORY COMPACTION EQUIPMENT WITHIN 10' OF HIGH PRESSURE GAS MAIN. COMPACTION OF SUBGRADE AND AGGREGATE BASE MATERIALS OVER GAS MAIN MUST BE ACHIEVED BY ROLLING AND TAMPING ONLY.

PLAN NOTES

1. CONCRETE PAVEMENT, HEAVY DUTY, 8" THICK - REFER TO DETAIL 7/C801
2. CONCRETE PAVEMENT, STANDARD DUTY, 4" THICK - REFER TO DETAIL 7/C801
3. COMBINED CURB AND GUTTER - REFER TO DETAIL 3/C801
4. MOUNTABLE CURB AND GUTTER - REFER TO DETAIL 4/C801
5. NEW CONCRETE TO EXISTING CONCRETE - REFER TO DETAIL 5/C801
6. TALL STANDING CONCRETE CURB - REFER TO DETAIL 6/C801
7. STANDING CONCRETE CURB - REFER TO DETAIL 7/C801
8. ASPHALT PAVEMENT PATCH - REFER TO DETAIL 8/C801
9. ASPHALT MILL, BITUMINOUS WEDGE AND LEVEL - REFER TO DETAIL 9/C801
10. 6" CONCRETE CURB TRANSITION FROM FLUSH TO 6" HEIGHT
11. INDOT STANDARD CURB RAMP - REFER TO DETAIL 11/C801
12. TOP CURB AND GUTTER DEPRESSES TO BE FLUSH WITH DRIVE PAVEMENT

LEGEND

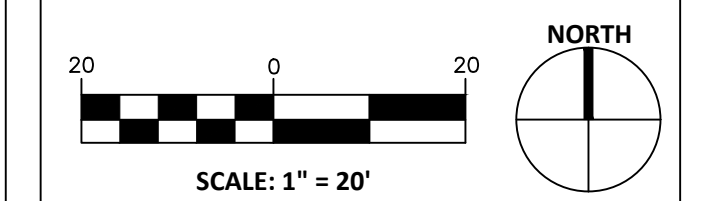
- LIMITS OF NEW BITUMINOUS WEDGE AND LEVEL
- LIMITS OF NEW STANDARD DUTY CONCRETE PAVING
- LIMITS OF NEW HEAVY DUTY CONCRETE PAVING
- LIMITS OF ASPHALT PAVEMENT PATCH
- TALL CURB



**SOUTH WALNUT STREET
SIDEWALK IMPROVEMENTS**
SOUTH WALNUT STREET
BLOOMINGTON, INDIANA

BRCJ Project No: 10525

SITE IMPROVEMENT PLAN



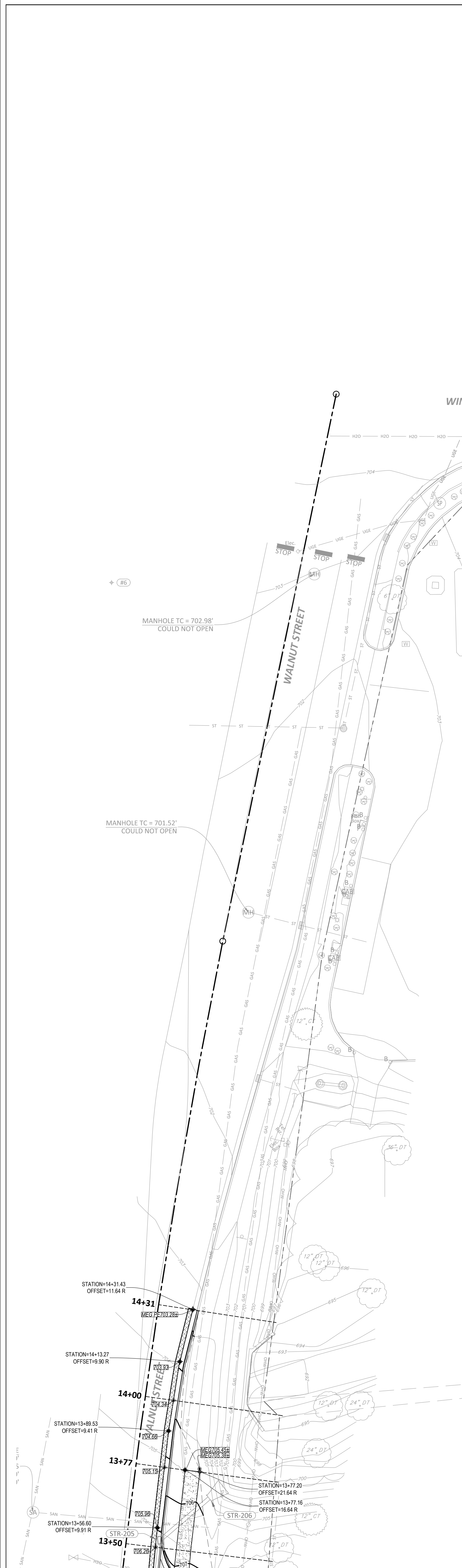
Date: 11-05-2021
Issue: 100% CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

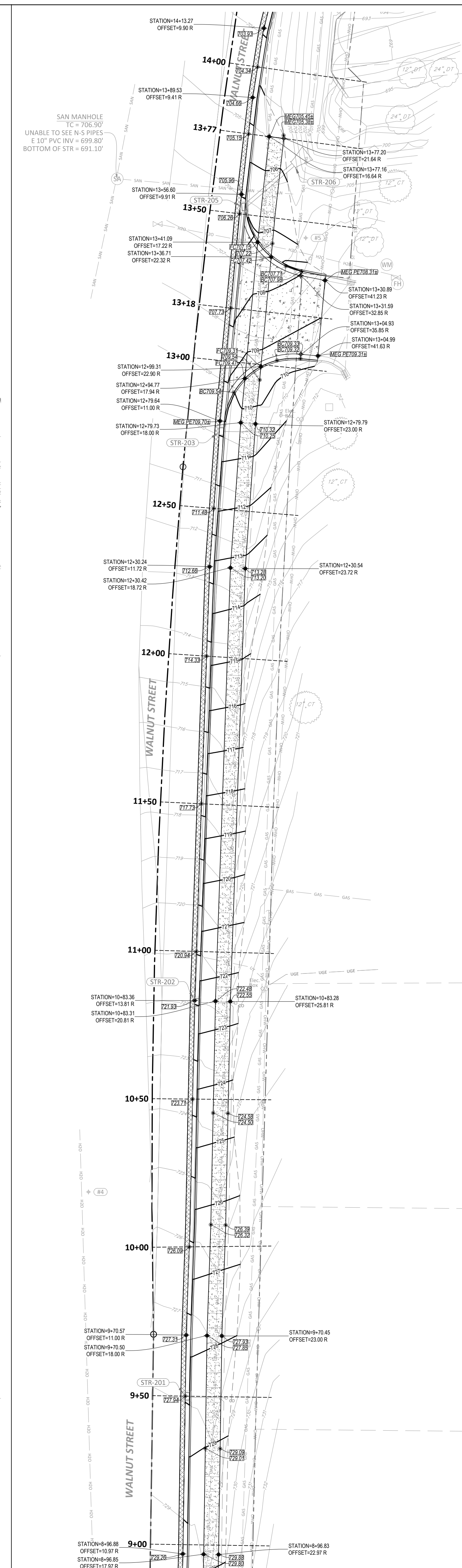
Rev. #	Rev. Description:	Issue Date

Drawn By: DLN
Designed By: DLN
Checked By: WSR

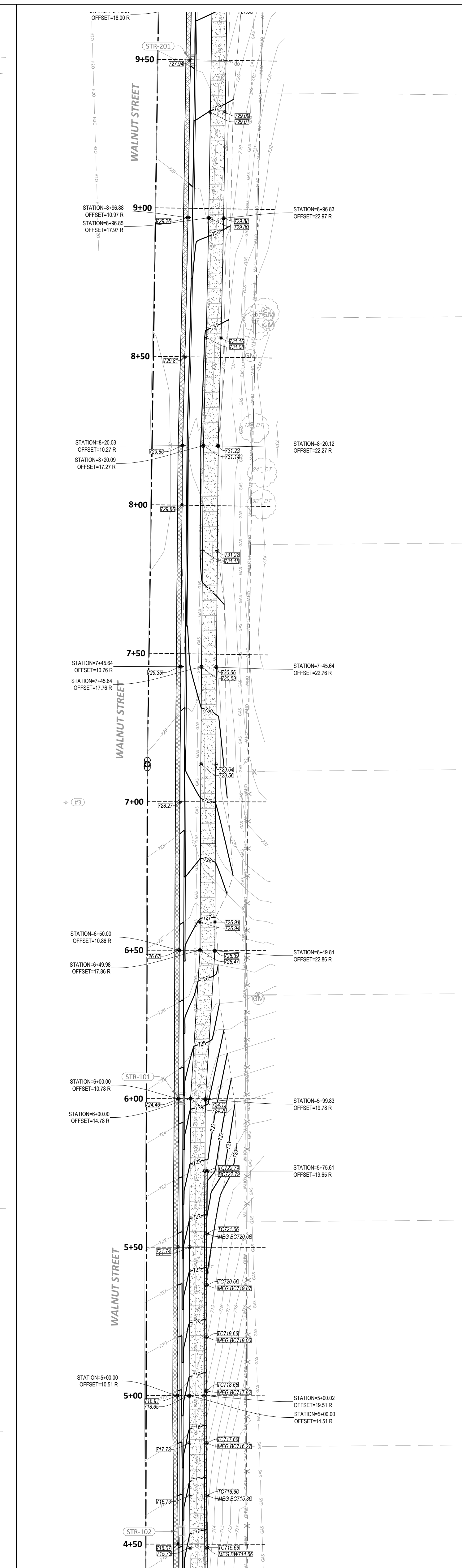
C401



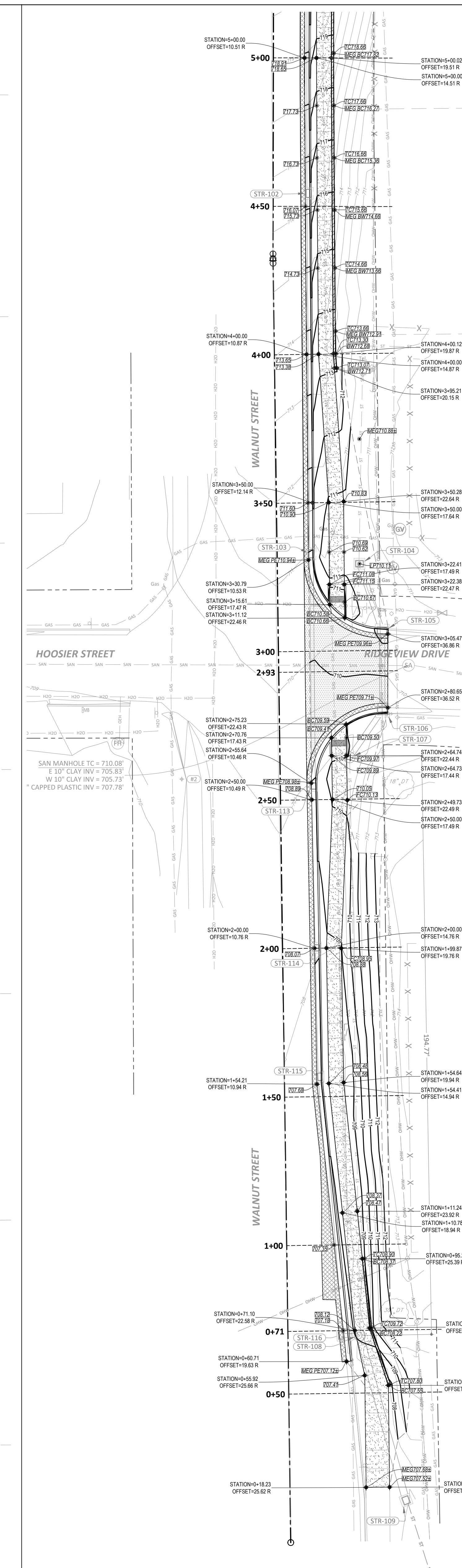
STATION 13+50 to 17+44



STATION 9+00 to 14+00



STATION 4+50 to 9+50



STATION 0+00 to 5+00

GENERAL NOTES

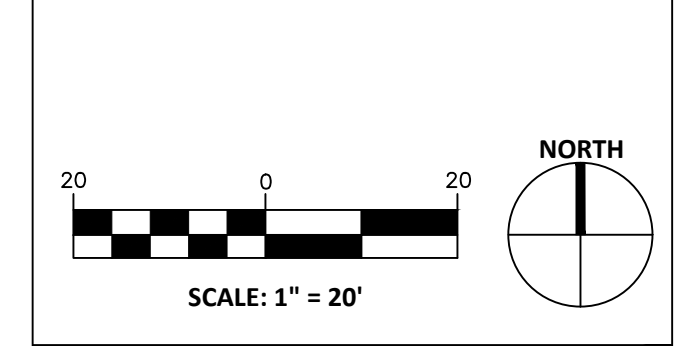
- A. GRADE ALL AREAS TO THE FINISH GRADES SHOWN.
- B. CONTRACTOR TO VERIFY FIELD CONDITIONS WITH RESPECT TO THE PROPOSED GRADING PLANS AND NOTIFY ENGINEER OF ANY AND ALL DISCREPANCIES PRIOR TO BEGINNING WORK.
- C. INSTALL AND MAINTAIN EROSION CONTROL DEVICES AS REQUIRED AND WHERE NECESSARY TO CONTROL SEDIMENT.
- D. CONTRACTOR SHALL PREVENT SURFACE WATER AND GROUND WATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SURFACES AND FROM FLOODING PROJECT SITE AND SURROUNDING AREAS. PROTECT SUBGRADES FROM SOFTENING, UNDERMINING, WASHOUT AND DAMAGE BY RAIN OR WATER ACCUMULATION. THIS WILL REQUIRE SUPPLEMENTAL GRADING ABOVE AND BEYOND THAT SHOWN.
- E. CONTRACTOR SHALL ADJUST ALL CASTINGS TO FINISHED GRADE.
- F. CONTRACTOR SHALL ESTABLISH FINISH GRADES TO ENSURE POSITIVE DRAINAGE WITH NO PONDING.
- G. LONGITUDINAL SIDEWALK SLOPE SHALL NOT EXCEED 5%, UNLESS NOTED OTHERWISE. TRANSVERSE SIDEWALK SLOPE SHALL NOT EXCEED 2%.
- H. SPOT GRADES GIVEN AT THE FACE OF CURB INDICATE PAVEMENT EDGE/CURB INTERFACE (FLOW LINE) ELEVATION, UNLESS NOTED OTHERWISE. BOTTOM OF WALL ELEVATIONS INDICATE WHERE FINISH GRADE AND WALL MEET.
- I. ALL SLOPES 3:1 OR GREATER TO BE COVERED WITH NORTH AMERICAN GREEN S8150N EROSION CONTROL BLANKET OR APPROVED EQUAL. INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- J. CONTRACTOR SHALL NOT SET EQUIPMENT DIRECTLY ABOVE 8" HIGH PRESSURE GAS MAIN, OR WALL EQUIPMENT LATERALLY ABOVE EXISTING GAS MAIN. CONTRACTOR SHALL USE PROTECTIVE MATTING IF PLACEMENT OR MOVEMENT OF HEAVY EQUIPMENT ABOVE GAS LINE IS UNAVOIDABLE. CROSS EQUIPMENT OVER GAS MAIN AT RIGHT ANGLES.
- K. CONTRACTOR SHALL NOT USE VIBRATORY COMPACTION EQUIPMENT WITHIN 10' OF HIGH PRESSURE GAS MAIN. COMPACTION OF SUBGRADE AND AGGREGATE BASE MATERIALS OVER GAS MAIN MUST BE ACHIEVED BY ROLLING AND TAMPING ONLY.

Bledsoe Riggert Cooper James
BRCJ
 LAND SURVEYING • CIVIL ENGINEERING • GIS
 1351 West Tapp Road Bloomington, Indiana 47403
 Phone: 812-336-8277 www.brcjvll.com

CITY OF BLOOMINGTON

W. Riggert

**SOUTH WALNUT STREET
 SIDEWALK IMPROVEMENTS**
 SOUTH WALNUT STREET
 BLOOMINGTON, INDIANA
 BRCJ Project No: 10525
SITE GRADING PLAN



