

SALEM & IRBY

ROUNDAABOUT CONSTRUCTION

CONWAY, ARKANSAS

CONSTRUCTION PACKAGE

REVISIONS

NO.	DESCRIPTION	DATE

VICINITY MAP



N.T.S

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SALEM & IRBY
 ROUNDAABOUT CONSTRUCTION
 CONWAY, ARKANSAS

JOB NUMBER: 18-150
 DRAWN BY: KJJ
 CHECKED BY: BFV3
 DATE: 3/16/20
 SCALE: N/A

DATE: MARCH 16, 2020
 JOB#: 18-150

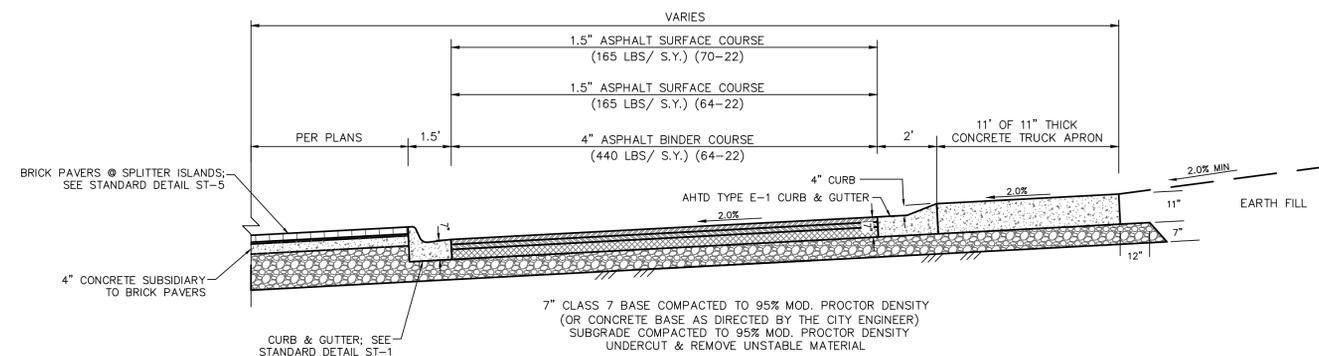
CONWAY TRANSPORTATION DEPARTMENT
 100 E. ROBINS STREET STREET CONWAY, ARKANSAS
 PH: 501.450.6165 FAX: 501.513.3566

COVER

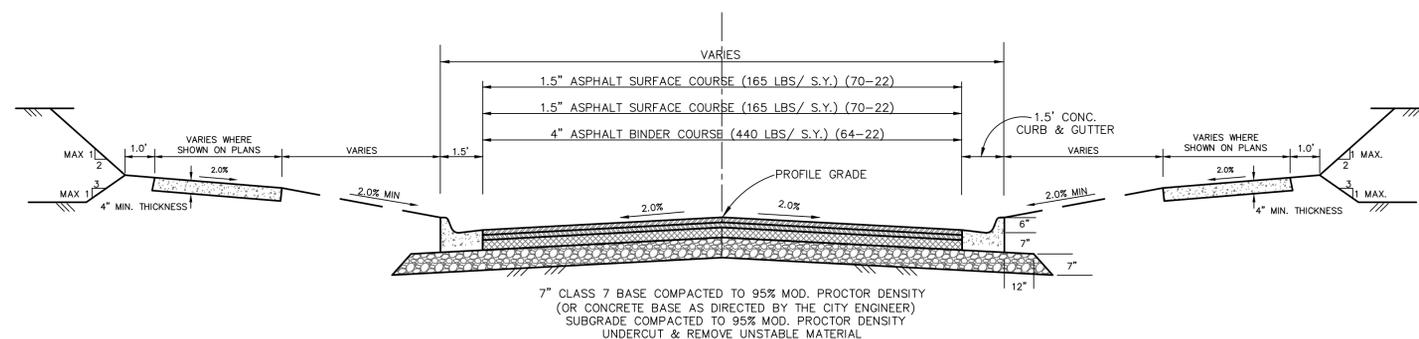
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TYPICAL ROUNDABOUT SECTION



TYPICAL STREET SECTION

NOTES:

- CITY OF CONWAY STANDARD DETAILS FOR ROADWAY AND DRAINAGE CONSTRUCTION ARE LOCATED ON THE STREET & ENGINEERING DEPARTMENT WEB PAGE.
- ALL CONSTRUCTION & MATERIALS SHALL COMPLY WITH THE ARKANSAS HIGHWAY & TRANSPORTATION DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2014 EDITION, UNLESS OTHERWISE NOTED.
- IRRIGATION SLEEVING SHALL BE INSTALLED PRIOR TO THE PLACEMENT OF ROADWAY BASE COURSE. IRRIGATION DESIGN AND LOCATION INFORMATION SHOULD BE OBTAINED FROM IRRIGATION PLANS, BY OTHERS.
- PAVEMENT SECTION THICKNESS SUBJECT TO CHANGE AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER AND APPROVAL BY THE CITY ENGINEER.
- CONSTRUCT MODULAR BLOCK WALLS IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS.

SHARED USE PATH REQUIREMENTS:

- ALL WORK SHALL COMPLY WITH SECTION 633 OF THE AHTD STANDARD SPECIFICATIONS.
- EXPANSION MATERIAL SHALL BE REQUIRED AT 50 FT. MAXIMUM SPACING.
 - SHARED USE PATH SHALL HAVE SAW CUT TRANSVERSE JOINTS AT INTERVALS EQUAL TO THE WIDTH OF THE SIDEWALK. TOGGLED JOINTS WILL NOT BE PERMITTED.
 - EXPANSION JOINT MATERIAL SHALL BE PRE-FORMED ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO AASHTO M-213. EXPANSION JOINT MATERIAL SHALL BE LEFT 1/2" LOWER AND FILLED WITH SILICONE SEALER TO FINISH GRADE.
 - ALL COLD JOINTS AND SAW CUT JOINTS SHALL BE FILLED TO FINISH GRADE WITH JOINT SEALANT.
 - ALL SIDEWALKS SHALL HAVE 1/2" ROLLED EDGES AND BROOM FINISH.
 - SHARED USE PATHS SHALL BE PLACED ON 4" CLASS 7 BASE COMPACTED TO 95% MODIFIED PROCTOR DENSITY UNLESS OTHERWISE NOTED.
 - ALL SHARED USE PATHS REQUIRE INSPECTION BEFORE AND AFTER CONCRETE PLACEMENT. SIDEWALKS WILL BE INSPECTED FOR ADA REQUIREMENTS & WORKMANSHIP.

GENERAL CONSTRUCTION REQUIREMENTS:

- THE STREET DEPARTMENT SHALL BE NOTIFIED 24 HOURS PRIOR TO PLACEMENT OF ANY FILL MATERIAL. INSTALLATION OF STORM DRAINAGE PIPE OR DRAINAGE STRUCTURES, CONCRETE CURB & GUTTER, PLACEMENT OF CRUSHED STONE OR ASPHALT. THE SUBGRADE SHALL BE APPROVED BY THE CONWAY STREET DEPARTMENT PRIOR TO PLACEMENT OF CURB AND GUTTER OR CRUSHED STONE.
- EARTHWORK EQUIPMENT SHALL INCLUDE AN APPROPRIATE SIZE VIBRATORY SHEEP'S FOOT COMPACTOR, WATER TRUCK AND MOTOR PATROL.
- ALL FILL MATERIAL PLACED WITHIN THE LIMITS OF THE STREET (BACK OF CURB TO BACK OF CURB) SHALL BE PLACED IN LIFTS NOT EXCEEDING 8" AND EACH LIFT COMPACTED WITH A SHEEP'S FOOT ROLLER (COMPACTION WITH TRACK EQUIPMENT OR OTHER EQUIPMENT NOT SPECIFICALLY DESIGNED FOR EARTHWORK COMPACTION IS NOT SUITABLE) TO 95% MODIFIED PROCTOR DENSITY. FILL MATERIAL SHALL BE APPROVED BY THE CONWAY STREET DEPARTMENT PRIOR TO USE IN STREET FILLS (NO TOP SOIL OR ORGANIC MATERIAL SHALL BE INCLUDED IN THE FILL MATERIAL). THE MOISTURE CONTENT OF THE FILL MATERIAL SHALL BE PLUS OR MINUS 3% OF OPTIMUM. ALL EARTHWORK SHALL CONFORM TO THE REQUIREMENTS OF SECTIONS 210 AND 212 OF ARKANSAS STATE HIGHWAY DEPARTMENT'S "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION".
- THE SUBGRADE (BACK OF CURB TO BACK OF CURB) SHALL BE PREPARED IN ACCORDANCE WITH SECTION 212 OF THE ARKANSAS STATE HIGHWAY DEPARTMENT'S "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION". PRIOR TO PLACEMENT OF THE CRUSHED STONE BASE COURSE THE SUBGRADE MUST BE VERIFIED TO CONFORM TO THE PROPER SHAPE AND GRADE AND MUST FIELD DEMONSTRATE THAT IT IS FIRM AND UNYIELDING TO THE PASSAGE OF EQUIPMENT OVER THE SUBGRADE.
- ALL STORM DRAINAGE PIPE SHALL BE RCP CLASS III UNLESS SPECIFICALLY APPROVED OTHERWISE.
- CRUSHED STONE BASE COURSE SHALL CONFORM TO THE REQUIREMENT FOR CLASS 7 AGGREGATE BASE COURSE AS DESCRIBED IN SECTION 303-AGGREGATE BASE COURSE OF THE ARKANSAS HIGHWAY DEPARTMENT'S "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION". THE CRUSHED STONE BASE COURSE GRADATION SHALL CONFORM TO THE ABOVE REFERENCED SPECIFICATION FOR THIS MATERIAL AFTER THE MATERIAL HAS BEEN PLACED AND COMPACTED. SAMPLES OF THE IN-PLACE MATERIAL MAY BE OBTAINED AND TESTED BY THE OWNER TO ASSURE CONFORMANCE TO THE SPECIFICATION. MATERIAL NOT CONFORMING TO THE SPECIFICATIONS SHALL BE REMOVED AND REPLACED. IN ADDITION, THE CRUSHED STONE BASE COURSE MATERIAL SHALL HAVE A MINIMUM CBR (CALIFORNIA BEARING RATIO) OF 75 AS DESCRIBED IN THE PROJECT SPECIFICATIONS.
- ALL MUD, SOIL AND LOOSE GRAVEL SHALL BE REMOVED FROM THE CRUSHED STONE BASE AND CONCRETE CURB AND GUTTER PRIOR TO PLACEMENT OF ASPHALT.
- STORM DRAINAGE PIPES, DITCHES AND DRAINAGE STRUCTURES MUST BE FREE OF SEDIMENTS, TRASH, DEBRIS AND PONDING WATER PRIOR TO FINAL APPROVAL OF THE STREETS.
- PRIOR TO THE PLACEMENT OF CONCRETE FOR CURB INLETS, BOX CULVERTS OR OTHER CONCRETE STRUCTURES, THE CONTRACTOR SHALL PROVIDE 24 HOUR NOTICE OF THE INTENT TO PLACE CONCRETE AND REQUEST THAT THE CITY INSPECT THE REINFORCING STEEL AND FORMING TO VERIFY CONFORMANCE WITH THE PLANS. CONCRETE PLACED WITHOUT CITY INSPECTION TO VERIFY REINFORCING STEEL PLACEMENT AND CONCRETE THICKNESS WILL NOT BE ACCEPTED AND SHALL BE TORN OUT AND RECONSTRUCTED WITH APPROPRIATE CITY APPROVAL.
- CONSTRUCTION SHALL NOT COMMENCE ON THIS PROJECT UNTIL A STORM WATER POLLUTION PREVENTION PLAN HAS BEEN PROPERLY IMPLEMENTED
- THE CONTRACTOR SHALL PROVIDE APPROPRIATE ADVANCED WARNING DEVICES, BARRICADES, BARRELS AND OTHER MEASURES AS NEEDED TO PROPERLY CONTROL AND ADVISE TRAFFIC.
- ALL WHEEL CHAIR RAMPS TO BY TYPE 3 UNLESS OTHERWISE NOTED
- ALL WORK SHALL CONFORM TO THE CITY OF CONWAY STANDARD DETAILS

QUALITY CONTROL REQUIREMENTS:

- THE CITY WILL SECURE THE SERVICES OF AN INDEPENDENT TESTING CONSULTANT AND PROVIDE TEST AND CERTIFICATIONS IN ACCORDANCE WITH THE FOLLOWING:
- STREET SUBGRADE:
- REQUIRED MINIMUM DENSITY 95% MODIFIED PROCTOR DENSITY. FIELD DENSITY TEST SHALL BE PERFORMED ON EACH LIFT OF FILL PLACED IN THE STREET SUBGRADE AND ON UTILITY AND STORM DRAINAGE PIPE TRENCHES.
 - STREET SUBGRADE DENSITY TESTS ARE REQUIRED FOR EVERY 800 FEET OF STREET SUBGRADE FOR EACH LIFT (8" MAXIMUM) OF EMBANKMENT OR FILL MATERIAL PLACED.
 - THE LOCATION OF THE TESTING WILL BE RANDOMLY IDENTIFIED IN THE FIELD BY THE CITY ENGINEER OR HIS DESIGNATED REPRESENTATIVE. THE FIELD DENSITY TEST SHALL BE PERFORMED IN THE PRESENCE OF THE CITY'S DESIGNATED REPRESENTATIVE.
 - IF A SUBGRADE DENSITY TEST IS LESS THAN THE MINIMUM REQUIRED A TEST IS REQUIRED ON THE RECOMPACTED AREA AS WELL AS AN ADDITIONAL TEST AT A LOCATION DESIGNATED BY THE CITY ENGINEER WITHIN 300 FEET OF THE SUBSTANDARD AREA.
 - THE CONTRACTOR SHALL PAY FOR THE RETESTING ALONG WITH ADDITIONAL TEST REQUIRED DUE TO THE FAILURE.
- CRUSHED STONE BASE COURSE
- FIELD DENSITY TEST (95% MINIMUM) ARE REQUIRED ON THE COMPACTED CRUSHED STONE BASE COURSE FOR EVERY 1,500 FEET OF BASE COURSE (TEST LOCATION DETERMINED BY CITY).
 - PLANT CERTIFICATION AND TEST RESULTS SHALL BE SUBMITTED VERIFYING THE MATERIAL CONFORMS TO THE GRADATION AND AHTD SPECIFICATION FOR THE MATERIAL SPECIFIED. IN ADDITION, THE SUPPLIER OF CRUSHED STONE BASE COURSE SHALL PROVIDE A CURRENT CBR TEST CONFIRMING A MINIMUM CBR OF 75. THE CITY MAY ELECT TO OBTAIN FIELD SAMPLES TO VERIFY THE CBR AND GRADATION TEST.
 - MATERIAL NOT MEETING THE SPECIFICATION SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
 - THE THICKNESS OF THE MATERIAL SHALL BE FIELD VERIFIED FOR EVERY 1,500 FEET OF STREET CONSTRUCTED.
 - THE COMPACTED INPLACE GRADATION OF THE MATERIAL SHALL CONFORM TO THE GRADATION AS SPECIFIED FOR CLASS 7 AGGREGATE BASE COURSE IN THE AHTD STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTIONS.

FOR NOTIFICATION OF NEEDED INSPECTION CONTACT:
CITY OF CONWAY
STREET AND ENGINEERING DEPARTMENT
100 EAST ROBINS
CONWAY, ARKANSAS 72032
PHONE 501-450-6165 FAX 501-513-3566

COORDINATION OF THE WORK

THE CONTRACTOR SHALL PROVIDE COMPETENT AND EXPERIENCED FIELD PERSONNEL TO COORDINATE THE WORK AND VERIFY THAT THE CONTRACTOR IS CONFORMING TO THE PLANS AND SPECIFICATIONS. THE CITY IS NOT RESPONSIBLE FOR COORDINATION OF THE PROJECT WORK.