Date: 11-05-2021
 Issue: 100% CONSTRUCTION DOCUMENTS

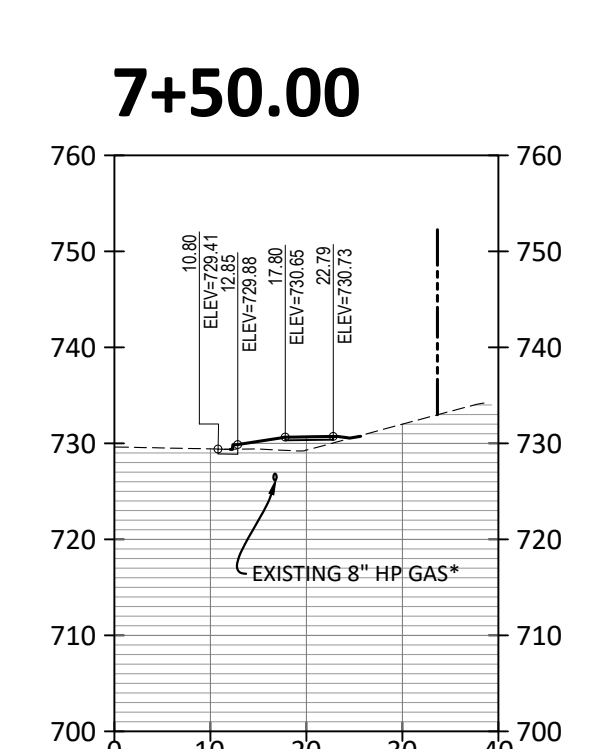
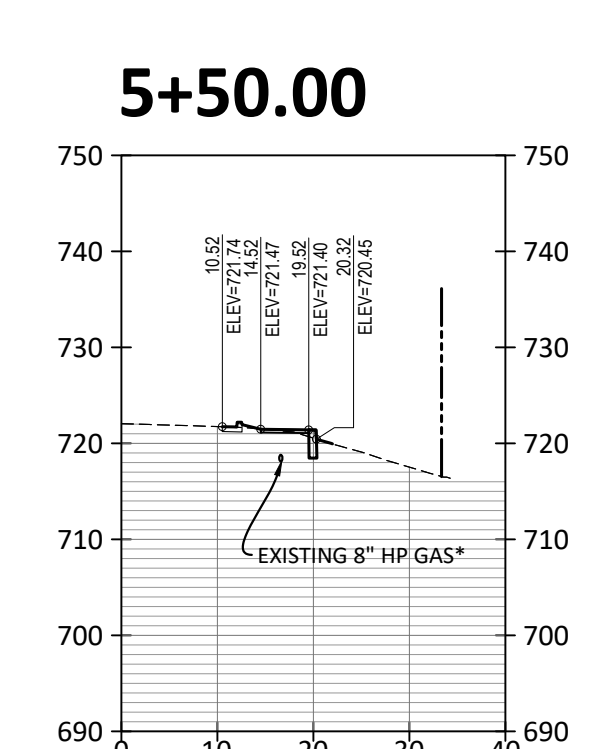
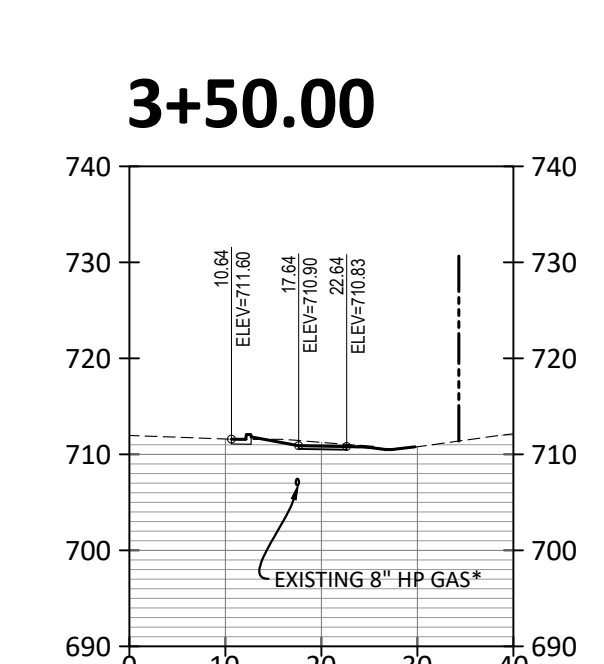
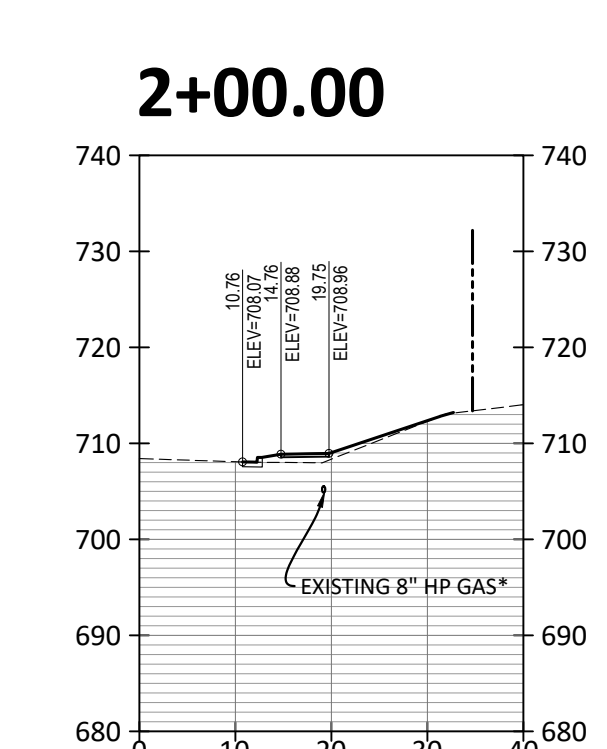
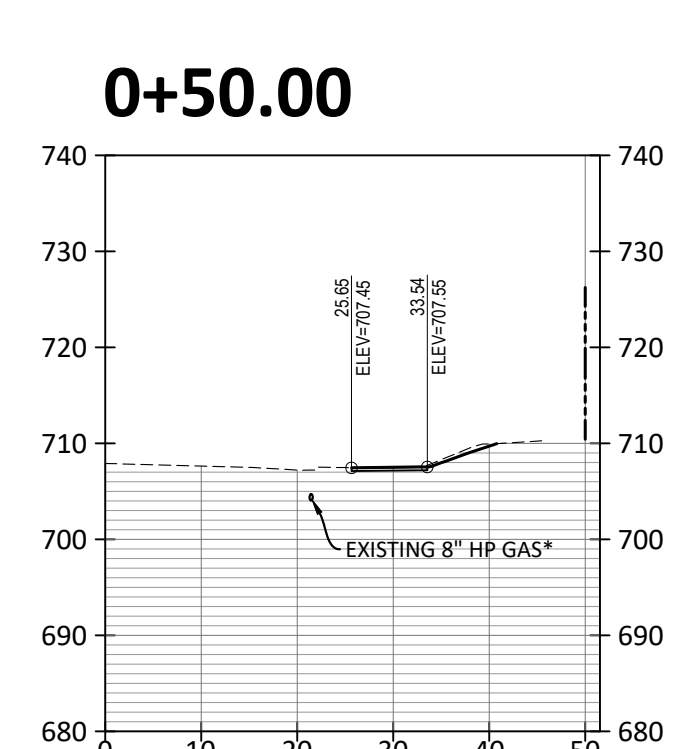
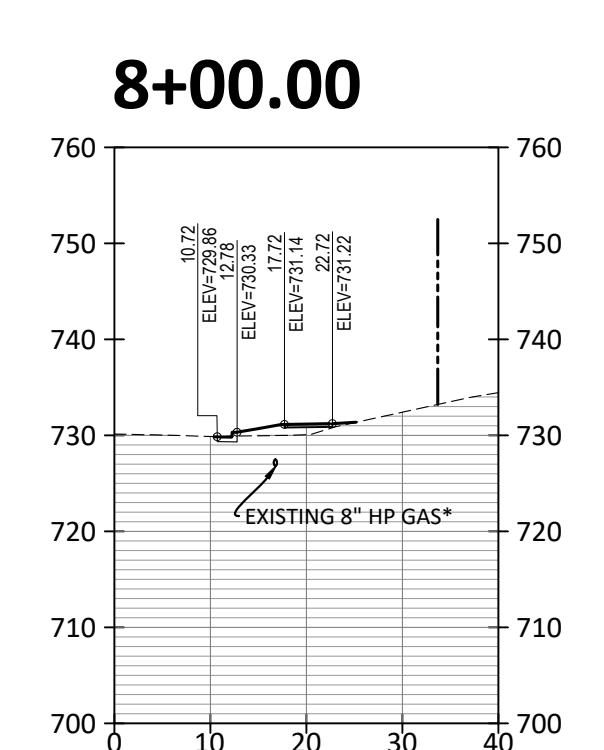
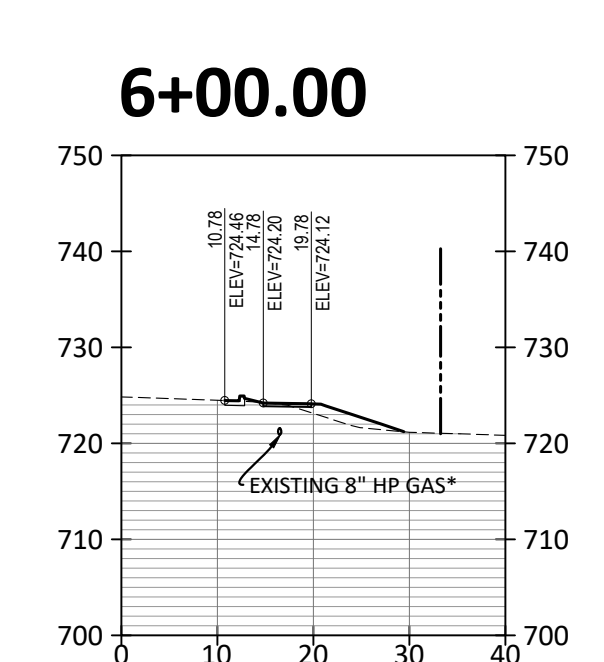
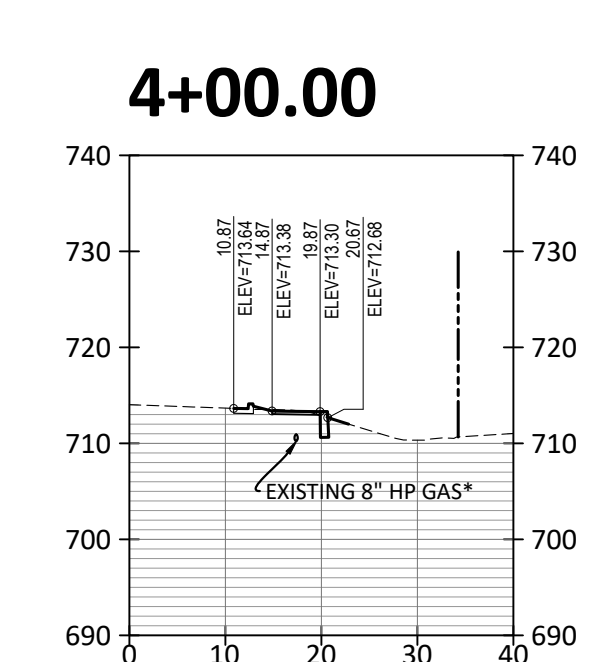
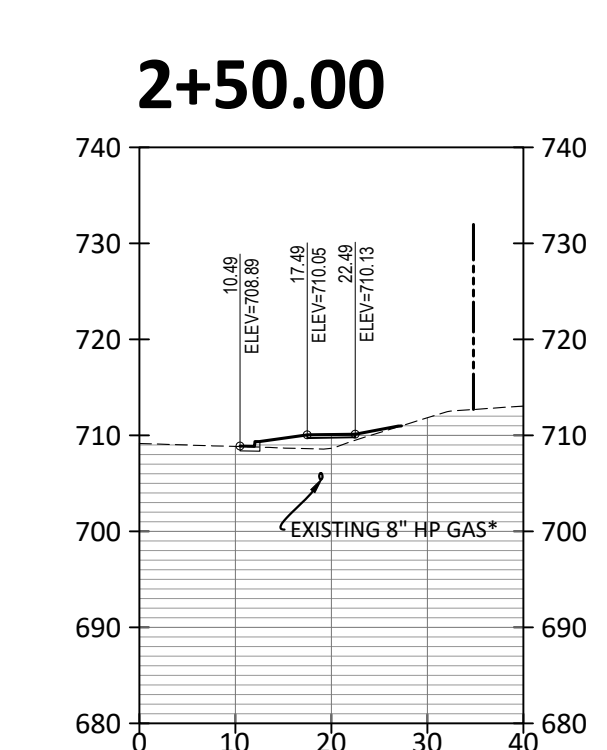
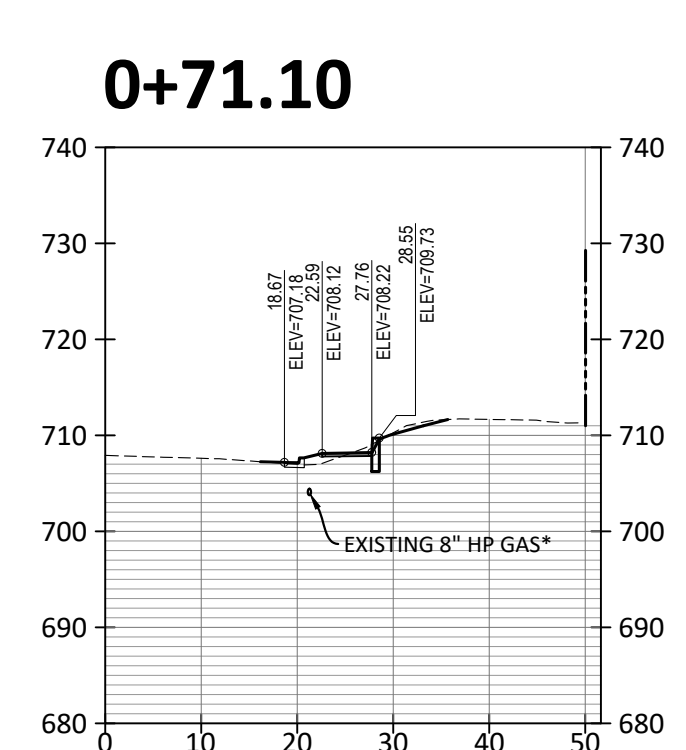
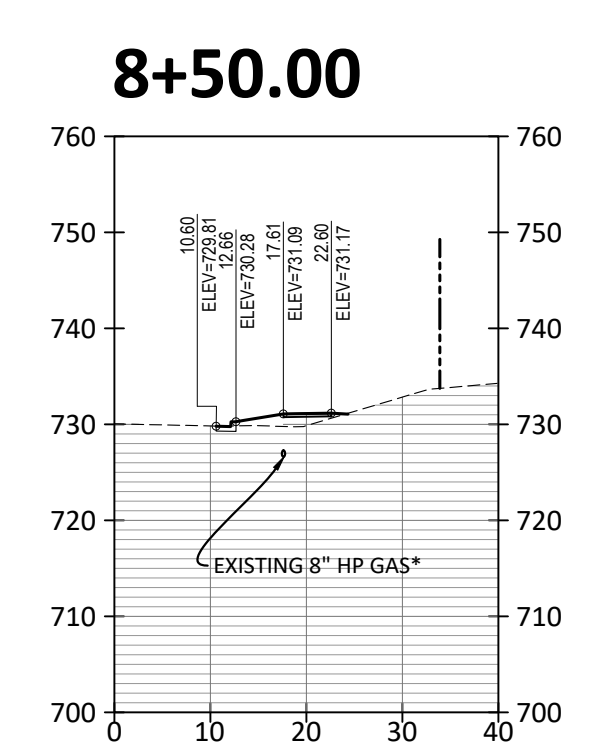
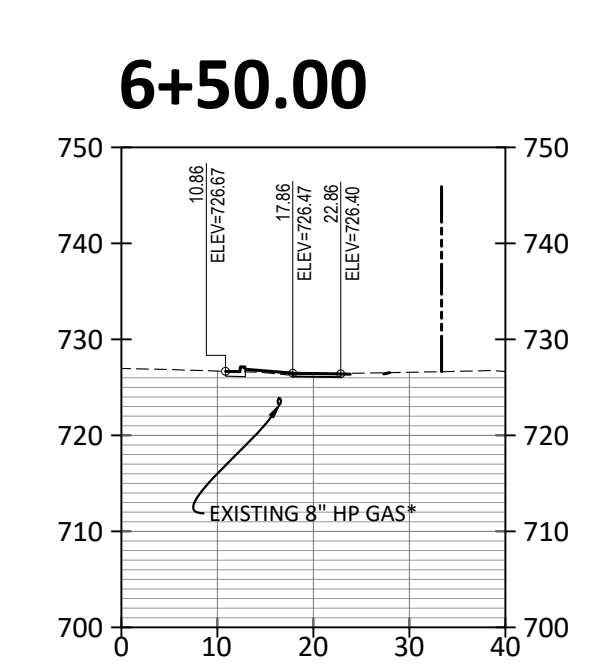
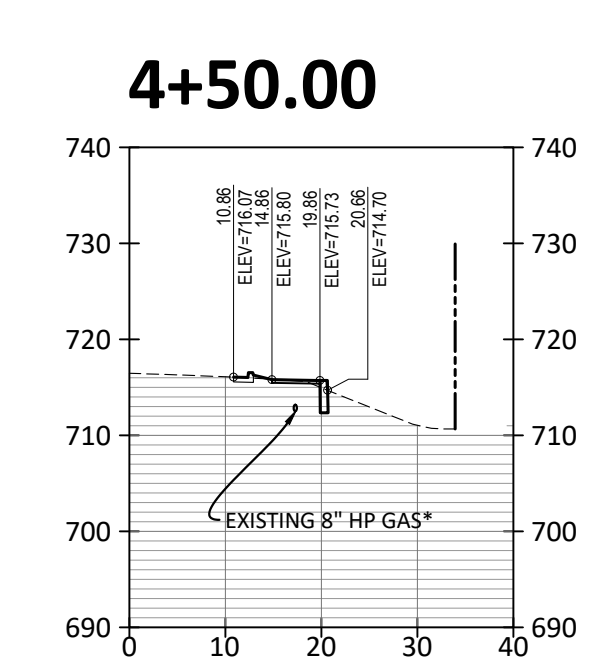
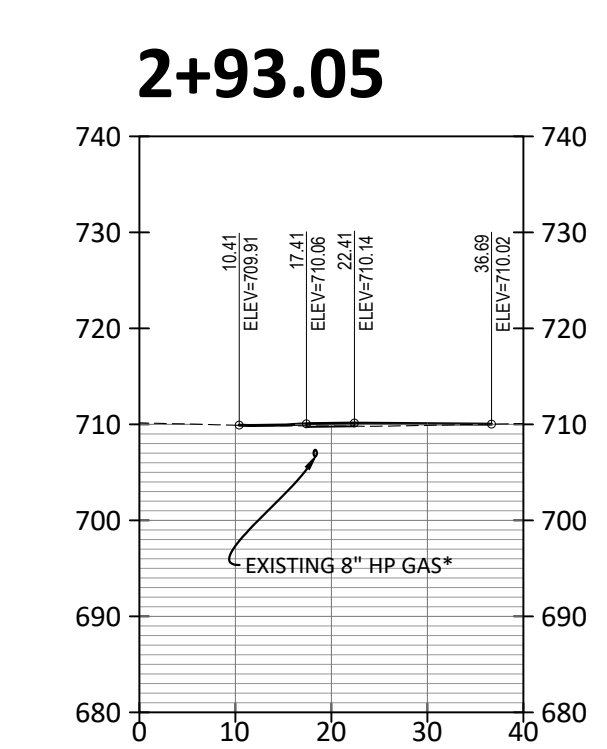
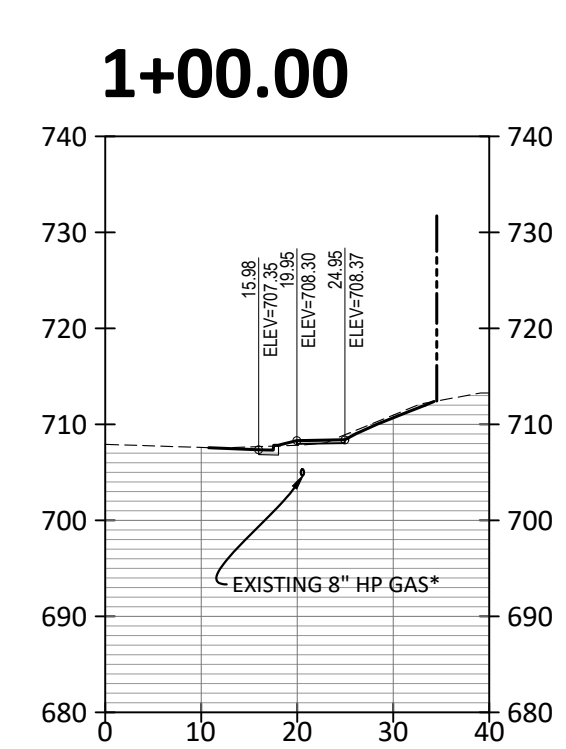
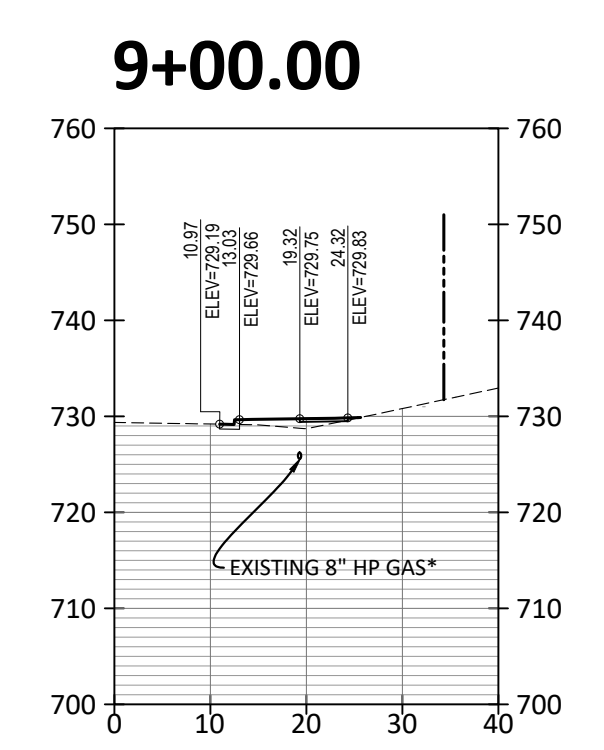
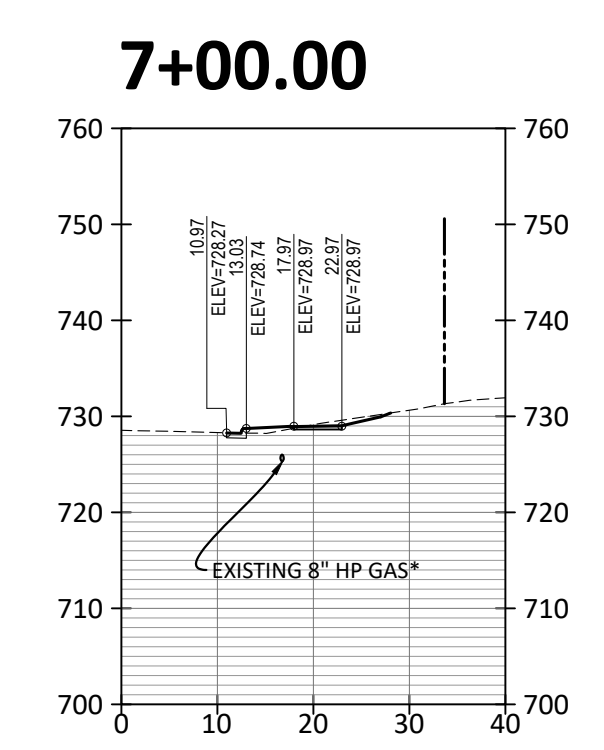
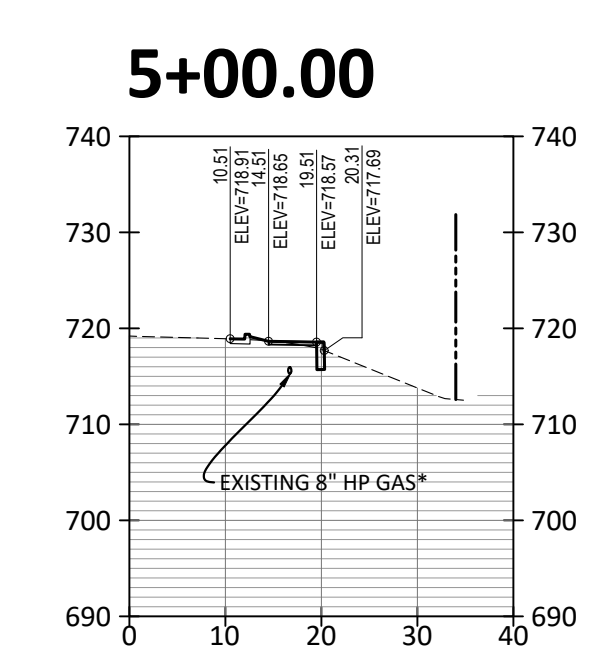
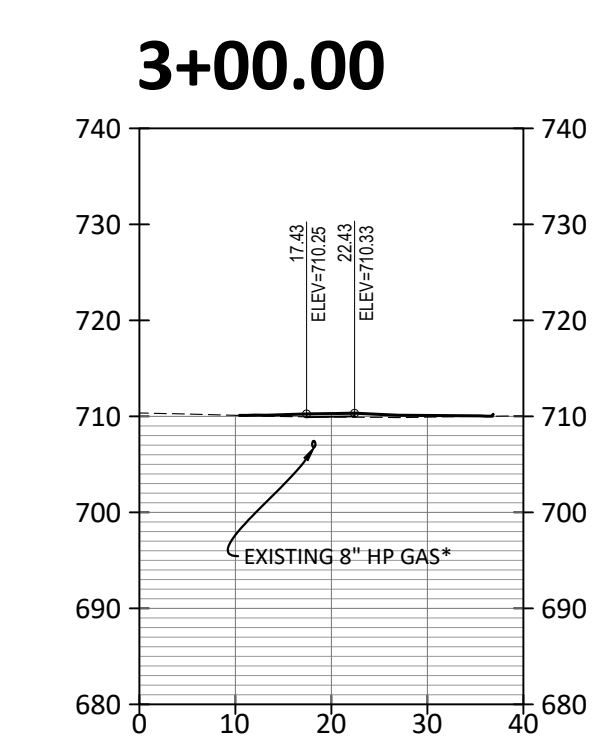
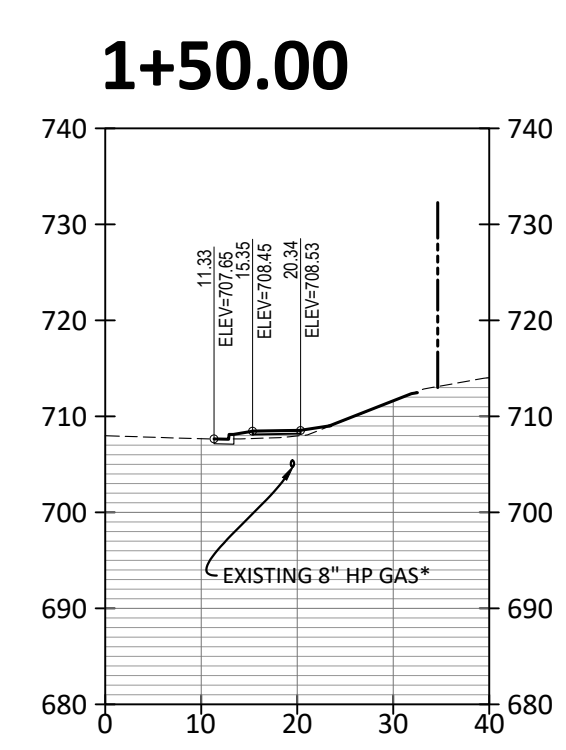
REVISION SCHEDULE		
Rev. #	Rev. Description:	Issue Date