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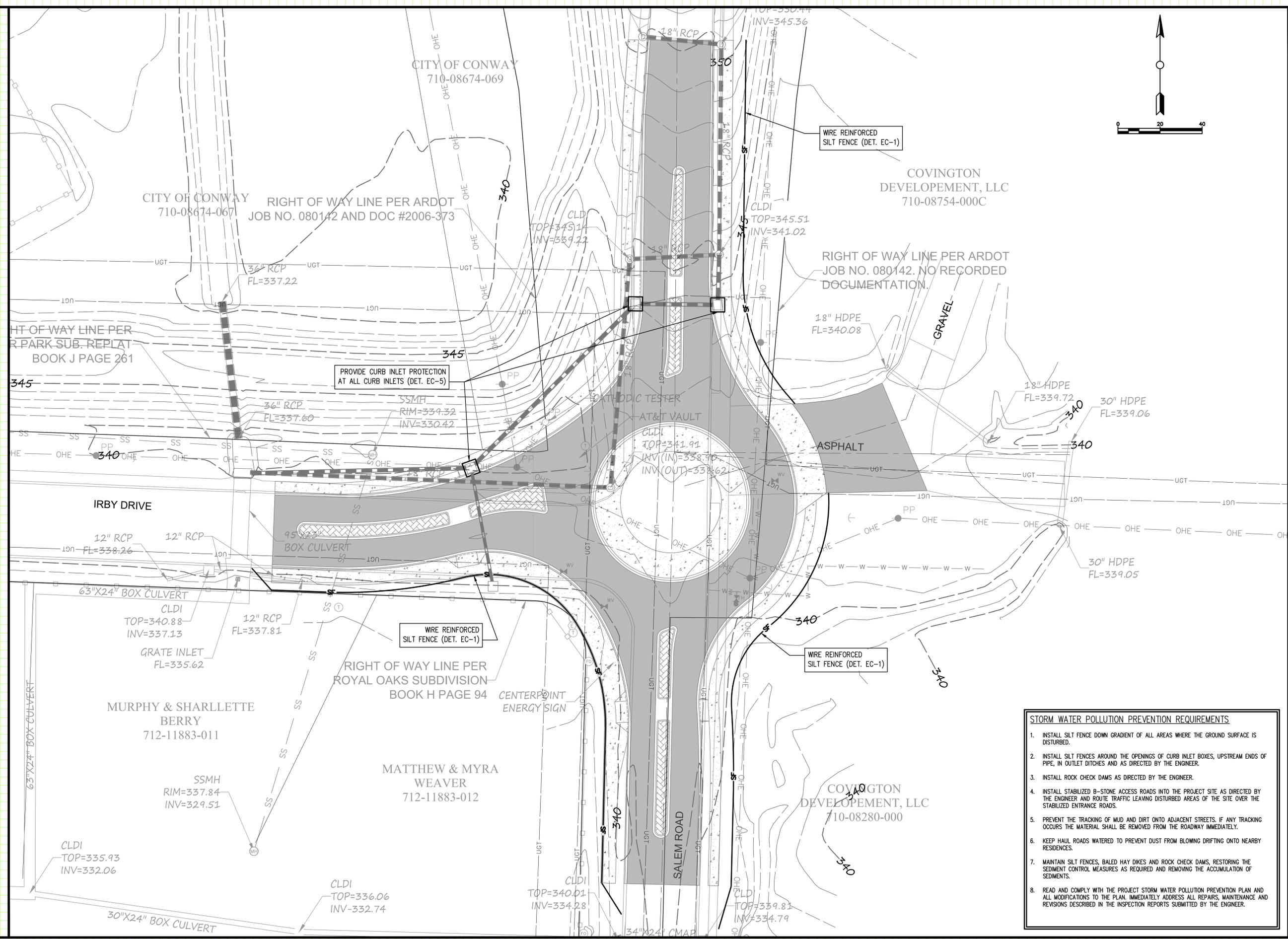
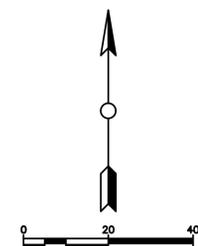
JOB NUMBER: 18-150
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TYP. SECTION &
GENERAL NOTES

C1

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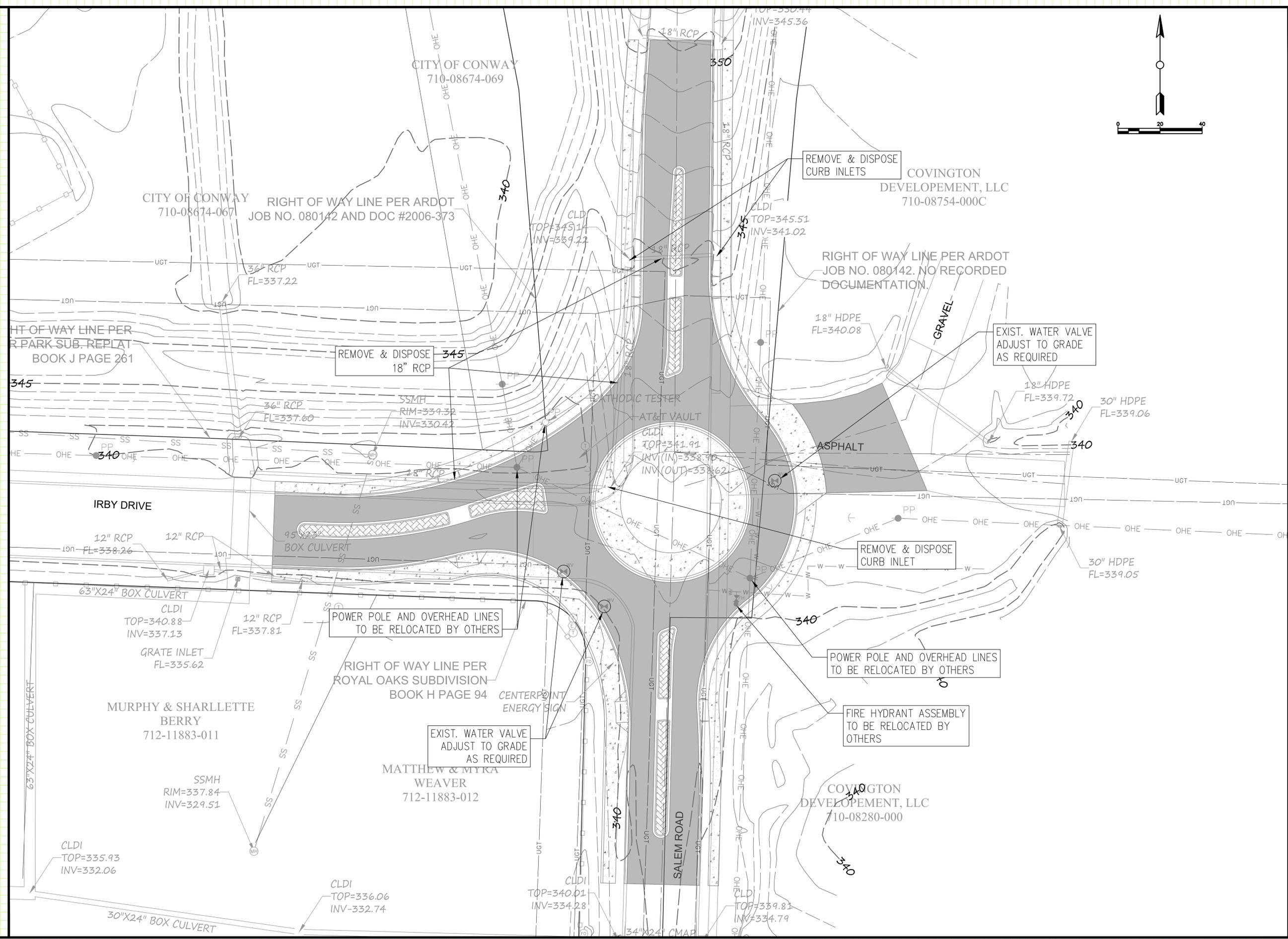
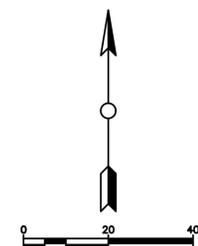
- STORM WATER POLLUTION PREVENTION REQUIREMENTS**
- INSTALL SILT FENCE DOWN GRADIENT OF ALL AREAS WHERE THE GROUND SURFACE IS DISTURBED.
 - INSTALL SILT FENCES AROUND THE OPENINGS OF CURB INLET BOXES, UPSTREAM ENDS OF PIPE, IN OUTLET DITCHES AND AS DIRECTED BY THE ENGINEER.
 - INSTALL ROCK CHECK DAMS AS DIRECTED BY THE ENGINEER.
 - INSTALL STABILIZED B-STONE ACCESS ROADS INTO THE PROJECT SITE AS DIRECTED BY THE ENGINEER AND ROUTE TRAFFIC LEAVING DISTURBED AREAS OF THE SITE OVER THE STABILIZED ENTRANCE ROADS.
 - PREVENT THE TRACKING OF MUD AND DIRT ONTO ADJACENT STREETS. IF ANY TRACKING OCCURS THE MATERIAL SHALL BE REMOVED FROM THE ROADWAY IMMEDIATELY.
 - KEEP HAUL ROADS WATERED TO PREVENT DUST FROM BLOWING DRIFTING ONTO NEARBY RESIDENCES.
 - MAINTAIN SILT FENCES, BALED HAY DIKES AND ROCK CHECK DAMS, RESTORING THE SEDIMENT CONTROL MEASURES AS REQUIRED AND REMOVING THE ACCUMULATION OF SEDIMENTS.
 - READ AND COMPLY WITH THE PROJECT STORM WATER POLLUTION PREVENTION PLAN AND ALL MODIFICATIONS TO THE PLAN. IMMEDIATELY ADDRESS ALL REPAIRS, MAINTENANCE AND REVISIONS DESCRIBED IN THE INSPECTION REPORTS SUBMITTED BY THE ENGINEER.

EROSION CONTROL

C2

REVISIONS

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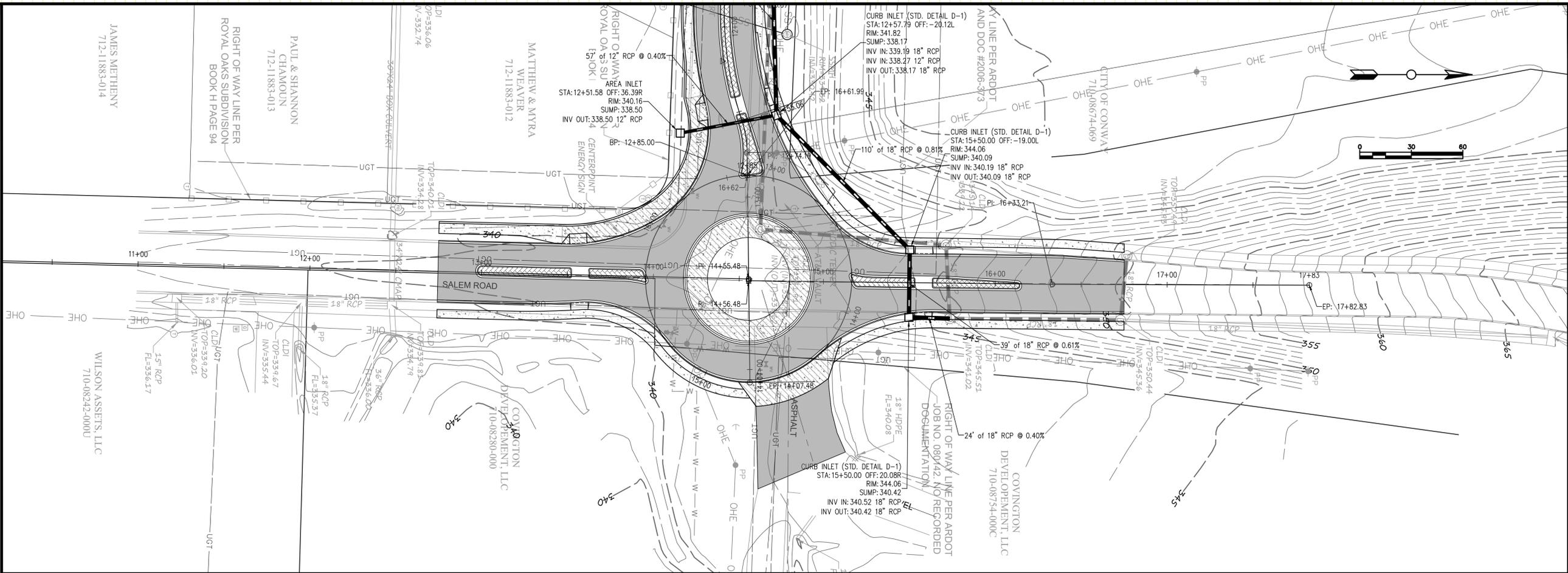
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 CONWAY, ARKANSAS**

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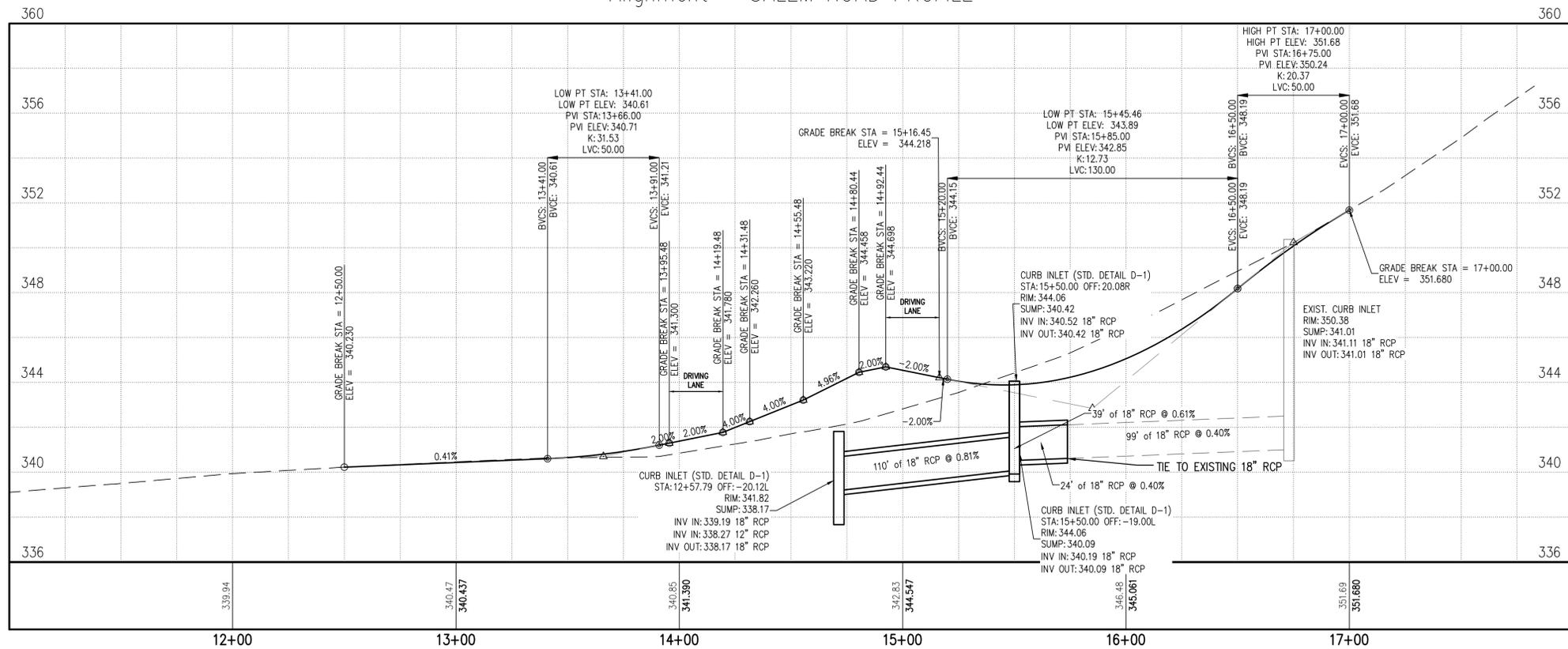
**DEMOLITION
 PLAN
 C3**