LEGEND

- PROPOSED CONTOURS
- EXISTING CONTOURS
- SPOT ELEVATION
- MATCH EXISTING GRADE
- TOP OF WALL
- BOTTOM OF WALL AT FINISH GRADE ELEVATION
- TOP OF STAIR - ELEVATION IS EQUAL ACROSS WIDTH
- BOTTOM OF STAIR - ELEVATION IS EQUAL ACROSS WIDTH
- BOTTOM OF CURB WHERE IT MEETS PAVEMENT. FOR STANDING AND CHAIR BACK CURBS, TOP OF CURB IS 5" ABOVE THIS ELEVATION UNLESS NOTED OTHERWISE. FOR ROLL CURBS, TOP OF CURB IS 3.5" ABOVE THIS ELEVATION, UNLESS NOTED OTHERWISE.
- CHAIR BACK CURB PAN EDGE ELEVATION
- FLUSH CURB - CURB IS IN FULLY DEPRESSED CONDITION
- TOP OF CURB - PROVIDED ONLY WHEN CURB IS IN A NONSTANDARD HEIGHT CONDITION.
- TOP OF BANK
- LIMITS OF ASPHALT PAVEMENT
- LIMITS OF CONCRETE PAVING
- RETAINING WALL

Drawn By: DLN
 Designed By: DLN
 Checked By: WSR

C501



**SOUTH WALNUT STREET
 SIDEWALK IMPROVEMENTS**

SOUTH WALNUT STREET
 BLOOMINGTON, INDIANA

BRCJ Project No: 10525

SITE SECTIONS

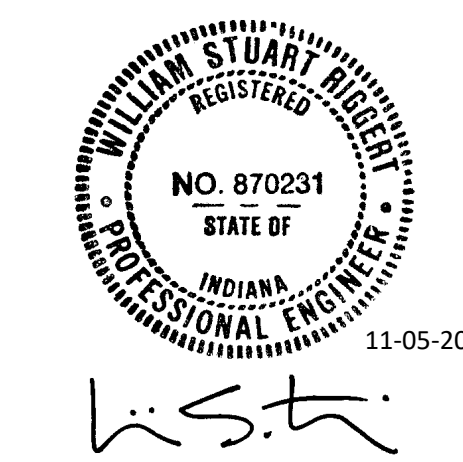
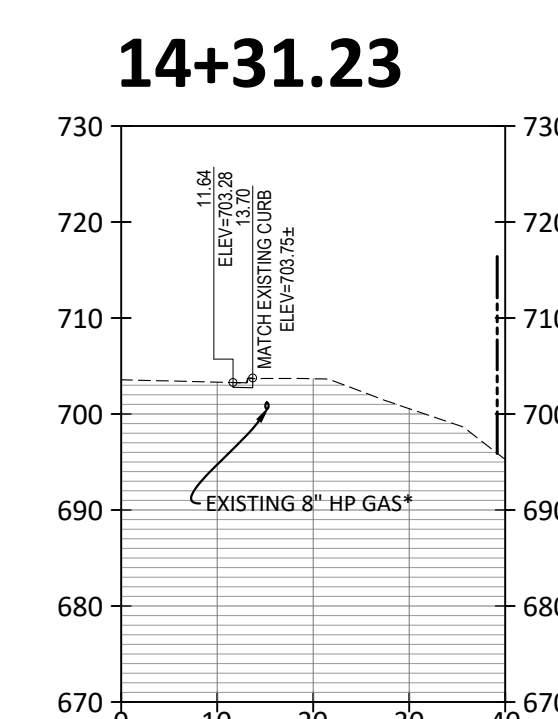
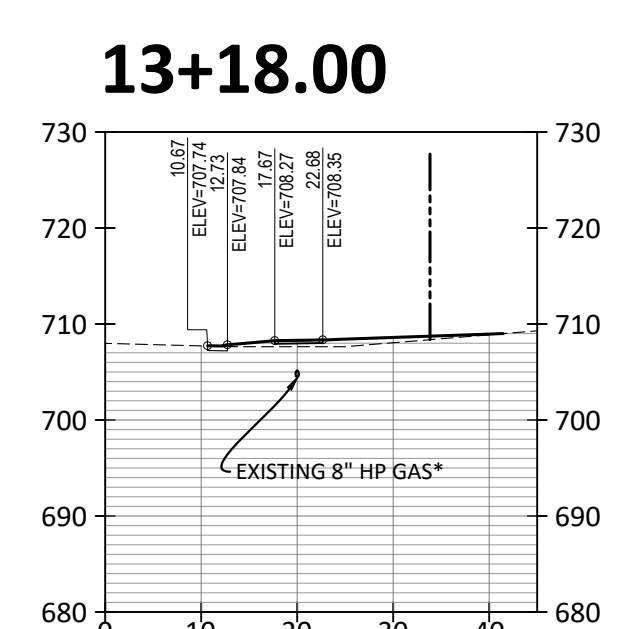
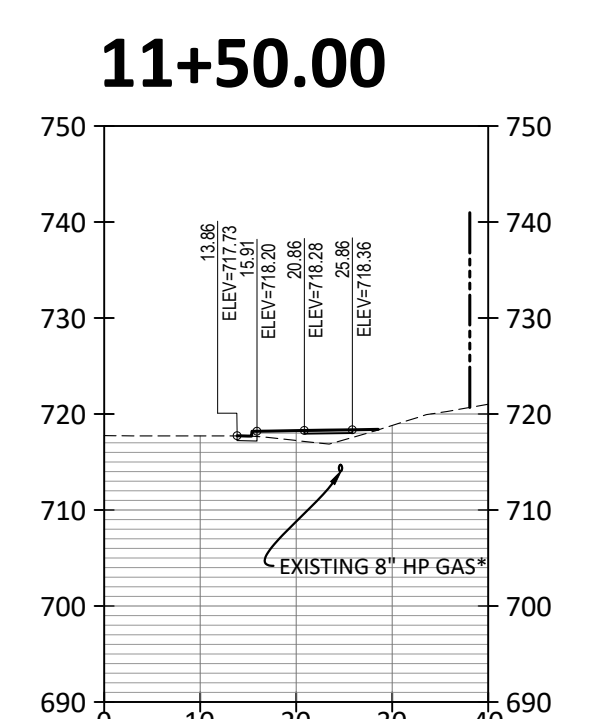
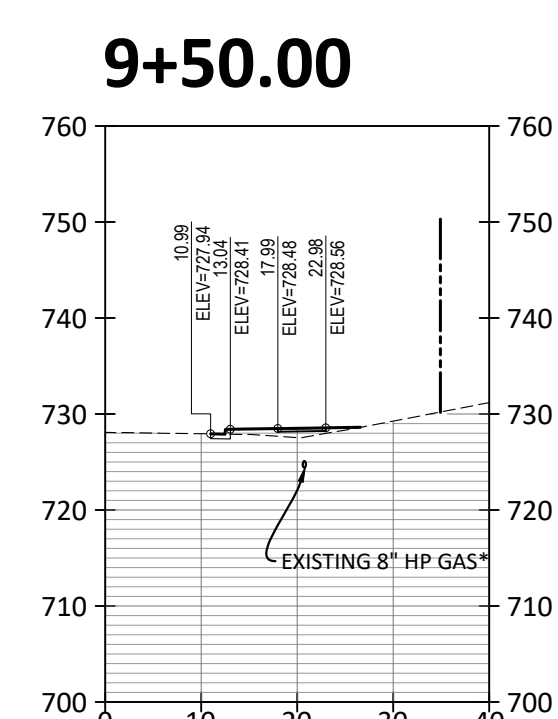
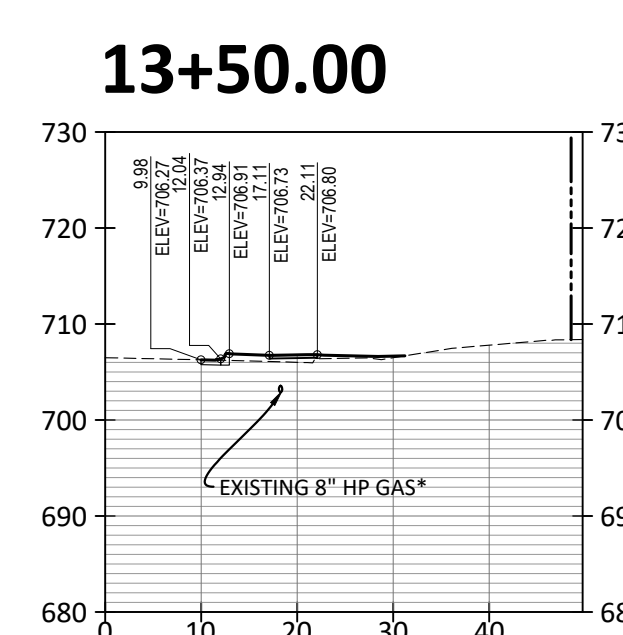
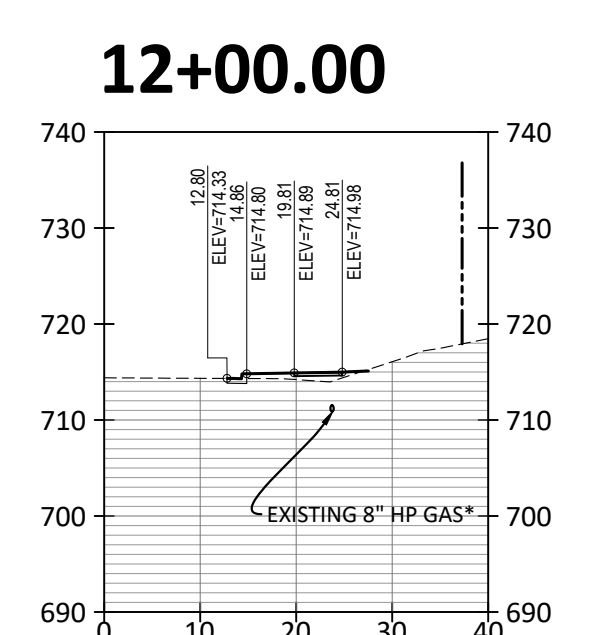
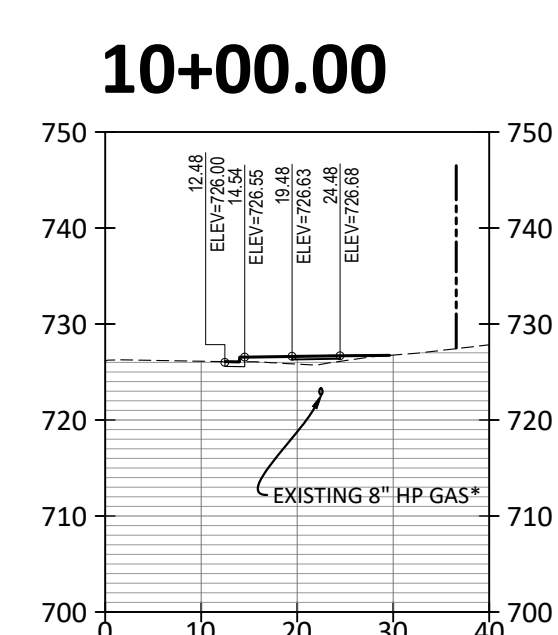
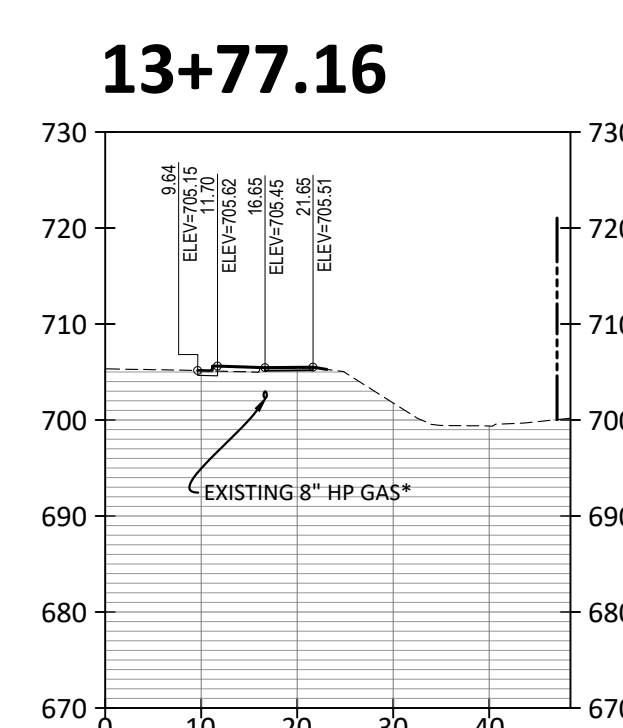
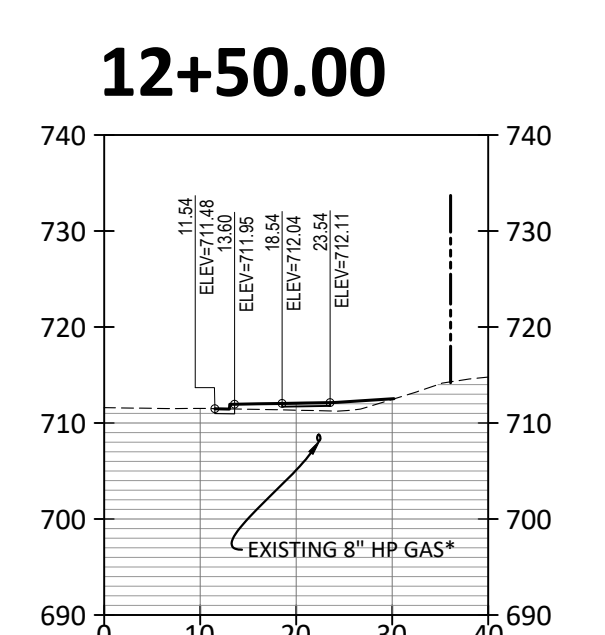
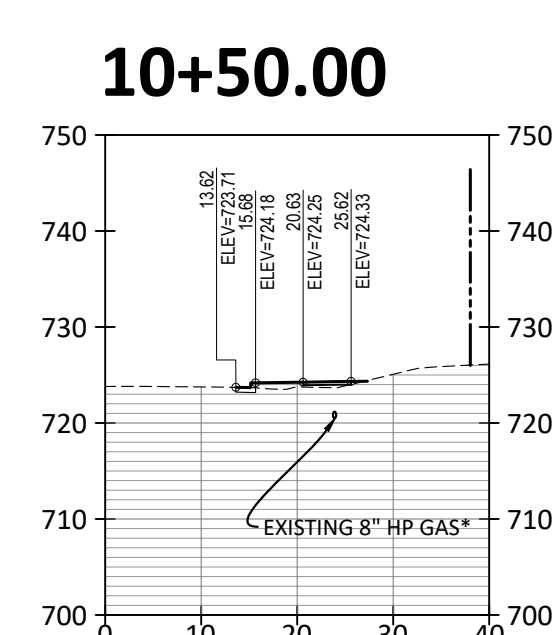
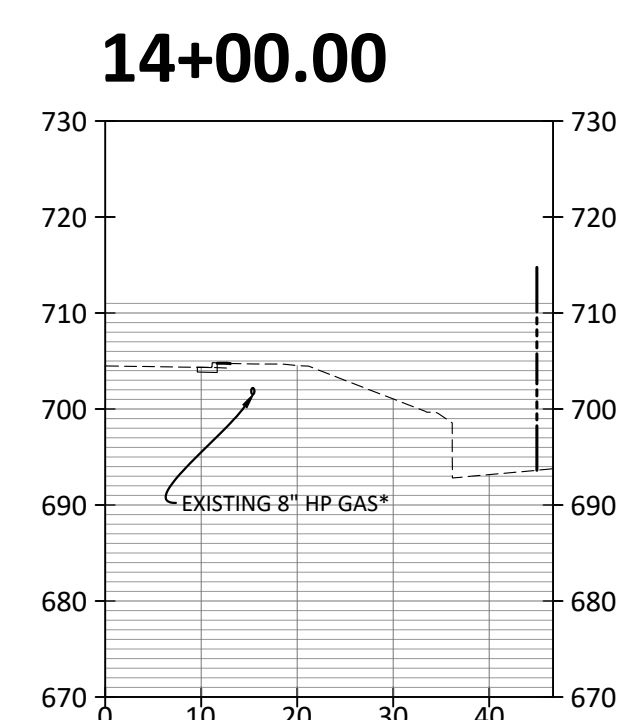
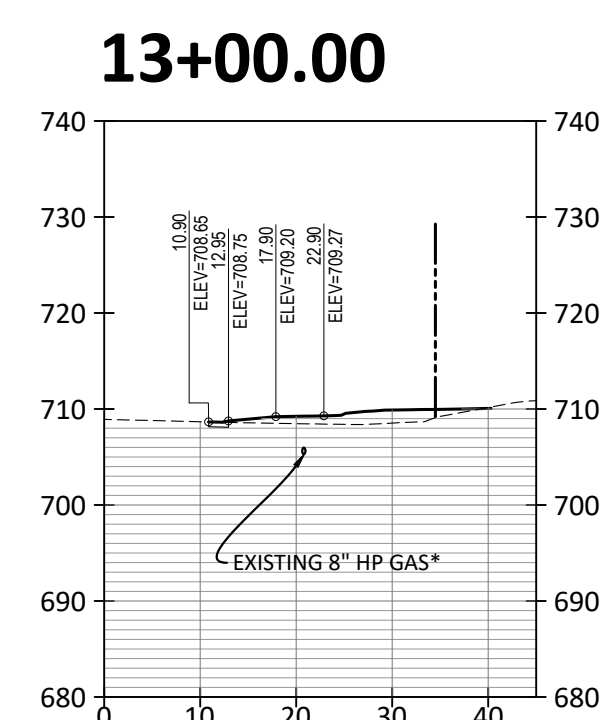
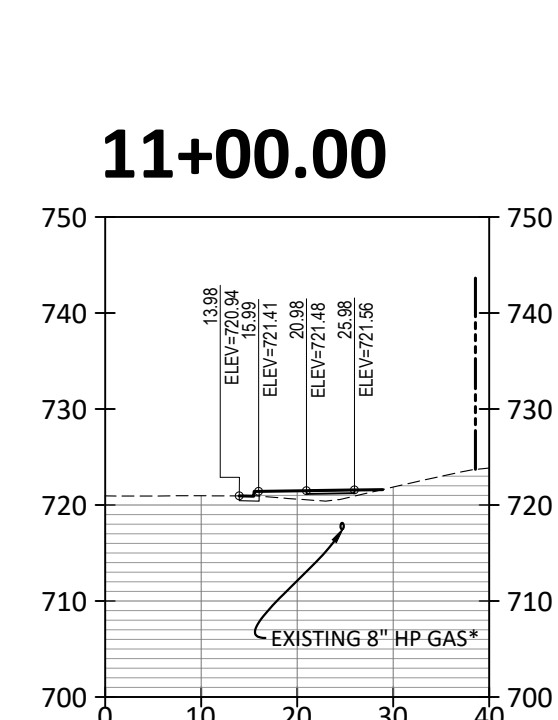
SCALE: 1" = 20'

Date: 11-05-2021 Issue: 100% CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
Rev. #	Rev. Description:	Issue Date

Drawn By: DLN
 Designed By: DLN
 Checked By: WSR

* CONTRACTOR TO CONFIRM DEPTH, DIAMETER AND MATERIAL OF CROSSING UTILITIES PRIOR TO START OF CONSTRUCTION.
 ONLY EXISTING 8" HP GAS BENEATH PROPOSED SIDEWALK IS SHOWN. REFER TO GSDI SITE UTILITIES PLAN FOR OTHER UTILITIES.