REVISIONS

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Alignment – SALEM ROAD PROFILE



SALEM & IRBY
 ROUNDABOUT CONSTRUCTION
 CONWAY, ARKANSAS

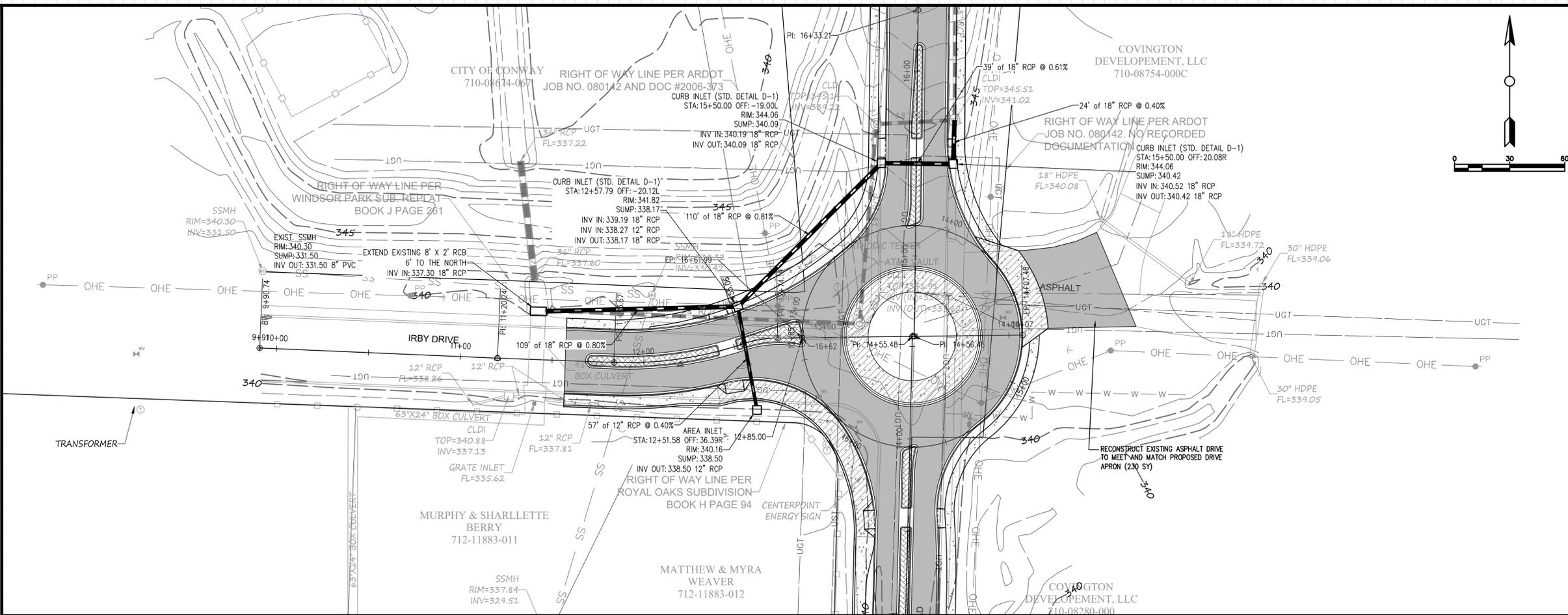
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 DATE: 3/16/20
 SCALE: 1"=30'

PLAN & PROFILE
 SALEM ROAD

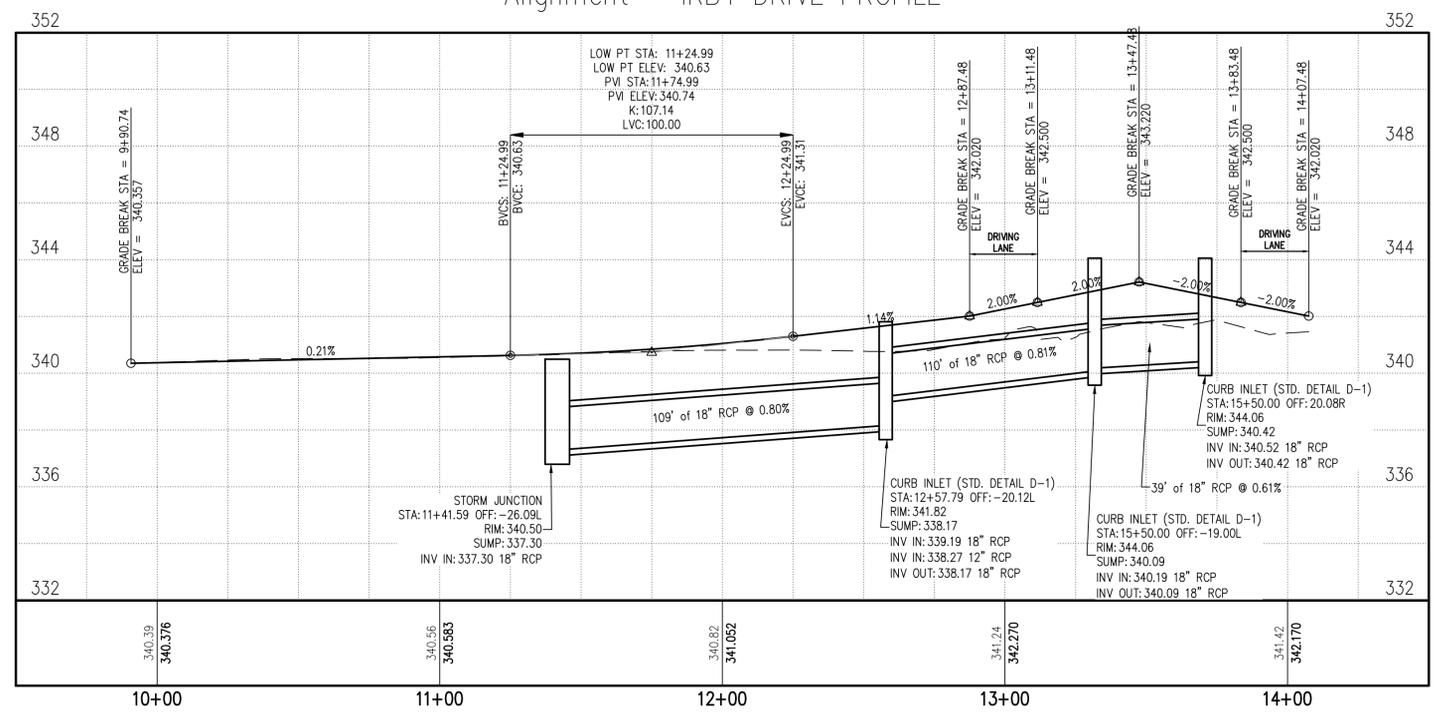
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REVISIONS

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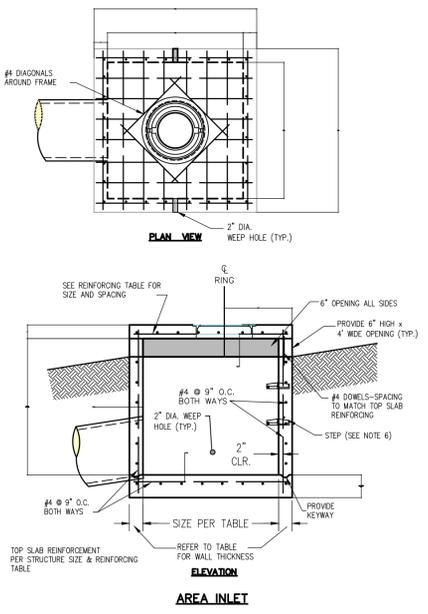
Alignment – IRBY DRIVE PROFILE



- JUNCTION BOX NOTES
1. ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
 2. ALL REINFORCEMENT BARS SHALL BE GRADE 60 AND SHALL HAVE A MINIMUM 2" COVER UNLESS OTHERWISE NOTED.
 3. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 p.s.i. - 10" 18" SHALL BE CAST-IN-PLACE.
 4. INVERTS SHALL BE POURED MONOLITHICALLY WITH FOOTING.
 5. PIPES MAY ENTER BOX FROM ANY ANGLE OF ELEVATION AS DIRECTED BY THE ENGINEER. REINFORCING BARS SHALL BE CUT TO CLEAR PIPE BY 2".
 6. STEPS ARE REQUIRED IN STORM DRAIN MANHOLES THAT ARE AT 4 FT OF DEPTH AND GREATER (FROM INVERT TO RIM). CENTERLINE OF MANHOLE LID SHALL BE 2 FT FROM THE WALL WHERE STEPS ARE LOCATED. STEPS (8" x 12") SHALL BE COPOLYMER POLYPROPYLENE PLASTIC WITH STEEL CORE AT 16" SPACING.
 7. LIMIT DEFLECTION TO 60 DEGREES. IF GREATER, USE NEXT LARGER MANHOLE DIAMETER/SIZE.

INSIDE DIMENSION	DIAMETER OF OUTLET PIPE	MIN. WALL THICKNESS	* TOP CONCRETE SLAB REINFORCING	MIN. WALL THICKNESS
4'	15" - 18"	6"	# 4'S @ 8" O.C. E.W.	6"
5'	24" - 42"	8"	# 4'S @ 7" O.C. E.W.	8"
6'	48" - 54"	8"	# 5'S @ 9" O.C. E.W.	8"

* WHEN UNDER TRAFFIC, USE # 5'S @ 6" O.C. E.W.



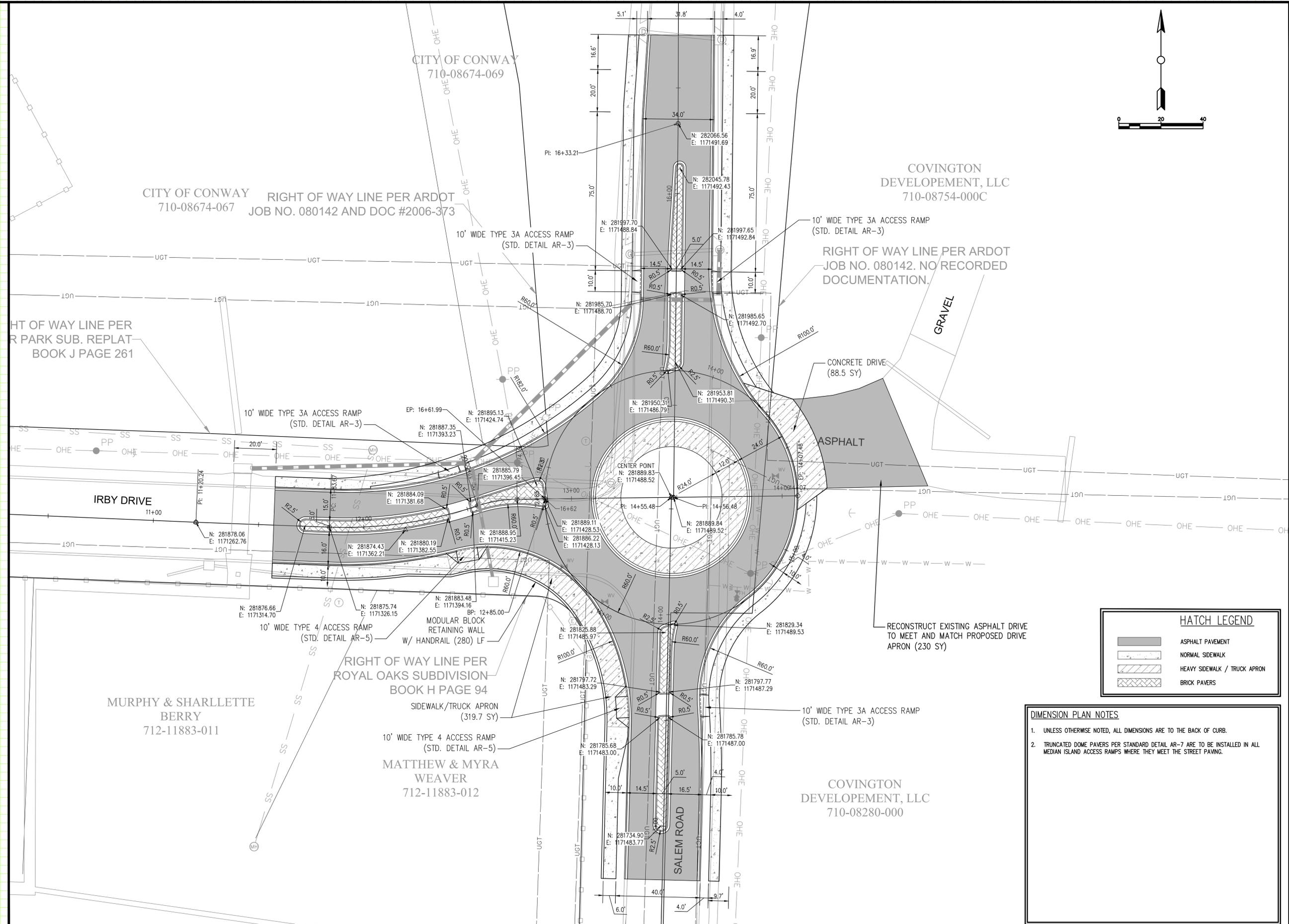
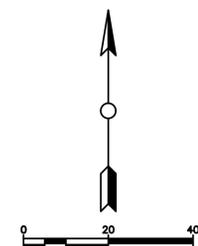
SALEM & IRBY
 ROUNDABOUT CONSTRUCTION
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PLAN & PROFILE
 IRBY DRIVE
 C5