**SOUTH WALNUT STREET
 SIDEWALK IMPROVEMENTS**

SOUTH WALNUT STREET
 BLOOMINGTON, INDIANA

BRCJ Project No: 10525

SITE SECTIONS

SCALE: 1" = 20'

Date: 11-05-2021 Issue: 100% CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

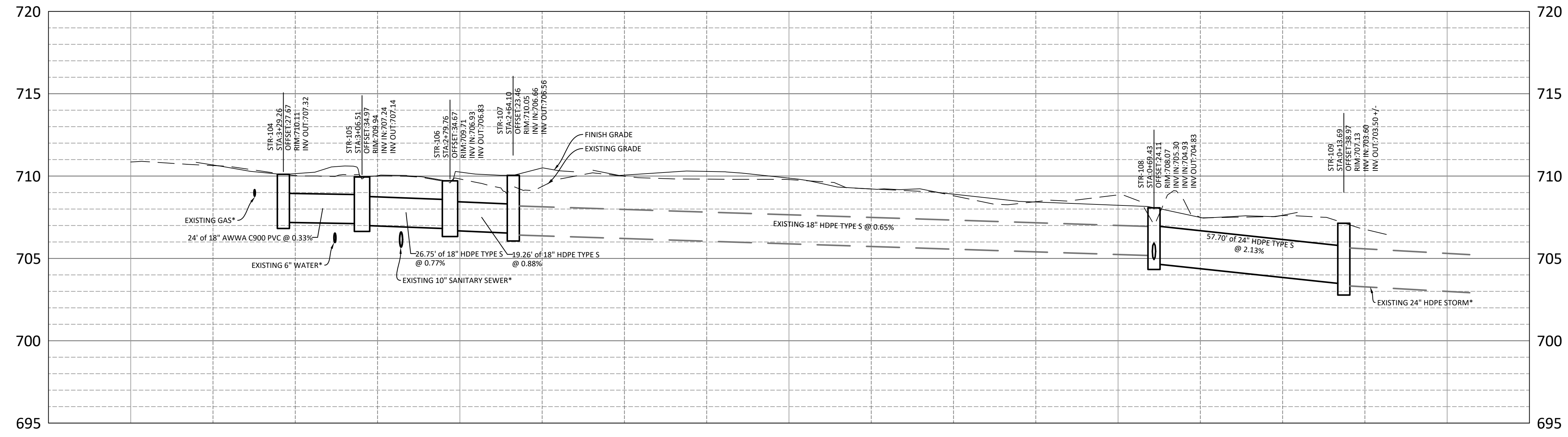
Rev. #	Rev. Description:	Issue Date

Drawn By: DLN
 Designed By: DLN
 Checked By: WSR

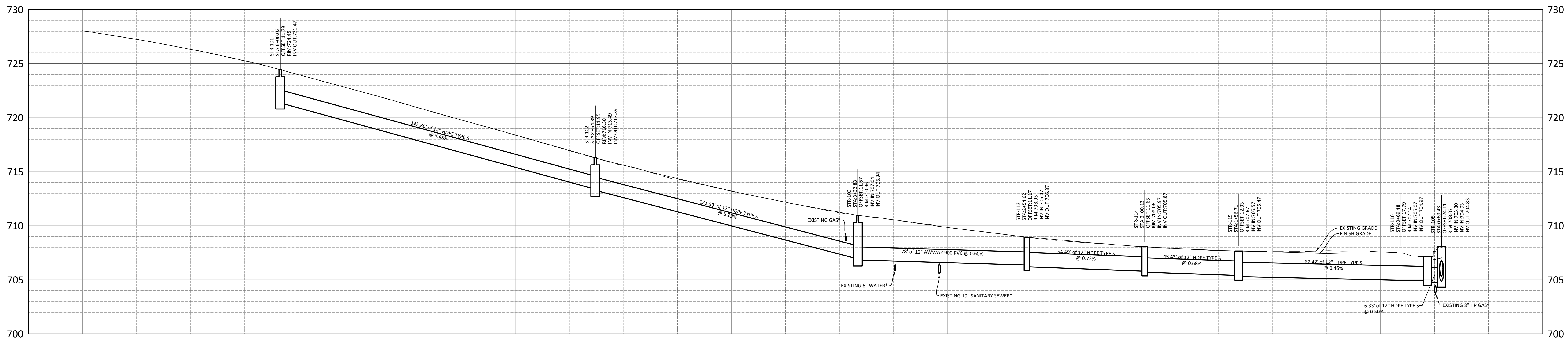
* CONTRACTOR TO CONFIRM DEPTH,
 DIAMETER AND MATERIAL OF
 CROSSING UTILITIES PRIOR TO START
 OF CONSTRUCTION.
 ONLY EXISTING 8" HP GAS BENEATH
 PROPOSED SIDEWALK IS SHOWN.
 REFER TO GSDI SITE UTILITIES PLAN
 FOR OTHER UTILITIES.

STORM STRUCTURE DATA TABLE											
STR #	CASTING	STRUCTURE TYPE / DETAIL	REFERENCE PROFILE	NORTHING EASTING	RIM ELEV	PIPE SIZE	PIPE INV (OUT)	DOWN STR #	PIPE LENGTH	PIPE SLOPE %	NOTES
STR-101	EJW 7505	INLET TYPE J	SD-1A	1415303.65 3109320.51	724.45	12"	721.47	STR-102	145.86	5.48%	
STR-102	EJW 7505	INLET TYPE J	SD-1A	1415158.01 3109320.39	716.30	12"	713.39	STR-103	121.53	5.23%	
STR-103	EJW 7505	INLET TYPE J	SD-1A	1415036.65 3109321.34	710.96	12"	706.94	STR-113	78.22	0.60%	
STR-104	EJW 6610	INLET TYPE E	SD-1	1415033.30 3109337.49	710.11	18"	707.32	STR-105	23.89	0.33%	1
STR-105	EJW 7565	INLET TYPE C	SD-1	1415010.65 3109345.10	709.94	18"	707.14	STR-106	26.75	0.77%	
STR-106	EJW 7505	INLET TYPE J	SD-1	1414983.90 3109345.17	709.71	18"	706.83	STR-107	19.26	0.88%	
STR-107	EJW 1020 W/ SOLID LID	48" MANHOLE W/ FLAT TOP	SD-1	1414958.09 3109334.18	710.05	18"	706.56	STR-108	194.67	0.65%	1
STR-108	EJW 1020 W/ SOLID LID	48" MANHOLE W/ FLAT TOP	SD-1	1414773.45 3109337.53	708.07	24"	704.83	STR-109	57.70	2.13%	1
STR-109	EJW 6610	INLET TYPE E	SD-1	1414717.92 3109353.15	707.13	24"	703.50	---	45.00	1.11%	1
STR-113	EJW 7505	INLET TYPE J	SD-1A	1414958.44 3109323.02	708.95	12"	706.37	STR-114	54.49	0.73%	
STR-114	EJW 7505	INLET TYPE J	SD-1A	1414903.97 3109323.25	708.06	12"	705.87	STR-115	43.43	0.68%	
STR-115	EJW 7505	INLET TYPE J	SD-1A	1414860.55 3109324.23	707.67	12"	705.47	STR-116	87.42	0.46%	
STR-116	EJW 7505	INLET TYPE J	SD-1A	1414773.41 3109331.20	707.14	12"	704.97	STR-108	6.33	0.50%	
STR-201	EJW 7505	INLET TYPE J	SD-2	1415653.42 3109324.04	727.93	12"	724.96	STR-202	132.80	4.41%	2
STR-202	EJW 7505	INLET TYPE J	SD-2	1415786.04 3109327.37	721.95	12"	719.01	STR-203	192.80	6.05%	2
STR-203	EJW 7505	INLET TYPE J	SD-2	1415978.32 3109335.55	710.03	12"	707.26	STR-205	76.12	4.74%	2
STR-205	EJW 7505	INLET TYPE J	SD-2	1416053.97 3109343.23	706.13	12"	703.56	STR-206	21.75	3.22%	2
STR-206	---	GALVANIZED METAL END SECTION	SD-2	1416068.10 3109359.74	0.69	---	---	---	---	---	---

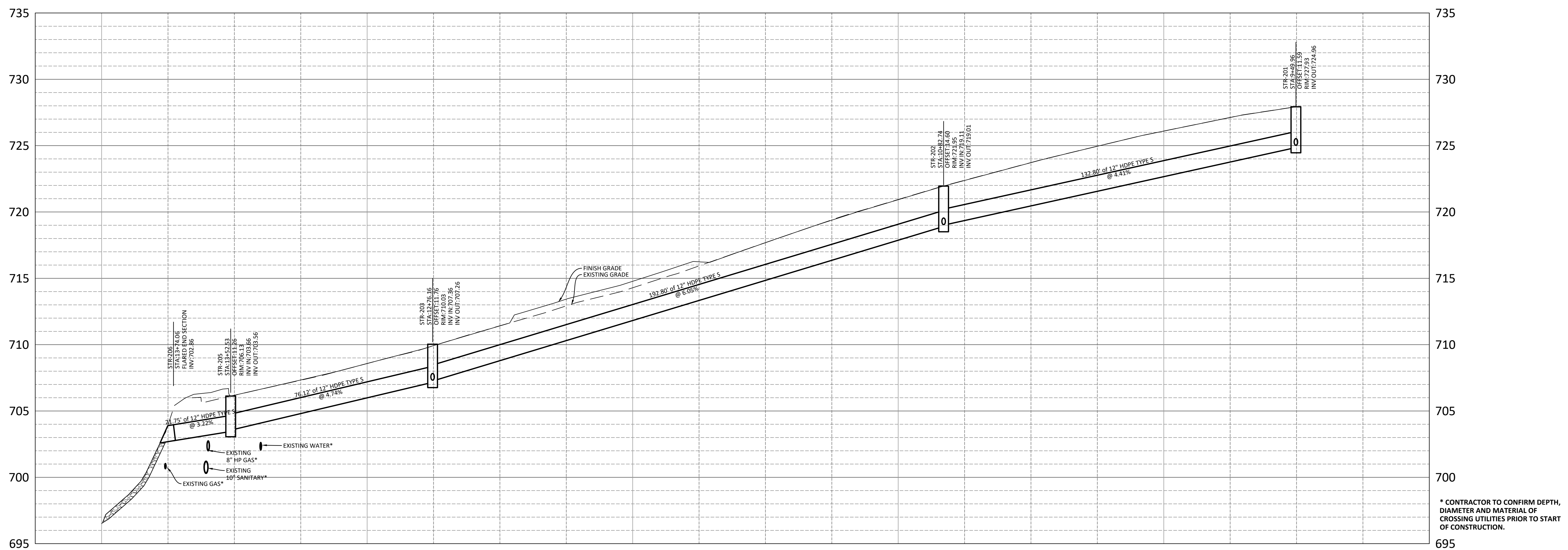
- STRUCTURE DATA TABLE NOTES:
- INSTALL STORM STRUCTURE ON EXISTING PIPE.
 - PROVIDE OPENING FOR 6" UNDERDRAIN CONNECTION - EAST.



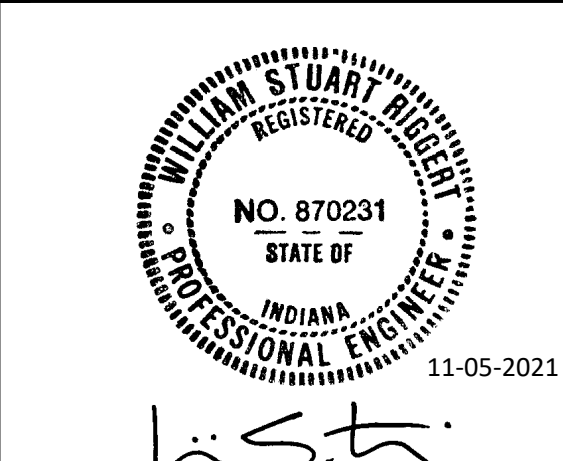
STORM PROFILE SD-1 HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=4'



STORM PROFILE SD-1A HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=4'



STORM PROFILE SD-2 HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=4'



**SOUTH WALNUT STREET
SIDEWALK IMPROVEMENTS**
SOUTH WALNUT STREET
BLOOMINGTON, INDIANA
BRCJ Project No: 10525

SITE UTILITY PROFILES

Date: 11-05-2021 Issue: 100% CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
Rev. #	Rev. Description:	Issue Date

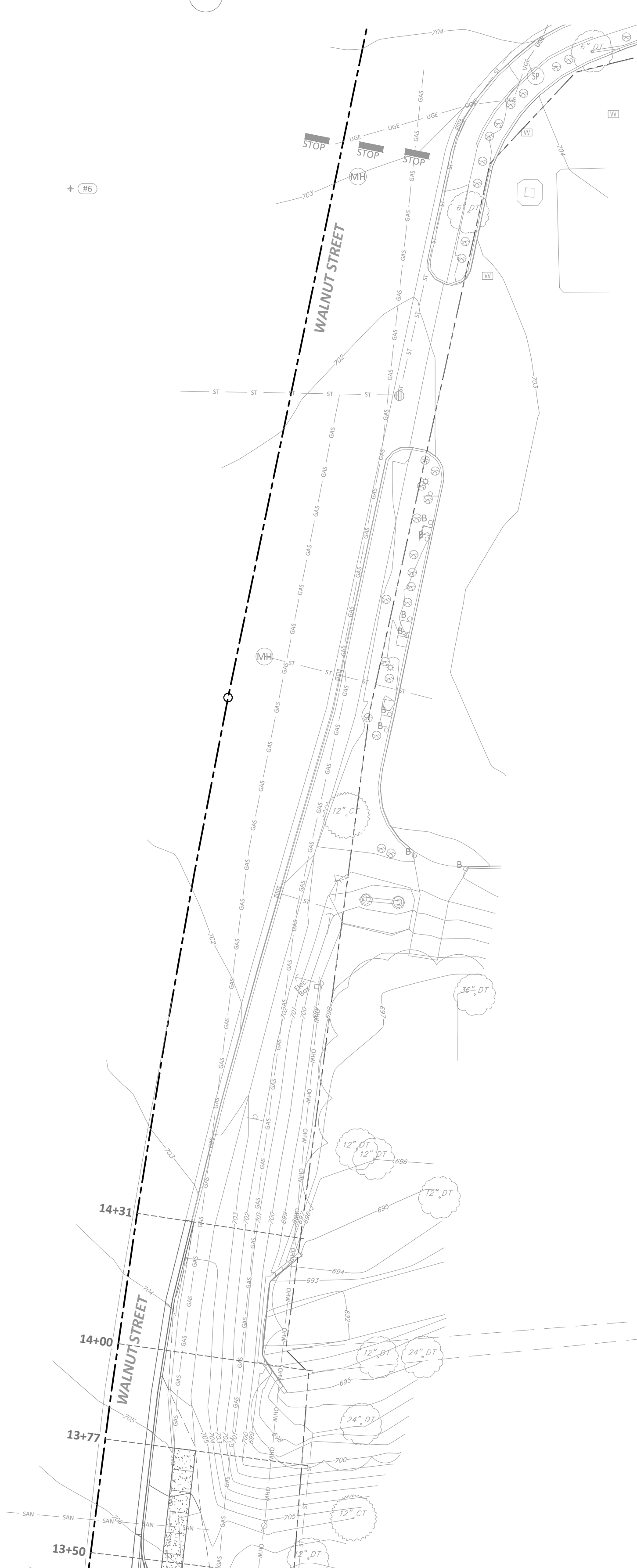
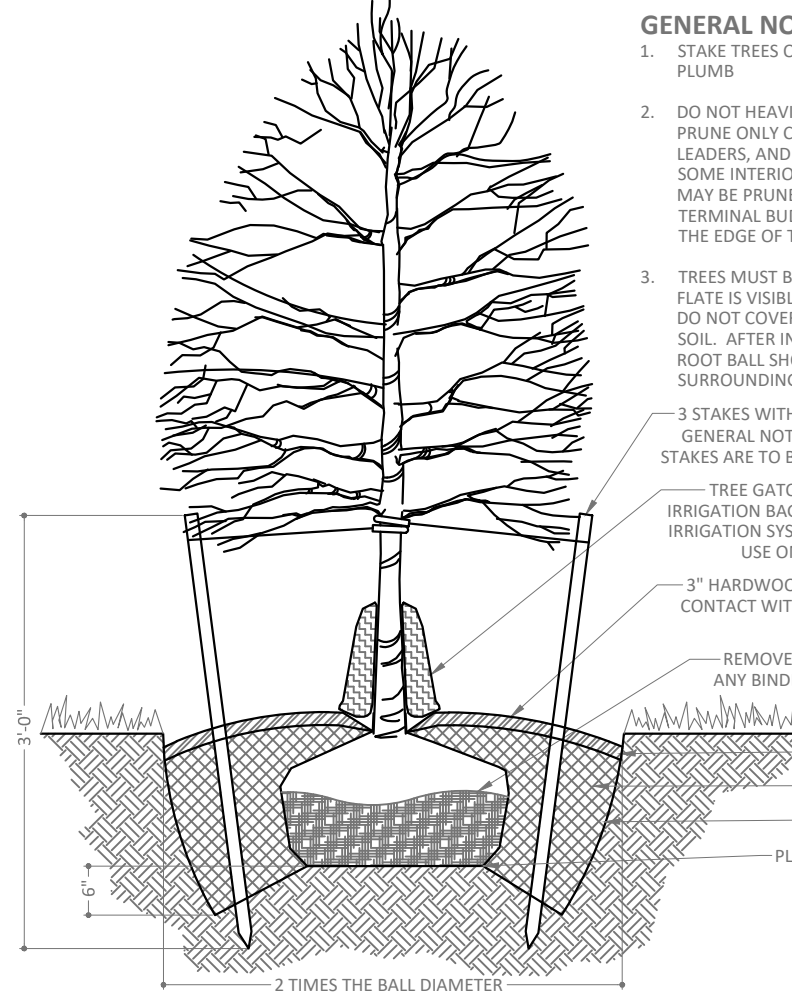
Drawn By: AEK
Designed By: AEK
Checked By: WSR

PLANTING SCHEDULE

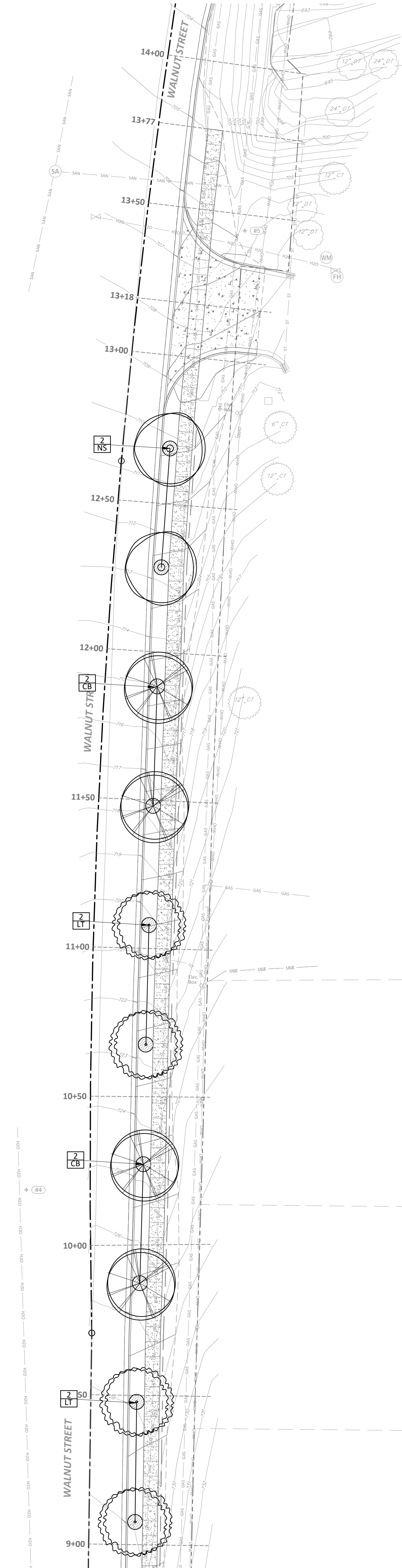
KEY	QTY	SCIENTIFIC NAME	COMMON NAME	SIZE	CONDITION
OVERSTORY TREES					
AC	8	Amelanchier Canadensis	Shadblow Serviceberry	8" High multi-stem	B & B
CB	4	Carpinus betulus 'Frans Fontaine'	Frans Fontaine Common Hornbeam	1.5" Caliper Minimum	B & B
GB	9	Ginkgo biloba 'Fastigiata'	Fastigiata Maidenhair Tree	2" Caliper Minimum	B & B
LT	4	Liriodendron tulipifera 'F5-Oz'	Emerald City Tulip Tree	2" Caliper Minimum	B & B
NS	4	Nyssa sylvatica	Black Gum	2" Caliper Minimum	B & B

GENERAL NOTES:

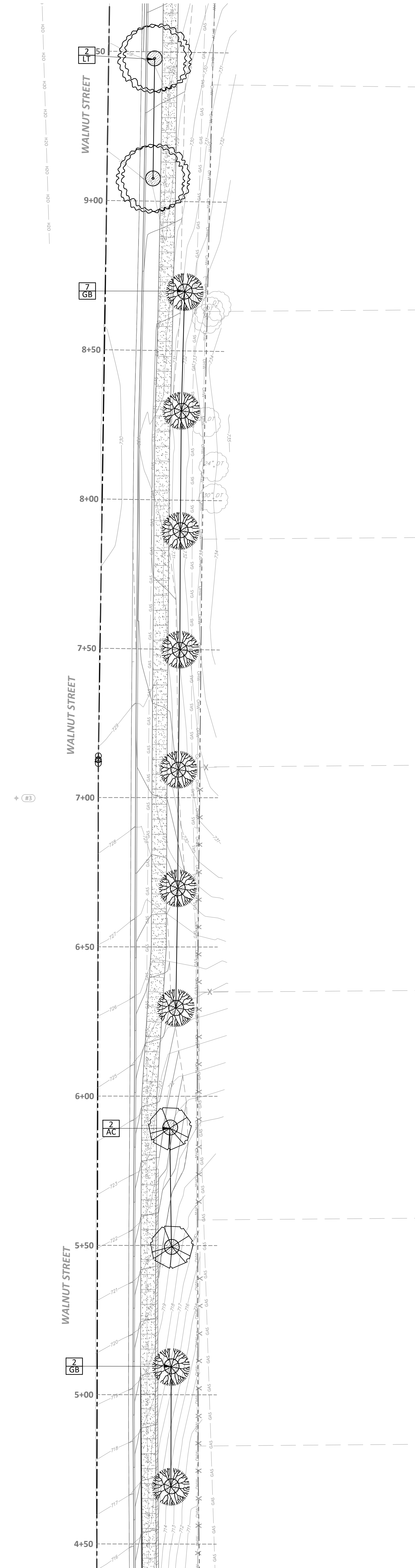
- STAKE TREES ONLY IF THEY DO NOT REMAIN PLUMB.
- DO NOT HEAVILY PRUNE TREES AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED, HOWEVER, DO NOT REMOVE TERMINAL BUDS OR BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
- TREES MUST BE PLANTED SUCH THAT THE TRUNK PLANTS IS VISIBLE AT THE TOP OF THE ROOT BALL. DO NOT COVER THE TOP OF THE ROOT BALL WITH SOIL. AFTER INSTALLATION, FINISH GRADE OF ROOT BALL SHOULD BE AT OR ABOVE SURROUNDING GRADE.
- 3 STAKES WITH RUBBER TUBING AND FLAGS (SEE GENERAL NOTES FOR STAKING REQUIREMENTS). STAKES ARE TO BE LOCATED WITHIN MULCHING TREE GATOR OR EQUIVALENT PORTABLE GRIP IRRIGATION BAG. NOT REQUIRED IF OPERATIONAL IRRIGATION SYSTEM EXISTS AT TIME OF PLANTING. USE ONLY FROM APRIL 1 TO OCTOBER 31.
- 3" HARDWOOD BARK MULCH. DO NOT PLACE IN CONTACT WITH TREE TRUNK. MAINTAIN MULCH SOIL REMAINS WEED FREE.
- REMOVE TOP HALF OF BURAP AS WELL AS ANY BRIBERS FROM THE TOP OF ROOT BALL.
- FINISHED GRADE
- SPADED BED EDGE
- TOPSOIL
- SCARIFY ALL SIDES OF TREE HAT
- PLACE ROOTBALL ON UNCOMPACTED OR TAMPED NATIVE SOIL



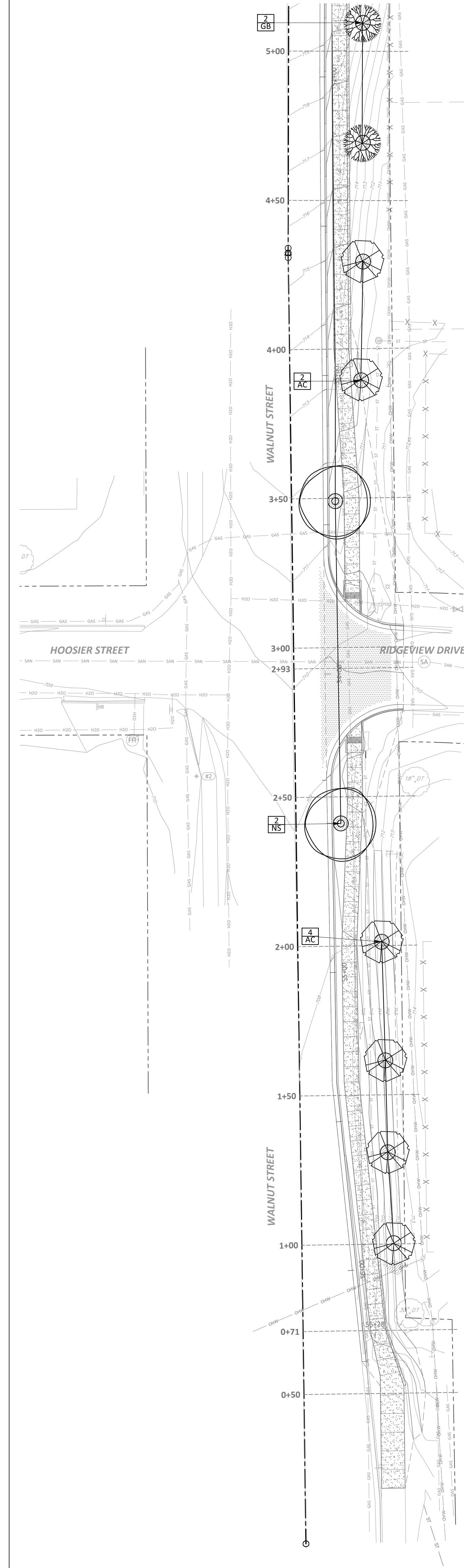
STATION 13+50 to 17+44



STATION 9+00 to 14+00



STATION 4+50 to 9+50



STATION 0+00 to 5+00

GENERAL NOTES

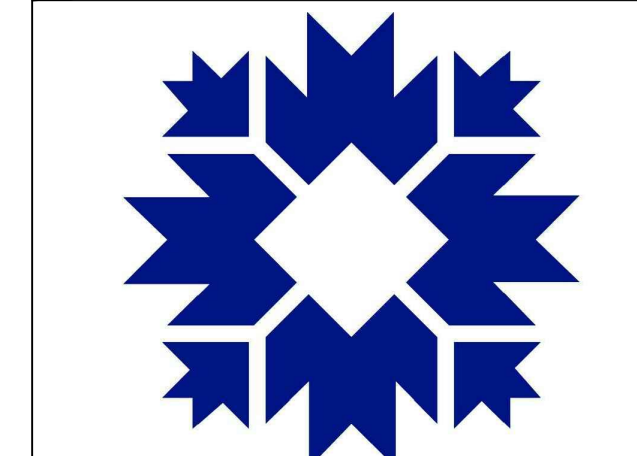
LEGEND

1 GB PLANT QUANTITY/KEY

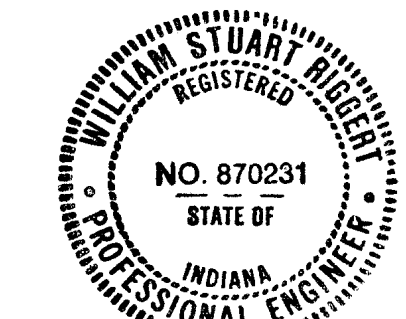


Know what's below.
Call before you dig.
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-382-5544 CALL TOLL FREE
PER INDIANA STATE LAW ICB 3.26
IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING DAYS
BEFORE COMMENCING WORK.

Bledsoe Riggert Cooper James
BRCJ
LAND SURVEYING • CIVIL ENGINEERING • GIS
1351 West Tapp Road Bloomington, Indiana 47403
Phone: 812-336-8277 www.brcjvll.com



CITY OF BLOOMINGTON

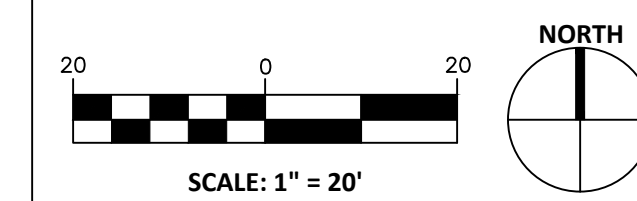


W.S.R.
11-05-2021

**SOUTH WALNUT STREET
SIDEWALK IMPROVEMENTS**
SOUTH WALNUT STREET
BLOOMINGTON, INDIANA

BRCJ Project No: 10525

SITE LANDSCAPE PLAN

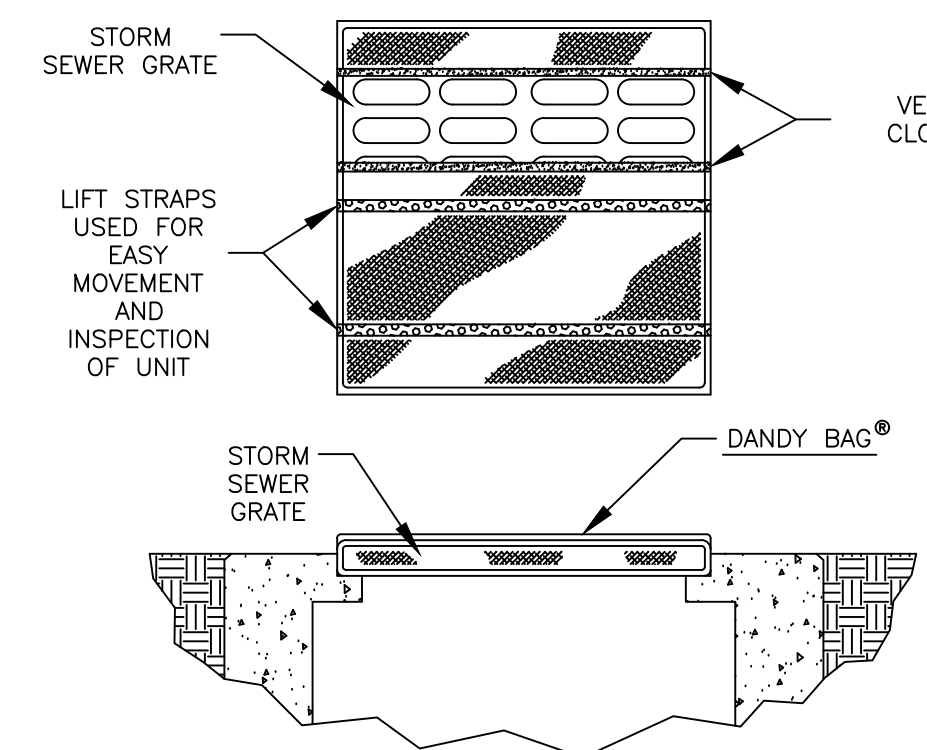
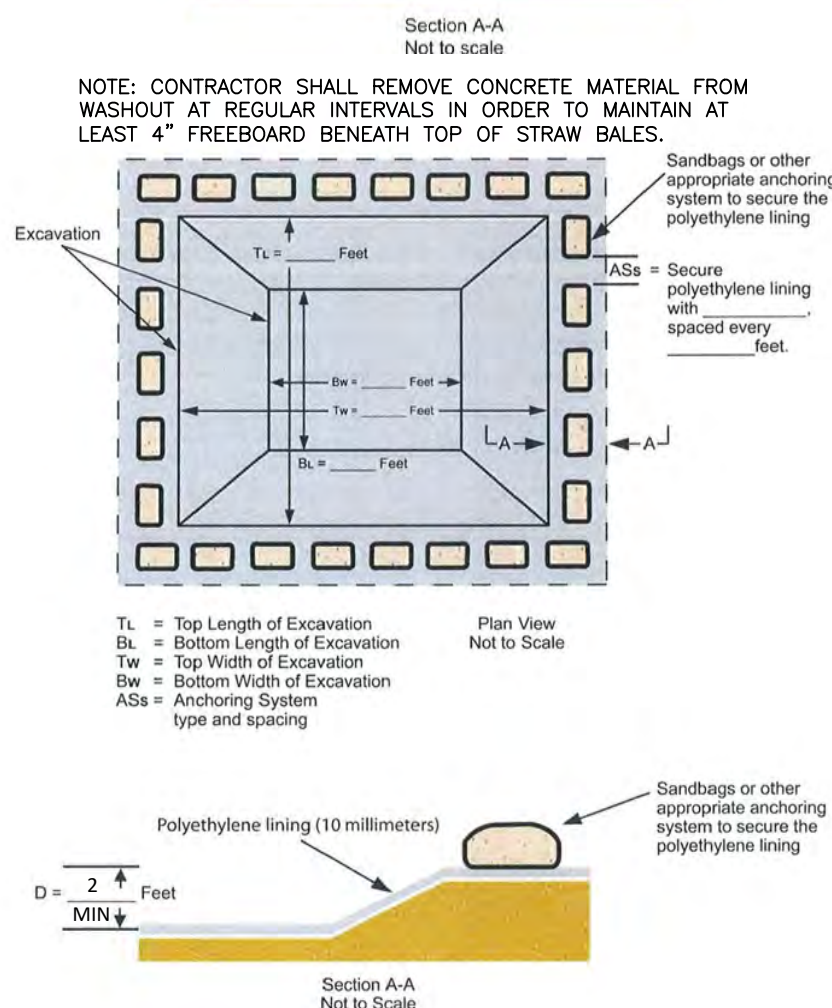
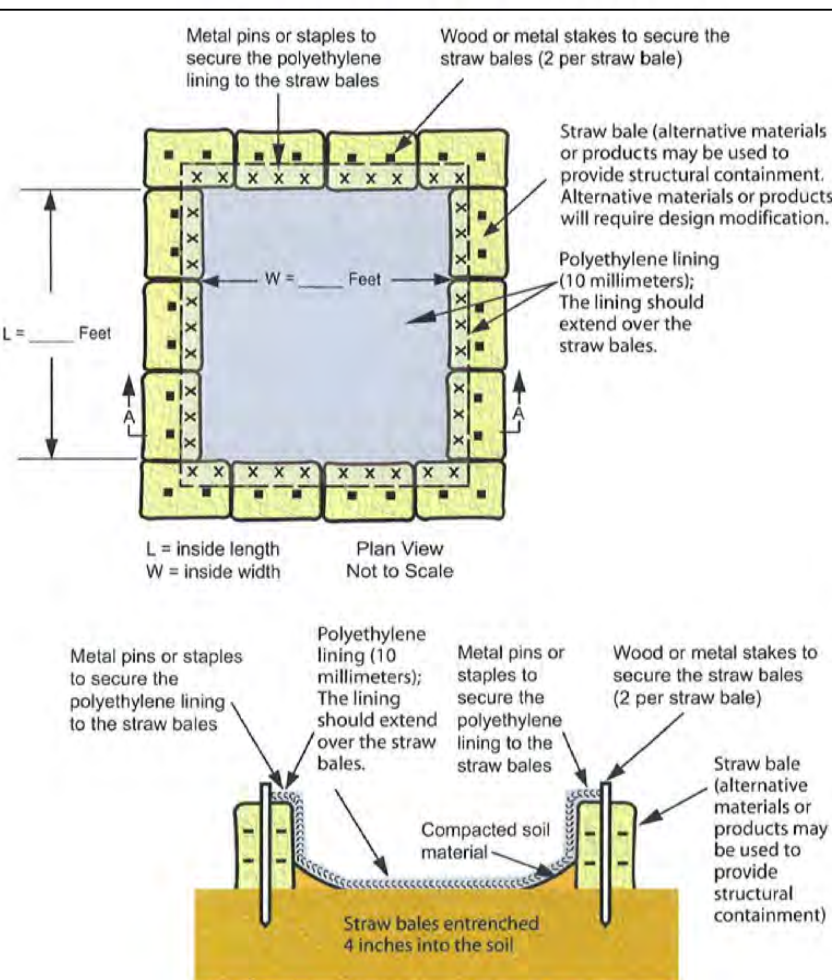


Date: 11-05-2021 Issue: 100% CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
Rev. #	Rev. Description:	Issue Date

Drawn By: DLN
Designed By: DLN
Checked By: WSR

C701



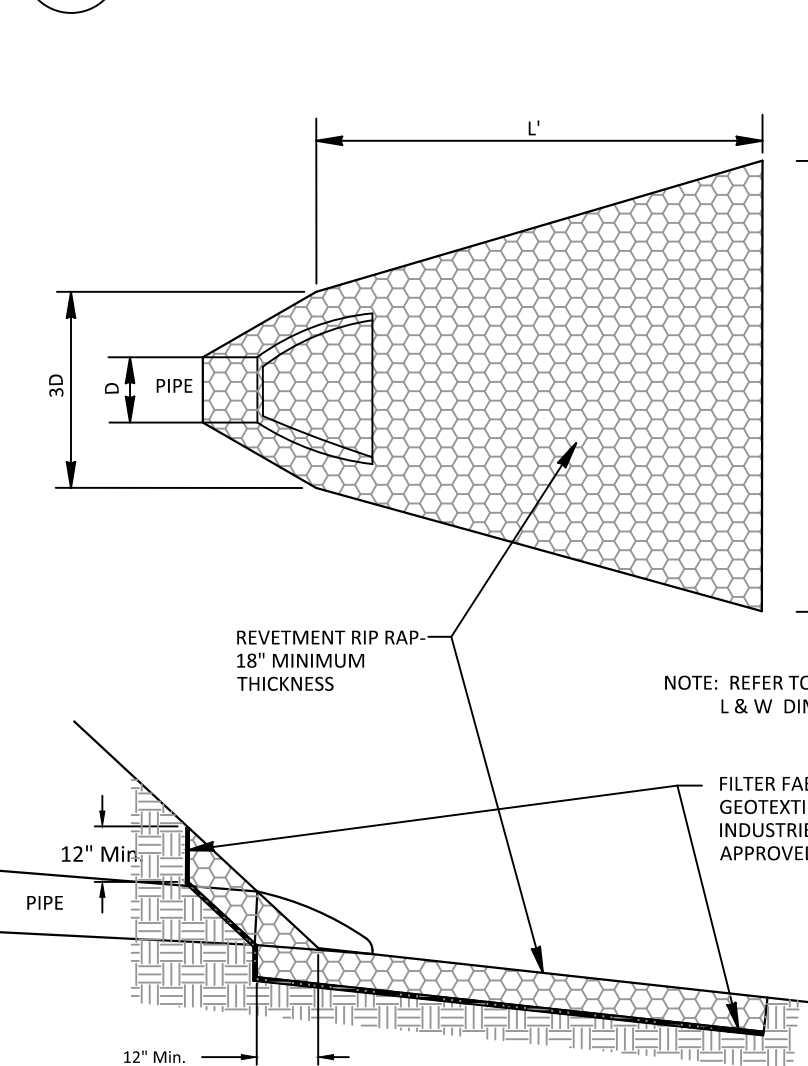
18 INLET PROTECTION

MAXIMUM DISTANCE ABOVE FILTER SOCK FOR MINIMUM FILTER SOCK DIAMETER

SLOPE	8"	10"	12"	14"	16"	18"	24"
2%	18"	18"	18"	18"	18"	18"	18"
3%	18"	18"	18"	18"	18"	18"	18"
4%	18"	18"	18"	18"	18"	18"	18"
5%	18"	18"	18"	18"	18"	18"	18"
6%	18"	18"	18"	18"	18"	18"	18"
7%	18"	18"	18"	18"	18"	18"	18"
8%	18"	18"	18"	18"	18"	18"	18"
9%	18"	18"	18"	18"	18"	18"	18"
10%	18"	18"	18"	18"	18"	18"	18"
11%	18"	18"	18"	18"	18"	18"	18"
12%	18"	18"	18"	18"	18"	18"	18"
13%	18"	18"	18"	18"	18"	18"	18"
14%	18"	18"	18"	18"	18"	18"	18"
15%	18"	18"	18"	18"	18"	18"	18"
16%	18"	18"	18"	18"	18"	18"	18"
17%	18"	18"	18"	18"	18"	18"	18"
18%	18"	18"	18"	18"	18"	18"	18"
19%	18"	18"	18"	18"	18"	18"	18"
20%	18"	18"	18"	18"	18"	18"	18"
21%	18"	18"	18"	18"	18"	18"	18"
22%	18"	18"	18"	18"	18"	18"	18"
23%	18"	18"	18"	18"	18"	18"	18"
24%	18"	18"	18"	18"	18"	18"	18"
25%	18"	18"	18"	18"	18"	18"	18"
26%	18"	18"	18"	18"	18"	18"	18"
27%	18"	18"	18"	18"	18"	18"	18"
28%	18"	18"	18"	18"	18"	18"	18"
29%	18"	18"	18"	18"	18"	18"	18"
30%	18"	18"	18"	18"	18"	18"	18"
31%	18"	18"	18"	18"	18"	18"	18"
32%	18"	18"	18"	18"	18"	18"	18"
33%	18"	18"	18"	18"	18"	18"	18"
34%	18"	18"	18"	18"	18"	18"	18"
35%	18"	18"	18"	18"	18"	18"	18"
36%	18"	18"	18"	18"	18"	18"	18"
37%	18"	18"	18"	18"	18"	18"	18"
38%	18"	18"	18"	18"	18"	18"	18"
39%	18"	18"	18"	18"	18"	18"	18"
40%	18"	18"	18"	18"	18"	18"	18"

NOTES: Install perpendicular to flow, and stake at 10-foot intervals. The beginning and end of the installation should point slightly up the slope, creating a J shape at each end to contain runoff and prevent it from flowing around the ends of the sock. Accumulated sediment should be removed, or a new sock installed, when it reaches approximately one-third of the sock diameter. If sediment flows are expected to be significant, the sock should be installed in two sections. If sediment flows are expected to be significant, the sock should be installed in two sections. If sediment flows are expected to be significant, the sock should be installed in two sections.