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**SALEM & IRBY
 ROUNDABOUT CONSTRUCTION
 CONWAY, ARKANSAS**

HATCH LEGEND

	ASPHALT PAVEMENT
	NORMAL SIDEWALK
	HEAVY SIDEWALK / TRUCK APRON
	BRICK PAVERS

DIMENSION PLAN NOTES

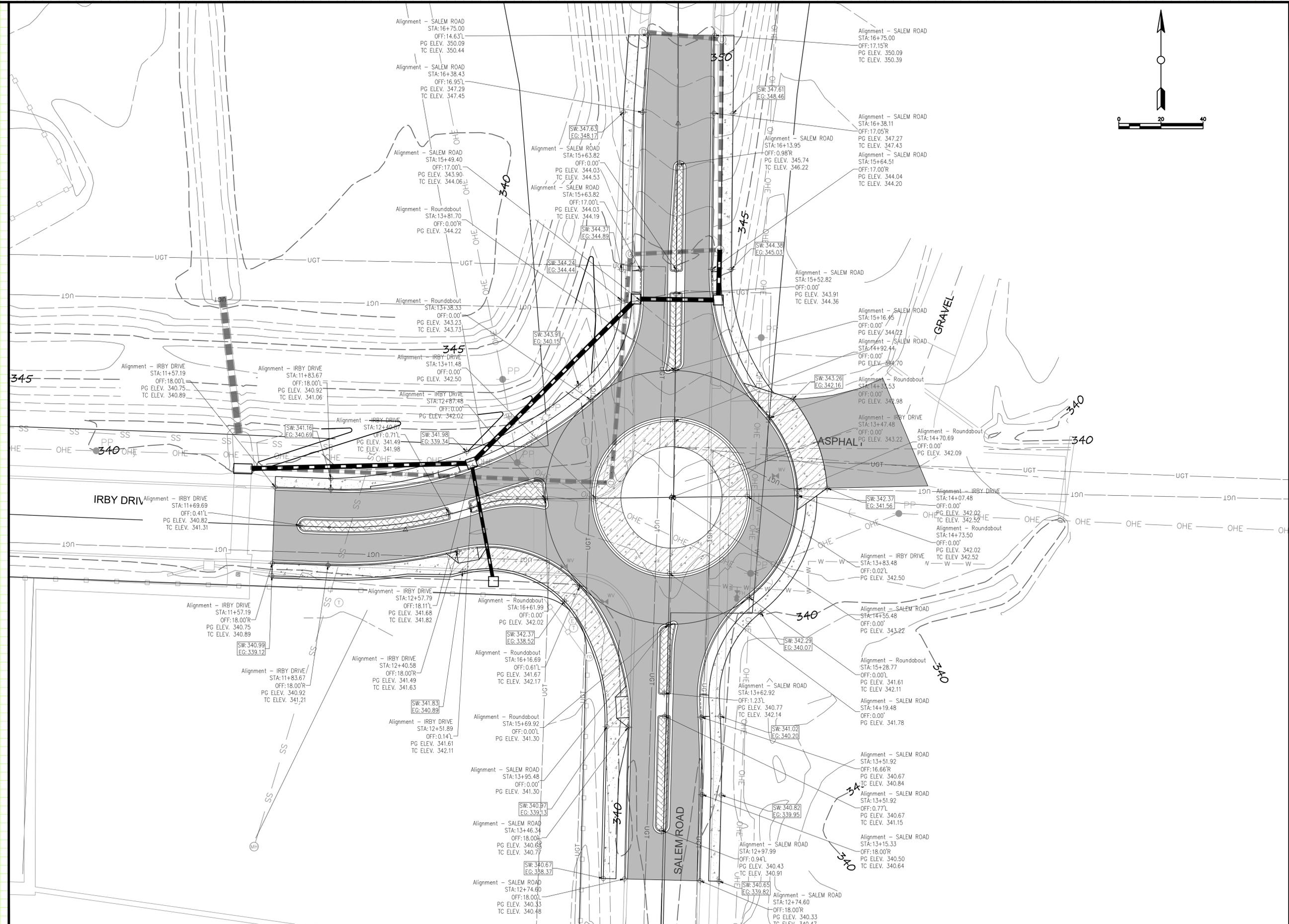
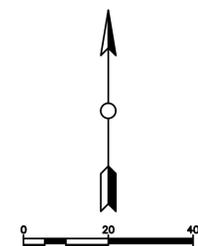
- UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO THE BACK OF CURB.
- TRUNCATED DOME PAVERS PER STANDARD DETAIL AR-7 ARE TO BE INSTALLED IN ALL MEDIAN ISLAND ACCESS RAMPS WHERE THEY MEET THE STREET PAVING.

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**DIMENSION
 PLAN
 C6**

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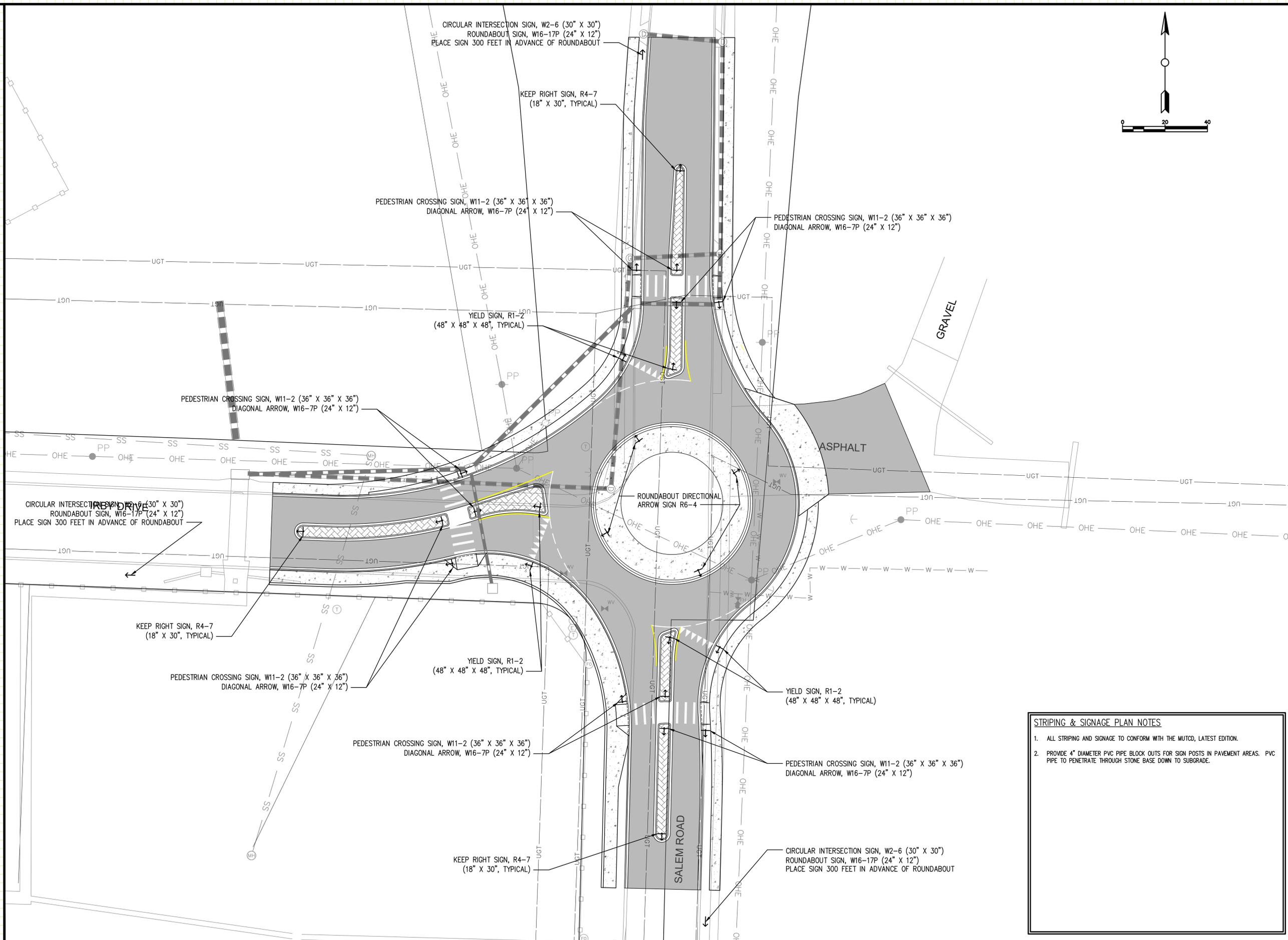
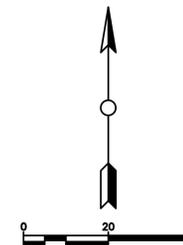
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GRADING
PLAN
C7

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STRIPING & SIGNAGE PLAN NOTES