20 CONCRETE WASHOUT



19 RIPRAP OUTFALL/END SECTION



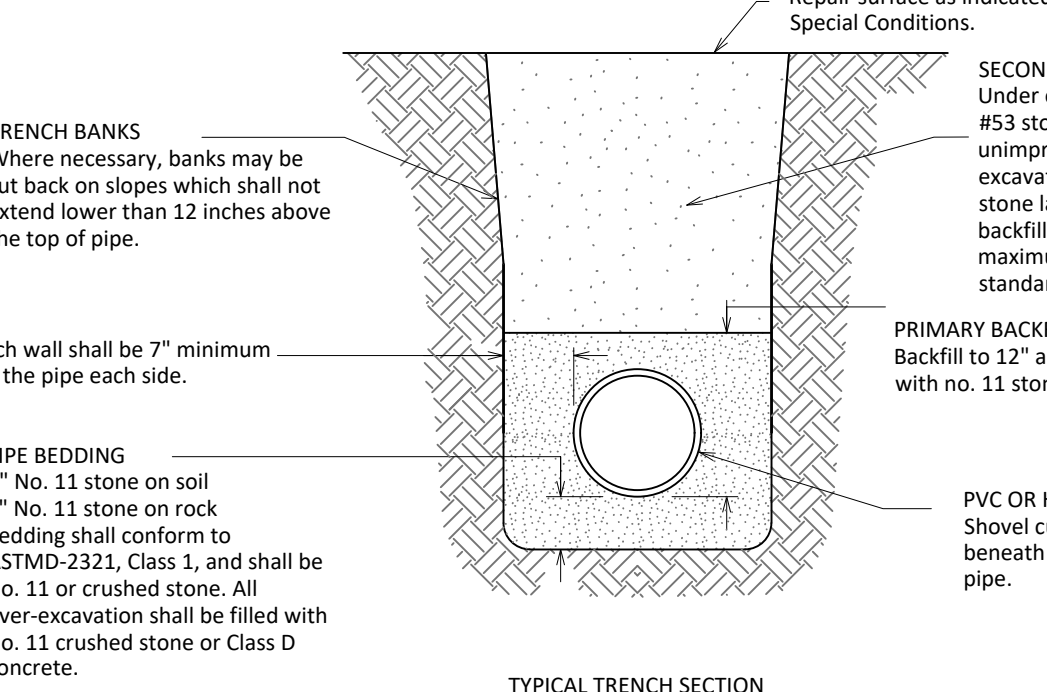
MANHOLE DIAMETER DETERMINATION TABLE

PIPE SIZE	PIPES ENTERING OR LEAVING AT A 0-45 DEGREE ANGLE	PIPES ENTERING OR LEAVING AT A 45-90 DEGREE ANGLE
12\"-24\"	48"	48"
24\"	48"	48"
27\"-30\"	60"	60"
33\"-36\"	60"	72"

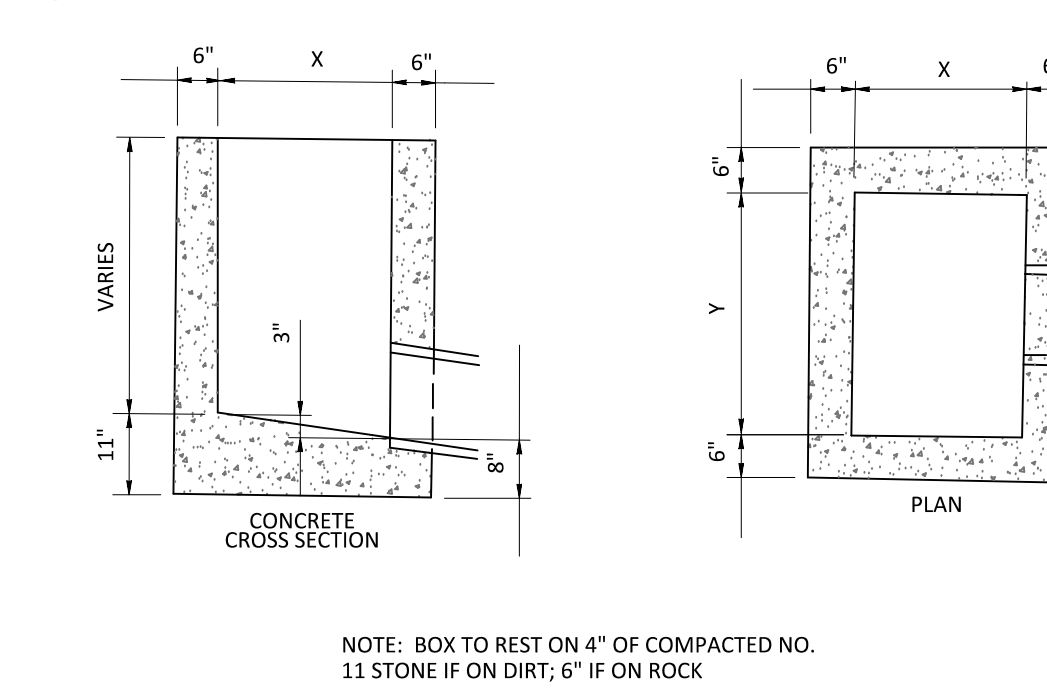
15 STANDARD STORM MANHOLE

EXCAVATION DEPTH
When pipe grades are not defined on the contract drawings, maintain a minimum of 48 inches of cover over the top of the pipe except as otherwise ordered by the Engineer.

TRENCH SAFETY SYSTEMS
All trench work shall be in compliance with OSHA Part 26 of the Code of Federal Regulations.



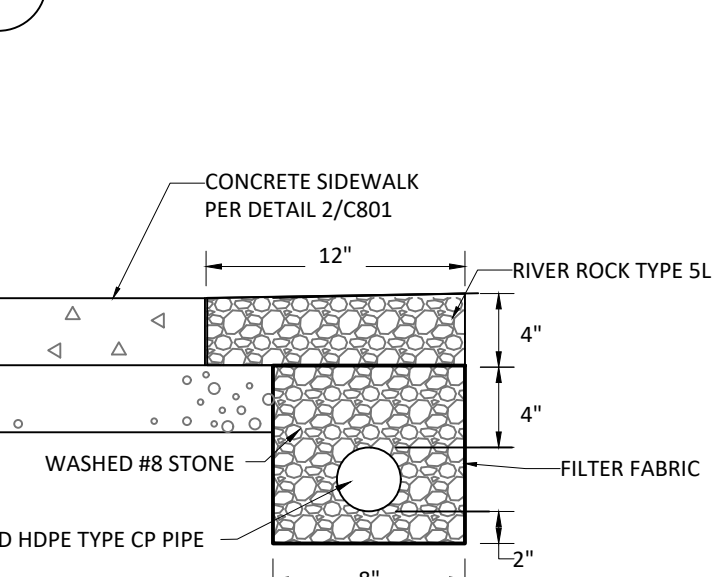
16 BEDDING AND BACKFILL FOR PVC AND HDPE PIPE



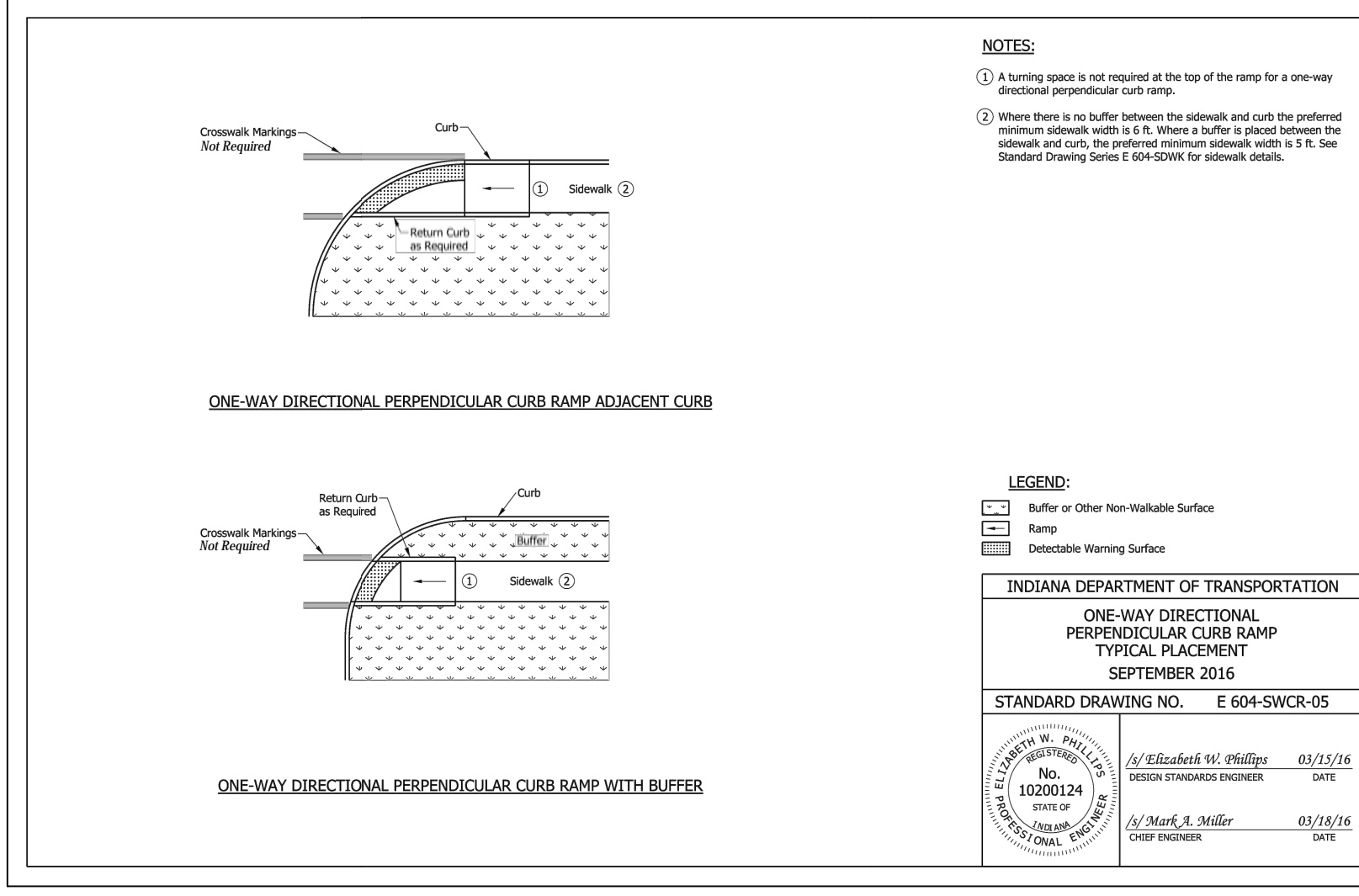
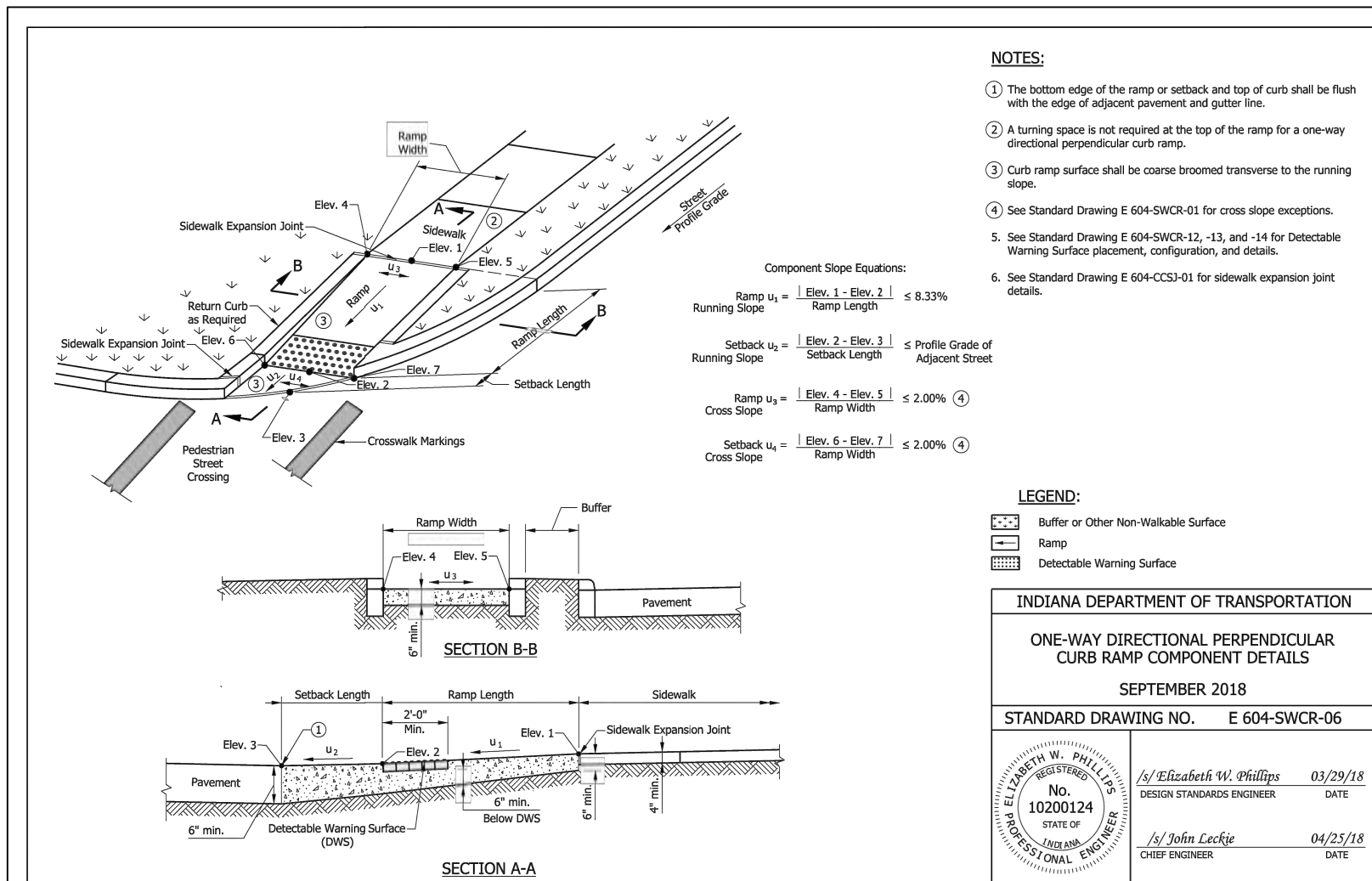
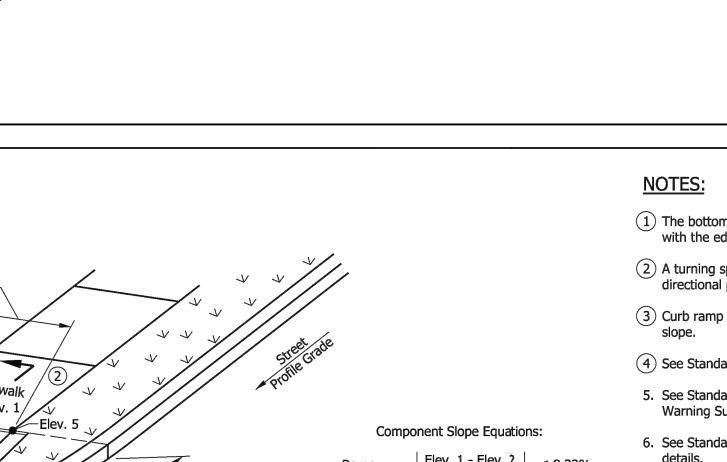
NOTE: BOX TO REST ON 4\"/>

TYPE	X	Y
A	24"	24"
B	20"	42"
C	30"	48"
E	30"	30"
J	24"	36"

14 STORM INLET DETAIL

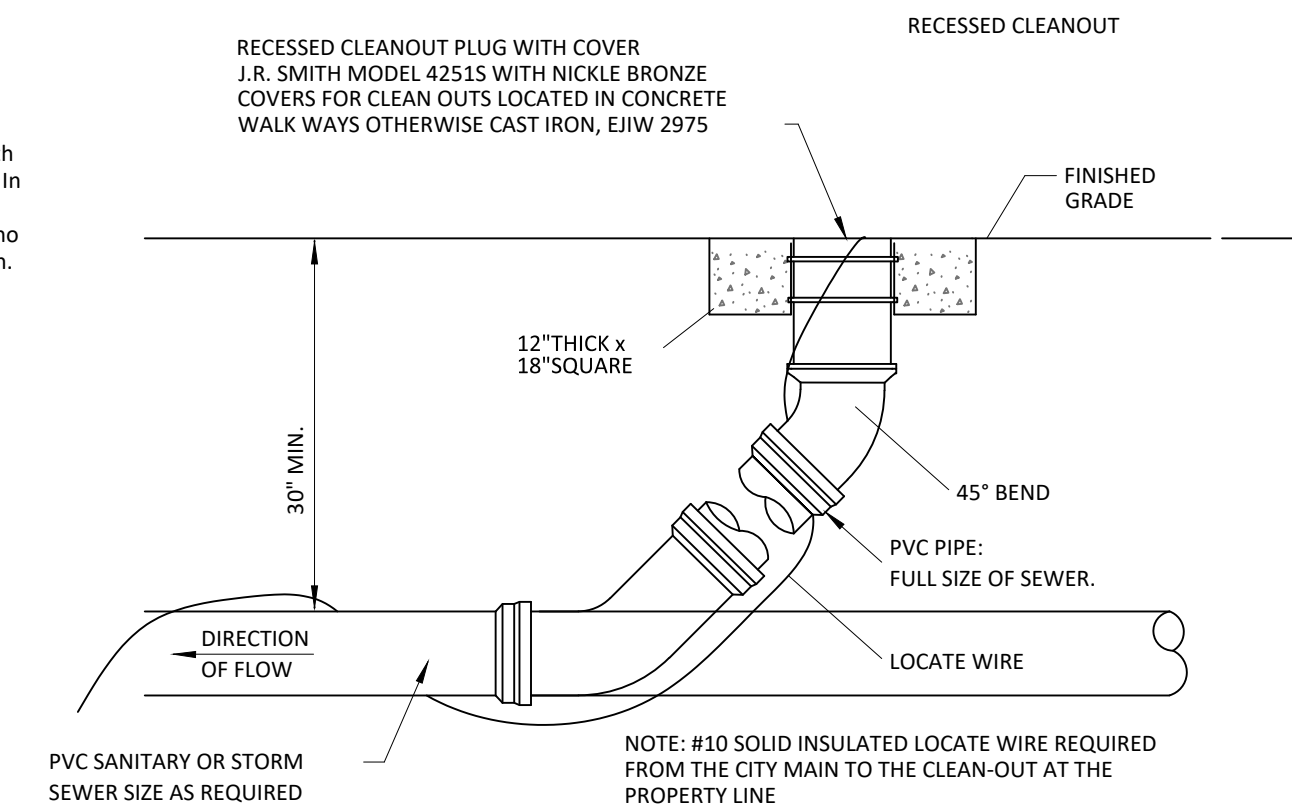


12 UNDERDRAIN DETAIL

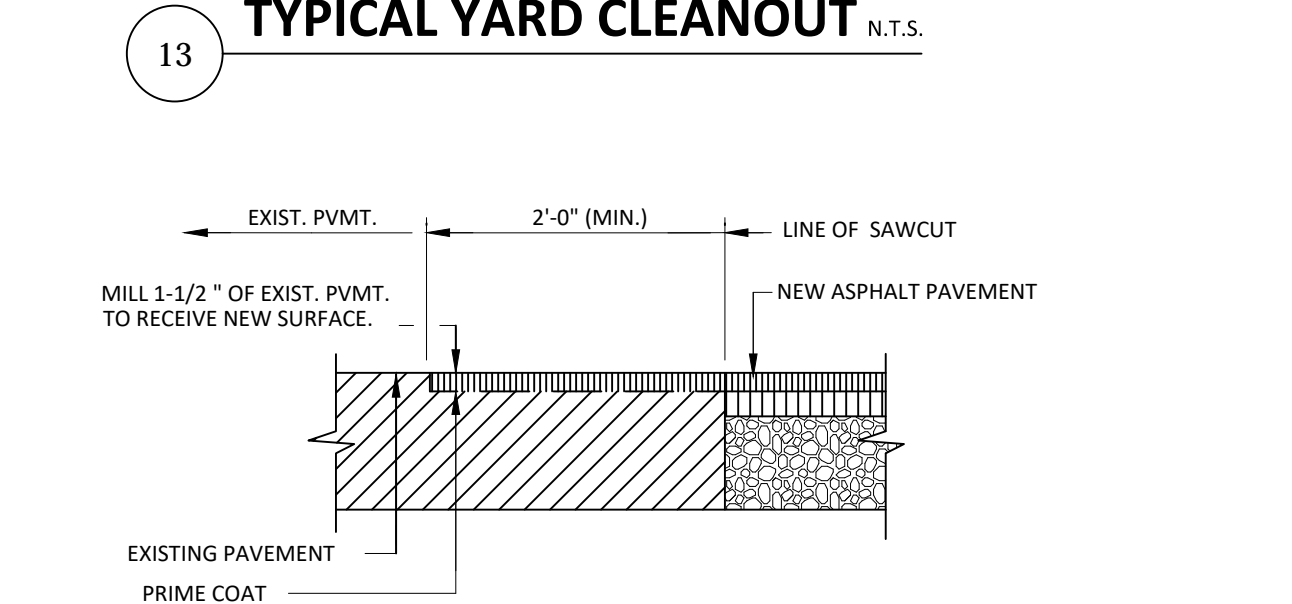


11 INDOT STANDARD CURB RAMP DETAILS

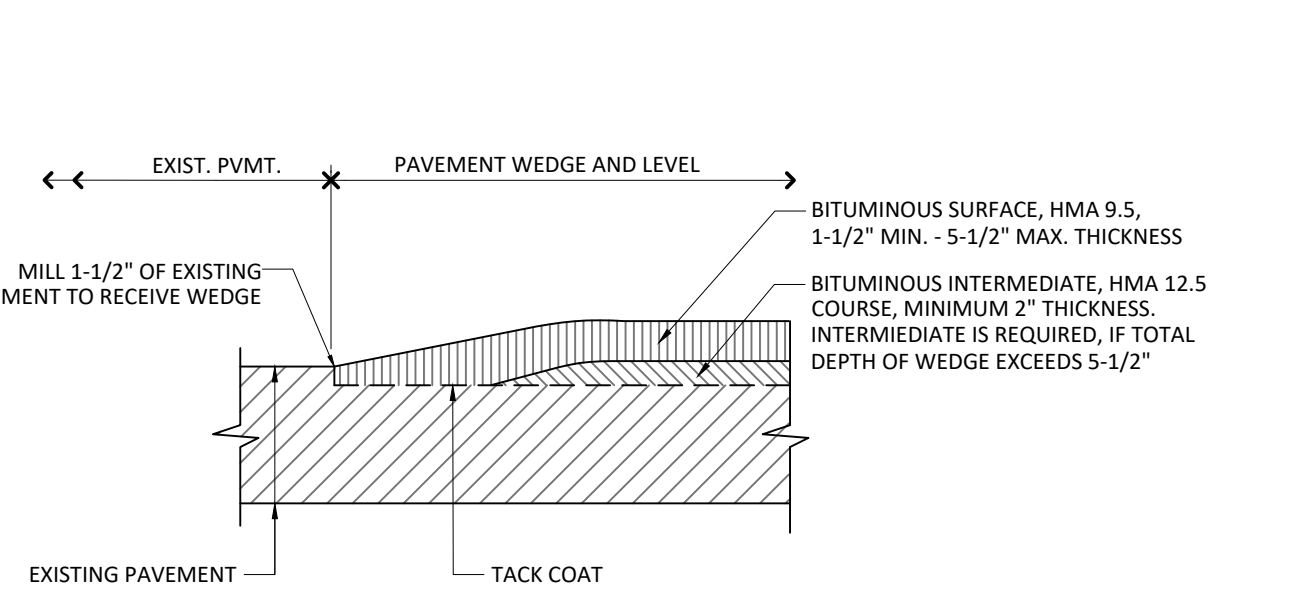
NOTE: DETECTABLE WARNINGS ARE REQUIRED AND SHALL COMPLY WITH CITY OF BLOOMINGTON DETECTABLE WARNING MATERIALS REQUIREMENTS



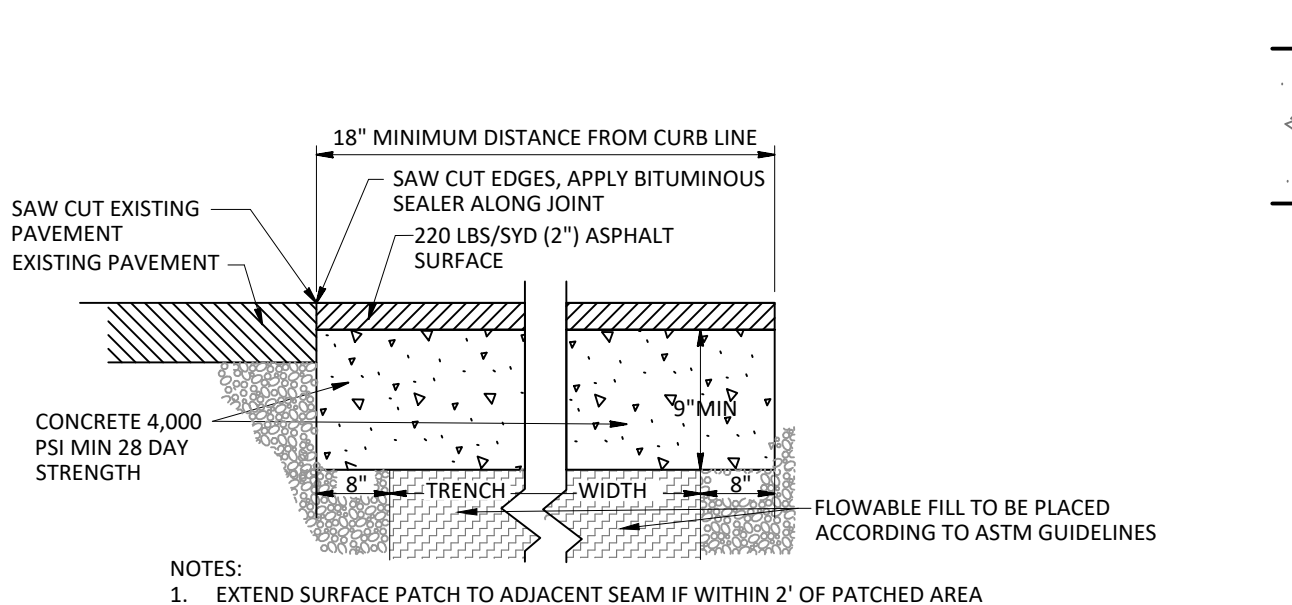
13 TYPICAL YARD CLEANOUT



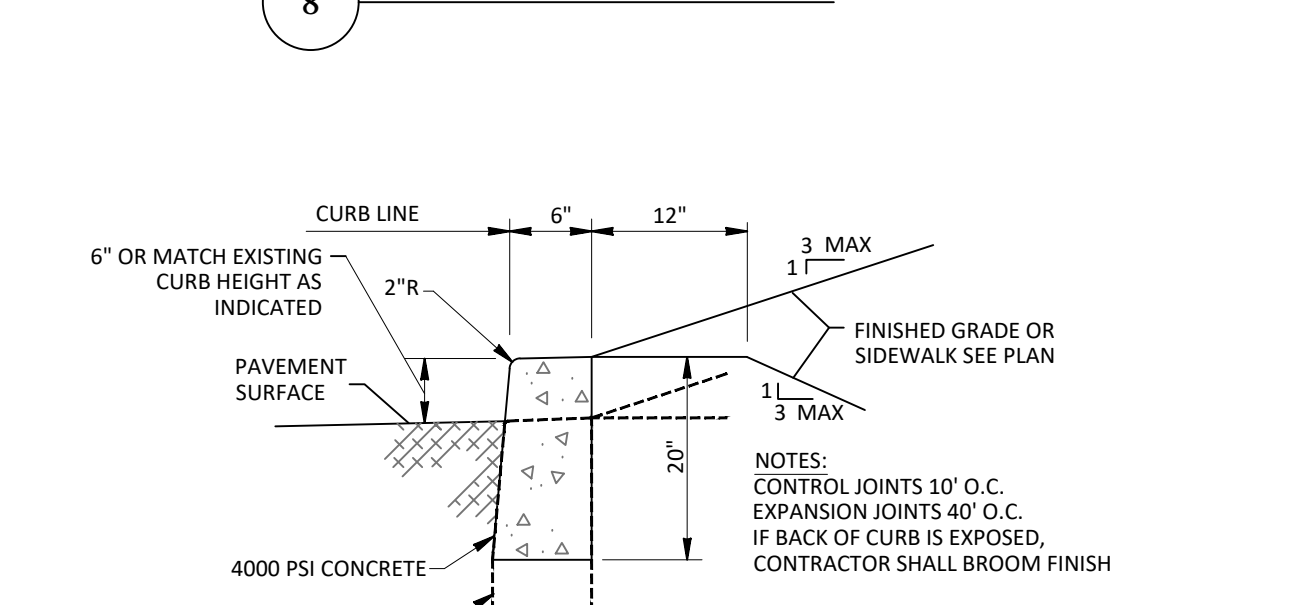
10 NEW PAVEMENT TO EXISTING PAVEMENT



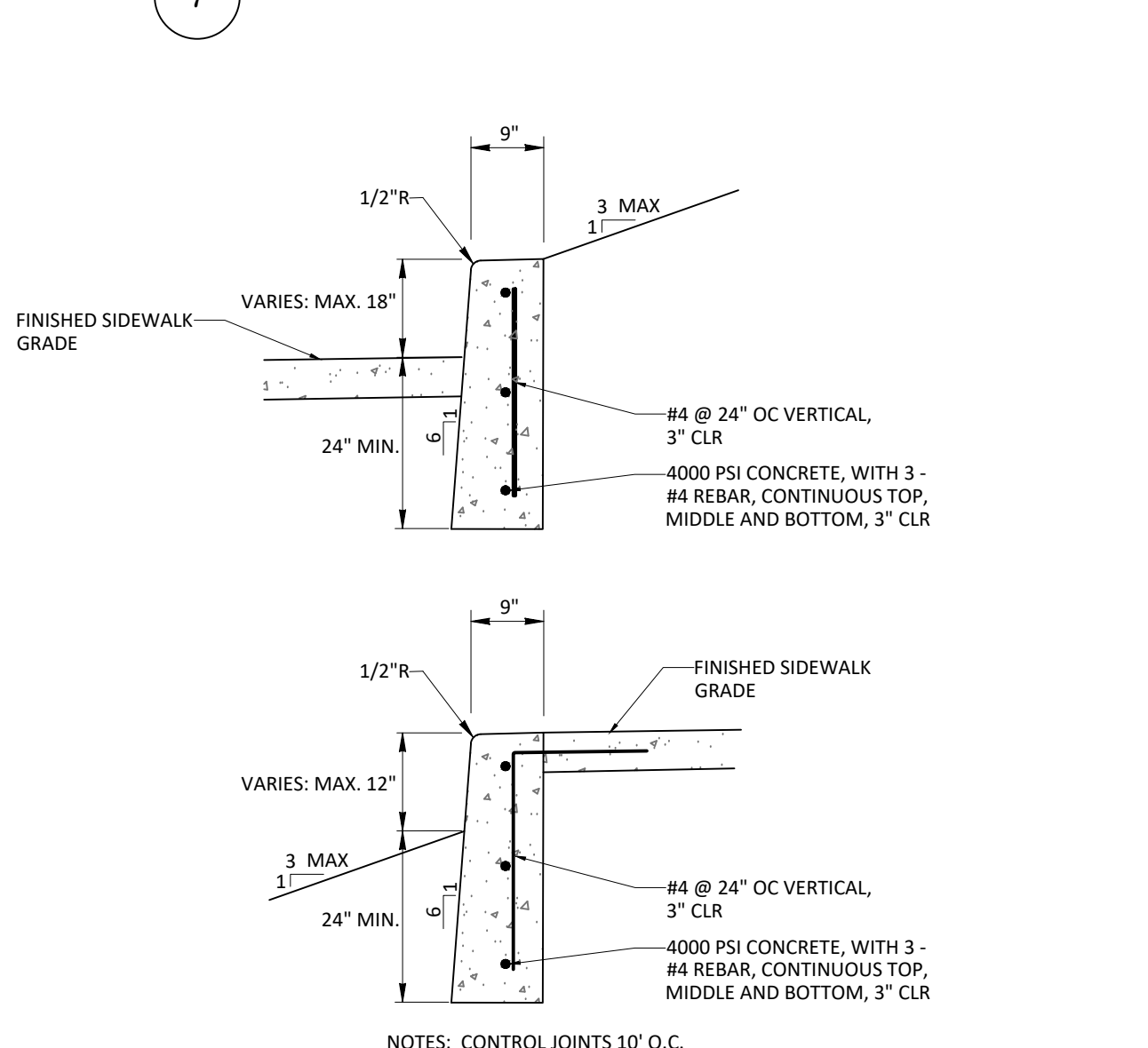
9 BITUMINOUS WEDGE AND LEVEL



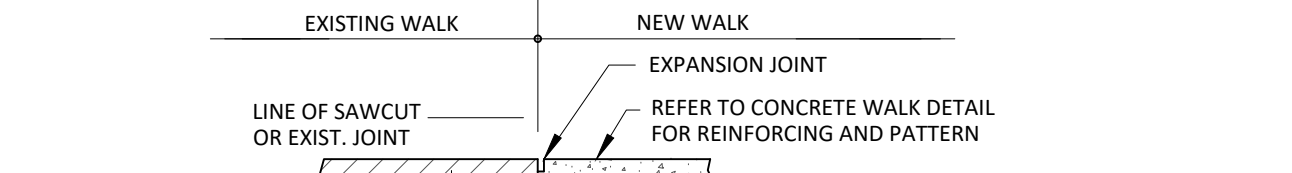
8 PAVEMENT PATCH



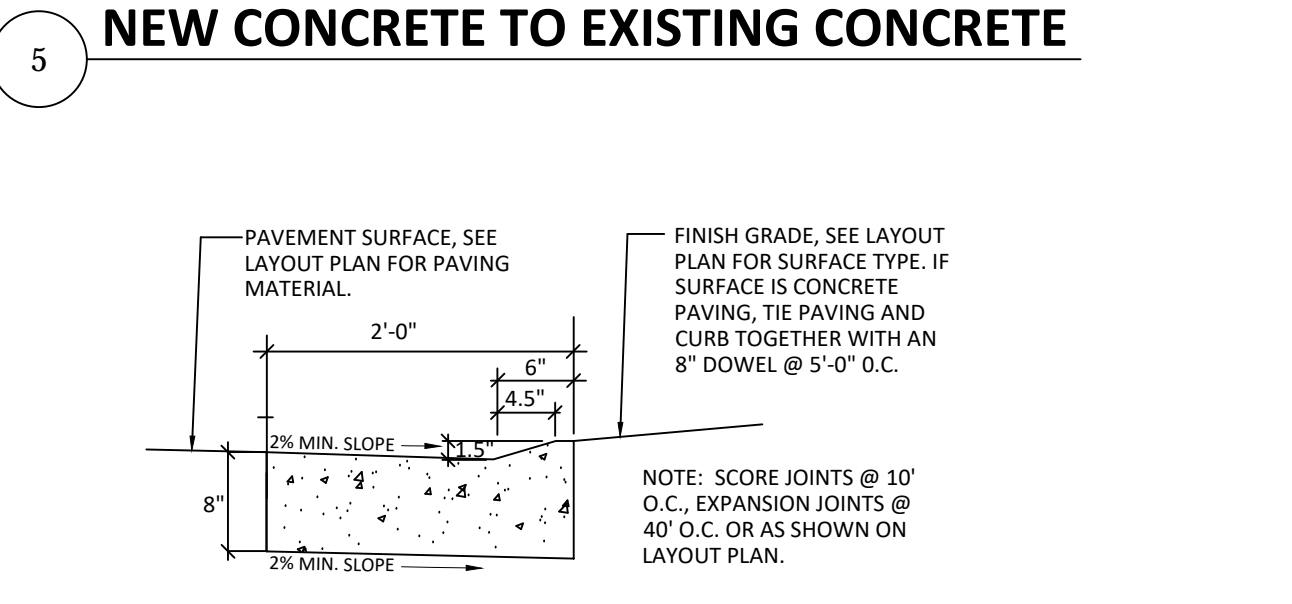
7 STANDING CONCRETE CURB



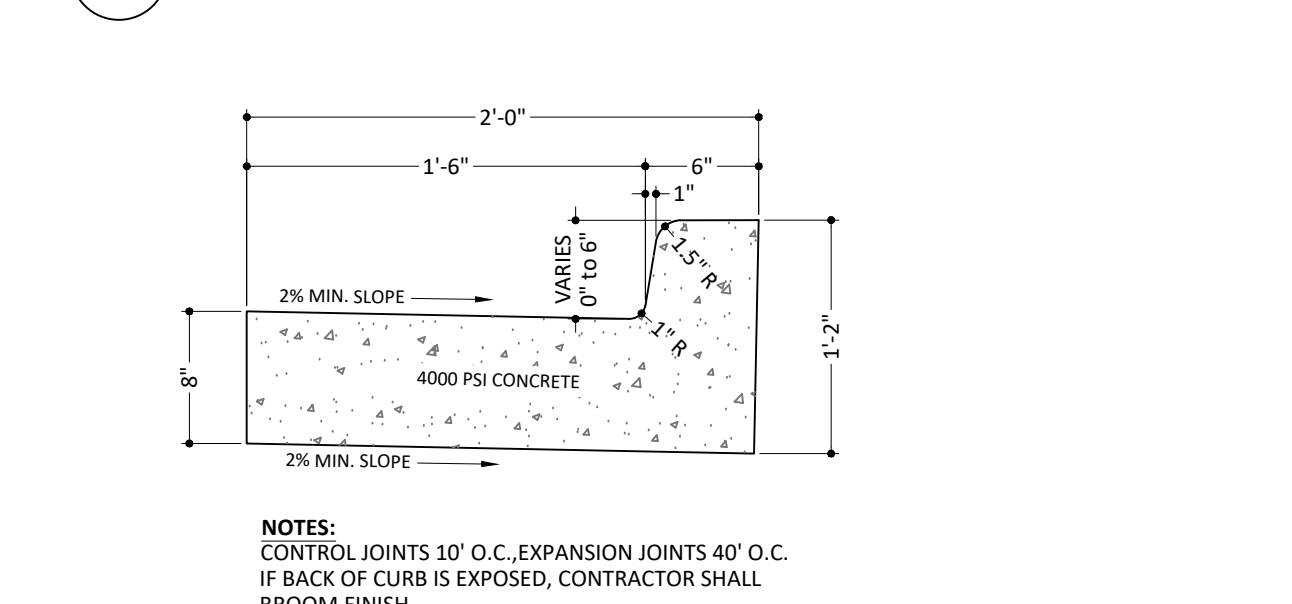
6 TALL STANDING CONCRETE CURB



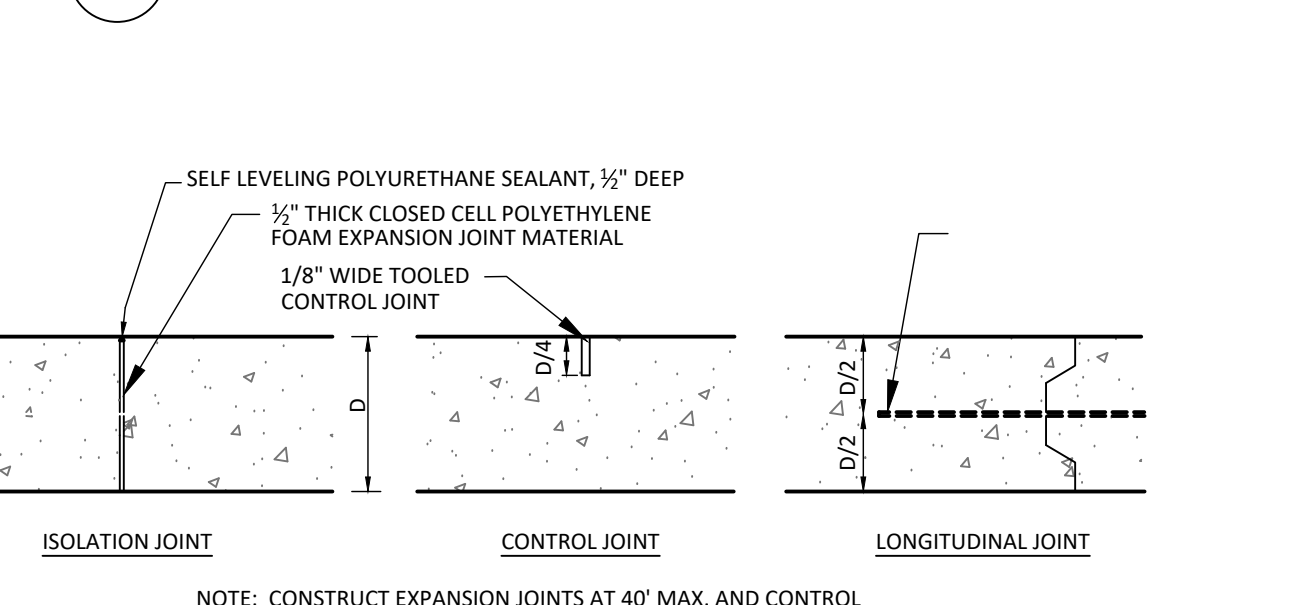
5 NEW CONCRETE TO EXISTING CONCRETE



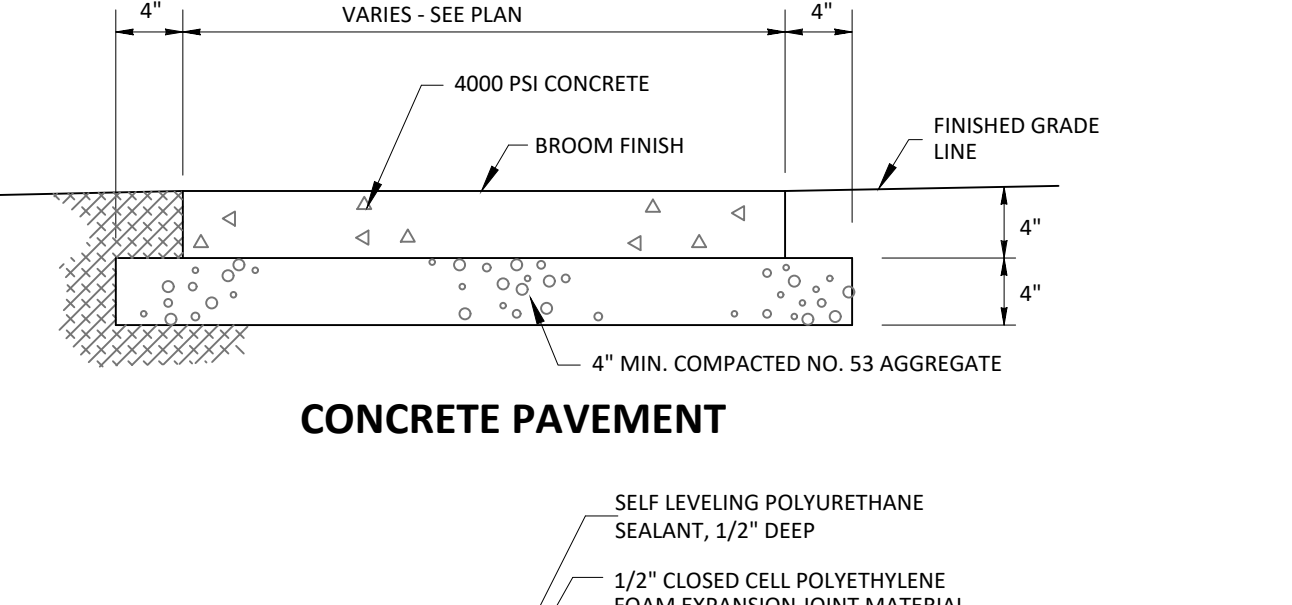
4 MOUNTABLE CURB AND GUTTER



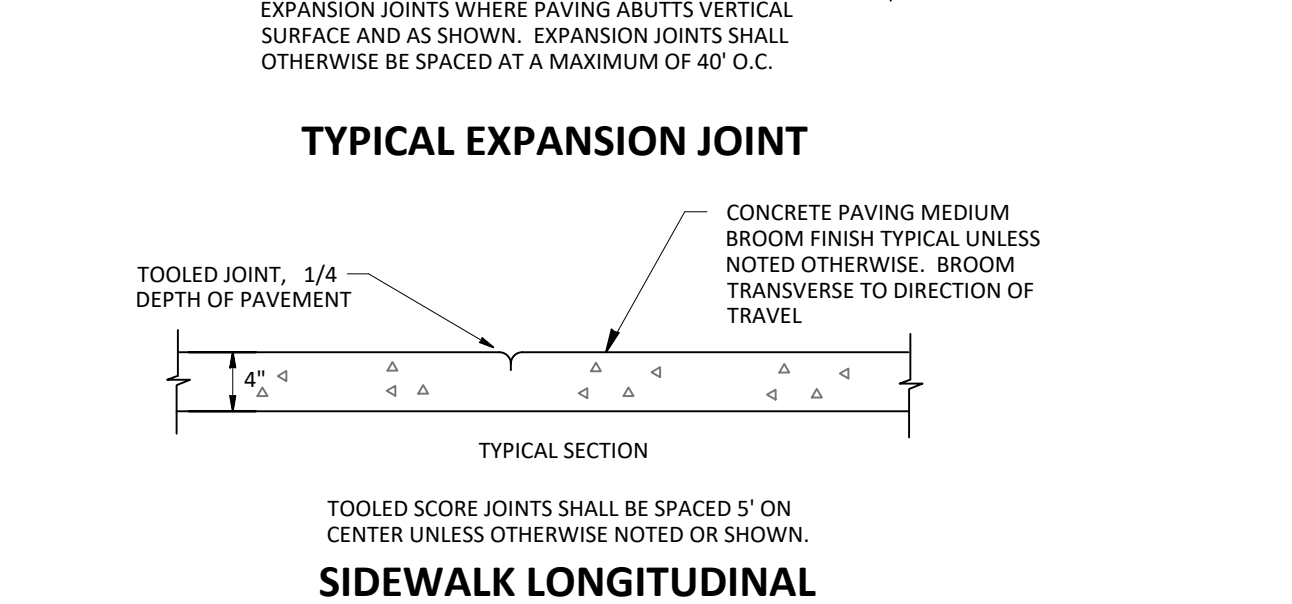
3 COMBINED CURB AND GUTTER



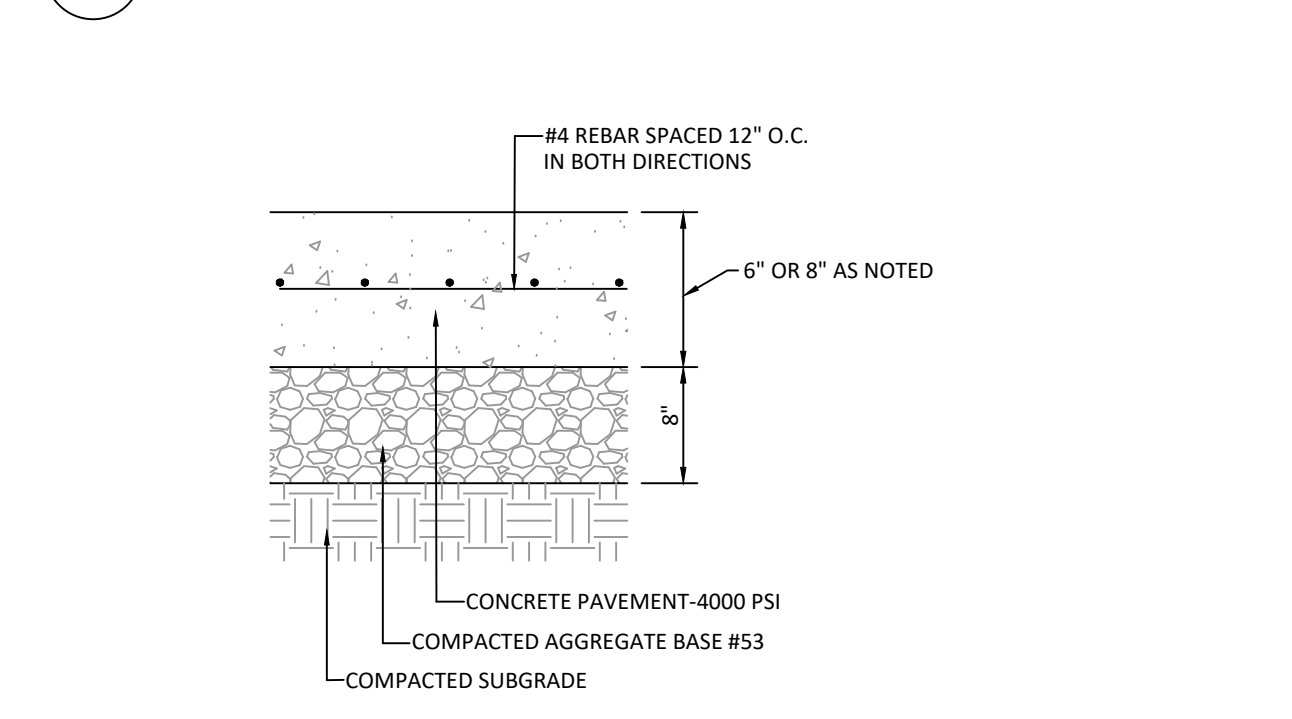
CONCRETE JOINT DETAILS



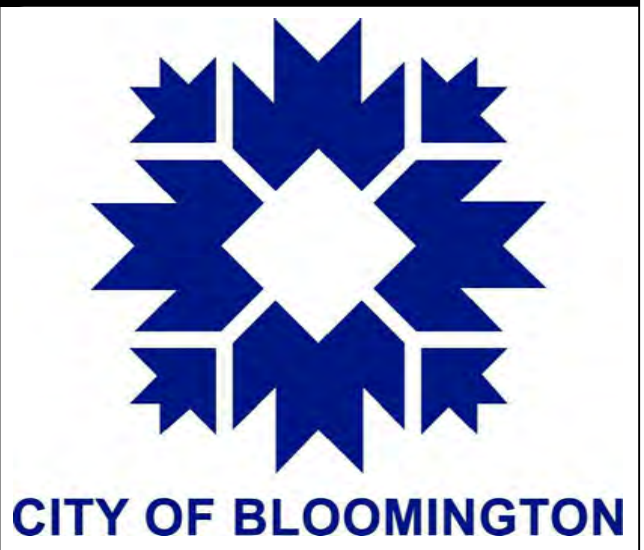
CONCRETE PAVEMENT



2 STANDARD DUTY CONCRETE PAVEMENT



1 HEAVY DUTY CONCRETE PAVEMENT



SOUTH WALNUT STREET SIDEWALK IMPROVEMENTS
SOUTH WALNUT STREET BLOOMINGTON, INDIANA

BRCJ Project No: 10525

SITE DETAILS

SCALE: NOT TO SCALE

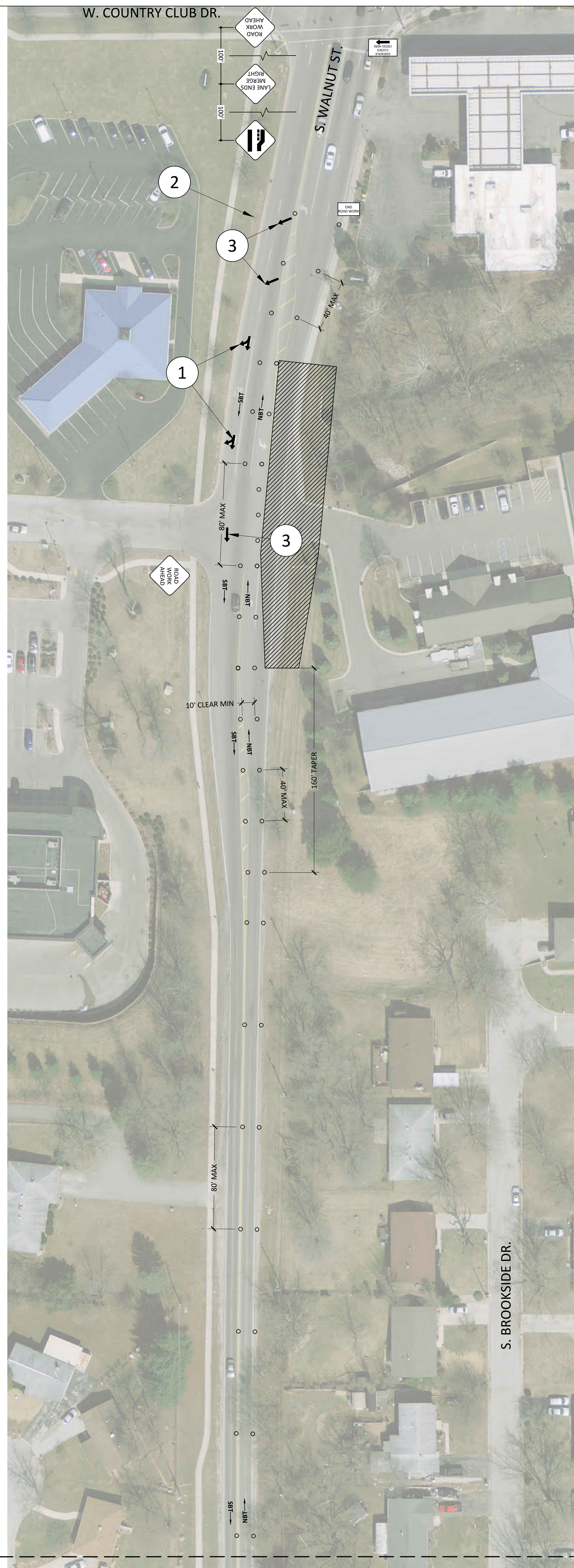
Date: 11-05-2021 Issue: 100% CONSTRUCTION DOCUMENTS

REVISION SCHEDULE

Rev. #	Rev. Description:	Issue Date

Drawn By: DLN
Designed By: DLN
Checked By: WSR

C801



PHASE 1 MAINTENANCE OF TRAFFIC PLAN - NORTH N.T.S.



PHASE 1 MAINTENANCE OF TRAFFIC PLAN - SOUTH N.T.S.

GENERAL NOTES

- CONTRACTOR SHALL PROVIDE ADVANCE WARNING SIGNAGE, BARRICADES AND FLAGGERS AS REQUIRED WHEN WORKING ALONG, NEAR, OR WITHIN THE CITY OF BLOOMINGTON'S STREETS AND ALLEYS. ALL TRAFFIC CONTROLLING AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND BE INSTALLED FOR A MINIMUM OF SEVEN (7) WORKING DAYS PRIOR TO CLOSING ANY STREET, ALLEY OR PORTION THEREOF. THE CONTRACTOR SHALL CONTACT THE CITY OF BLOOMINGTON ENGINEERING DEPARTMENT AT (812) 349-3913 TO MAKE NECESSARY ARRANGEMENTS.
- TRENCHES SHALL BE FILLED DAILY OR COVERED WITH METAL PLATES TO PREVENT ACCESS DURING NON-WORK HOURS.
- WHERE ADEQUATE SHOULDER CONDITIONS EXIST, SOUTH OF RIDGEVIEW DRIVE, AND NORTH OF STA 11+00, CONTRACTOR IS ADVISED TO REDUCE THE DURATION OF THE DETOUR BY SHIFTING SOUTHBOUND TRAFFIC ONTO THE SHOULDER, AND TEMPORARILY MOVING THE CENTERLINE TO THE WEST TO ALLOW NORTHBOUND TRAFFIC ONTO S. WALNUT STREET.
- CHANNELIZATION DRUM SPACING IS 40' MAX IN TAPER CHANNELIZATION AND 80' MAX IN TANGENT CHANNELIZATION.

PLAN NOTES

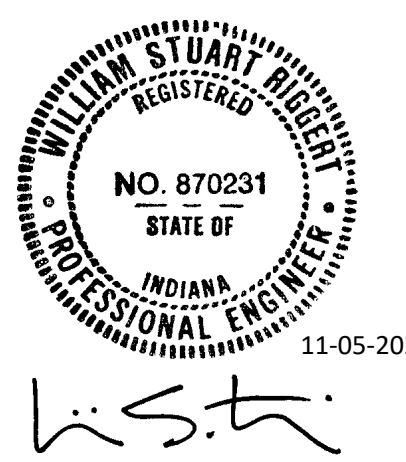
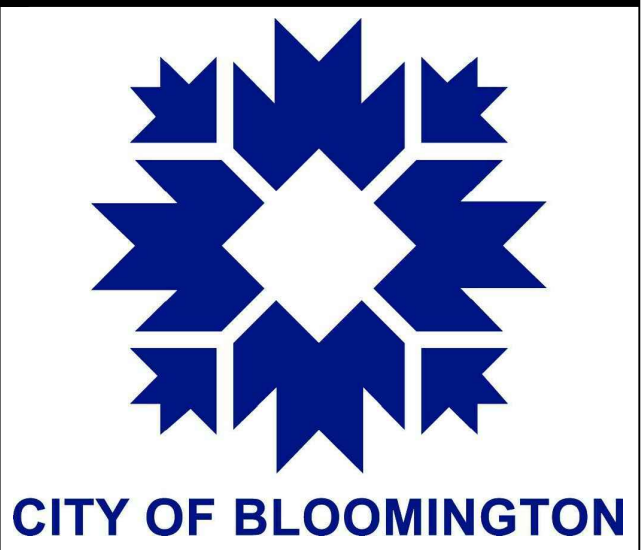
- TEMPORARY PAVEMENT MARKING - ADD STRAIGHT ARROW TO TURN RIGHT ONLY ARROW WITH PAVEMENT MARKING TAPE - REFER TO PAVEMENT MARKING KEY
- PLACE BAG OVER "RIGHT LANE MUST TURN RIGHT" SIGN FOR THE DURATION OF TRAFFIC PATTERN ADJUSTMENT.
- TEMPORARY PAVEMENT MARKING - PAVEMENT MARKING TAPE, DIRECTIONAL ARROW FOR SOUTHBOUND TRAFFIC.

PAVEMENT MARKING KEY



LEGEND

- ◇ CONSTRUCTION SIGN - SHAPE PER MUTCD
- BARRICADE - INDOT TYPE III
- ▨ PROJECT WORK SITE
- CHANNELIZATION DRUM - INDOT STANDARD
- NB NORTH BOUND TRAFFIC
- SB SOUTHBOUND TRAFFIC



**SOUTH WALNUT STREET
SIDEWALK IMPROVEMENTS**
SOUTH WALNUT STREET
BLOOMINGTON, INDIANA
BRCJ Project No: 10525
**MAINTENANCE OF
TRAFFIC PLAN - PHASE 1**

Date: 11-05-2021 Issue: 100% CONSTRUCTION DOCUMENTS

REVISION SCHEDULE		
Rev. #	Rev. Description:	Issue Date

Drawn By: BDB
Designed By: AEK
Checked By: WSR

C901