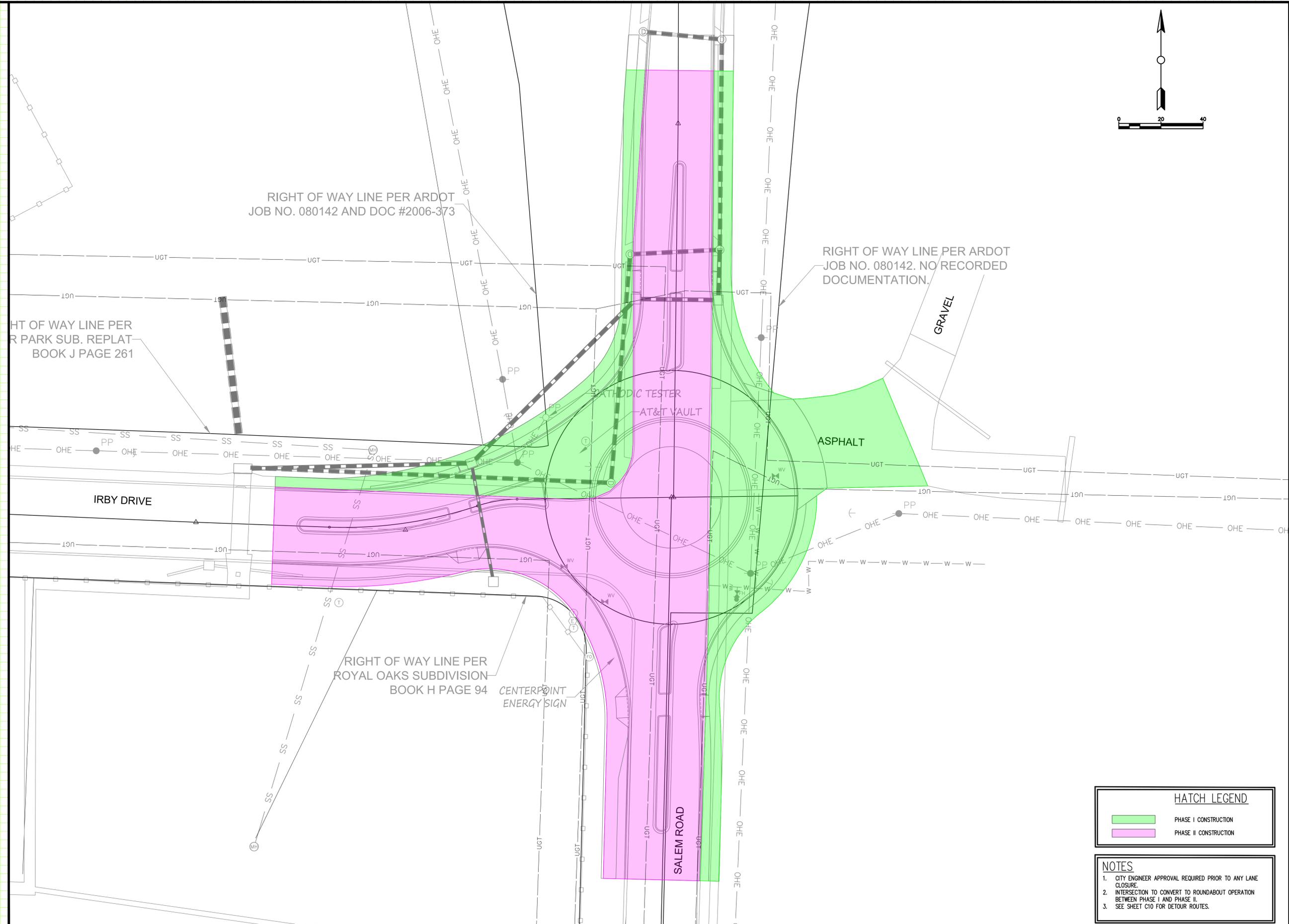
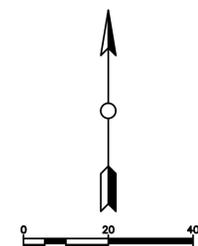
- ALL STRIPING AND SIGNAGE TO CONFORM WITH THE MUTCD, LATEST EDITION.
- PROVIDE 4" DIAMETER PVC PIPE BLOCK OUTS FOR SIGN POSTS IN PAVEMENT AREAS. PVC PIPE TO PENETRATE THROUGH STONE BASE DOWN TO SUBGRADE.

SIGNAGE &
STRIPING

C8

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HATCH LEGEND

	PHASE I CONSTRUCTION
	PHASE II CONSTRUCTION

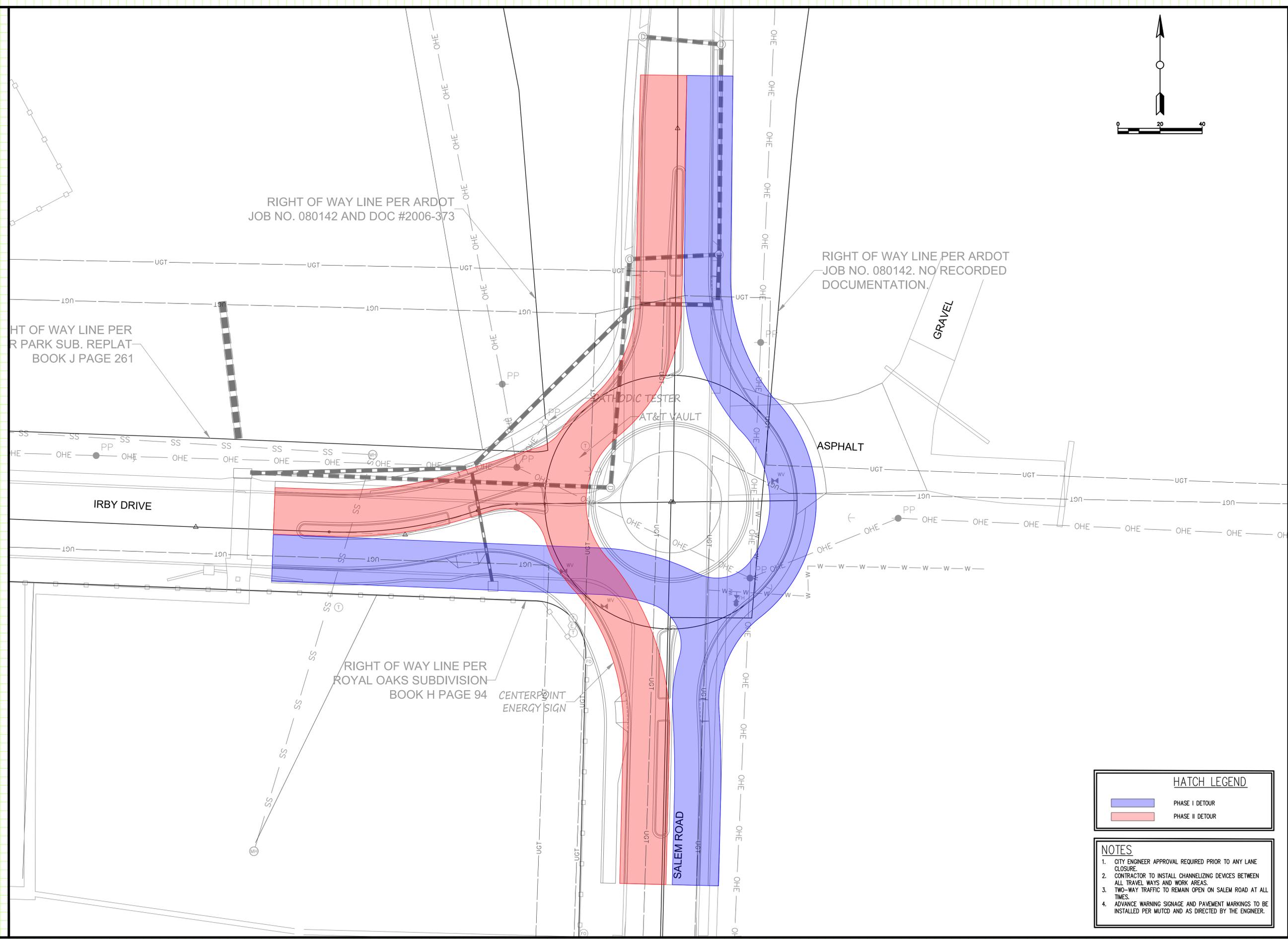
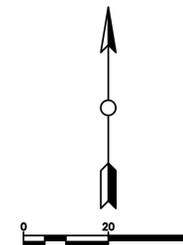
- NOTES**
1. CITY ENGINEER APPROVAL REQUIRED PRIOR TO ANY LANE CLOSURE.
 2. INTERSECTION TO CONVERT TO ROUNDABOUT OPERATION BETWEEN PHASE I AND PHASE II.
 3. SEE SHEET C10 FOR DETOUR ROUTES.

SEQUENCE OF CONSTRUCTION

C9

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HATCH LEGEND	
	PHASE I DETOUR
	PHASE II DETOUR

- NOTES**
- CITY ENGINEER APPROVAL REQUIRED PRIOR TO ANY LANE CLOSURE.
 - CONTRACTOR TO INSTALL CHANNELIZING DEVICES BETWEEN ALL TRAVEL WAYS AND WORK AREAS.
 - TWO-WAY TRAFFIC TO REMAIN OPEN ON SALEM ROAD AT ALL TIMES.
 - ADVANCE WARNING SIGNAGE AND PAVEMENT MARKINGS TO BE INSTALLED PER MUTCD AND AS DIRECTED BY THE ENGINEER.

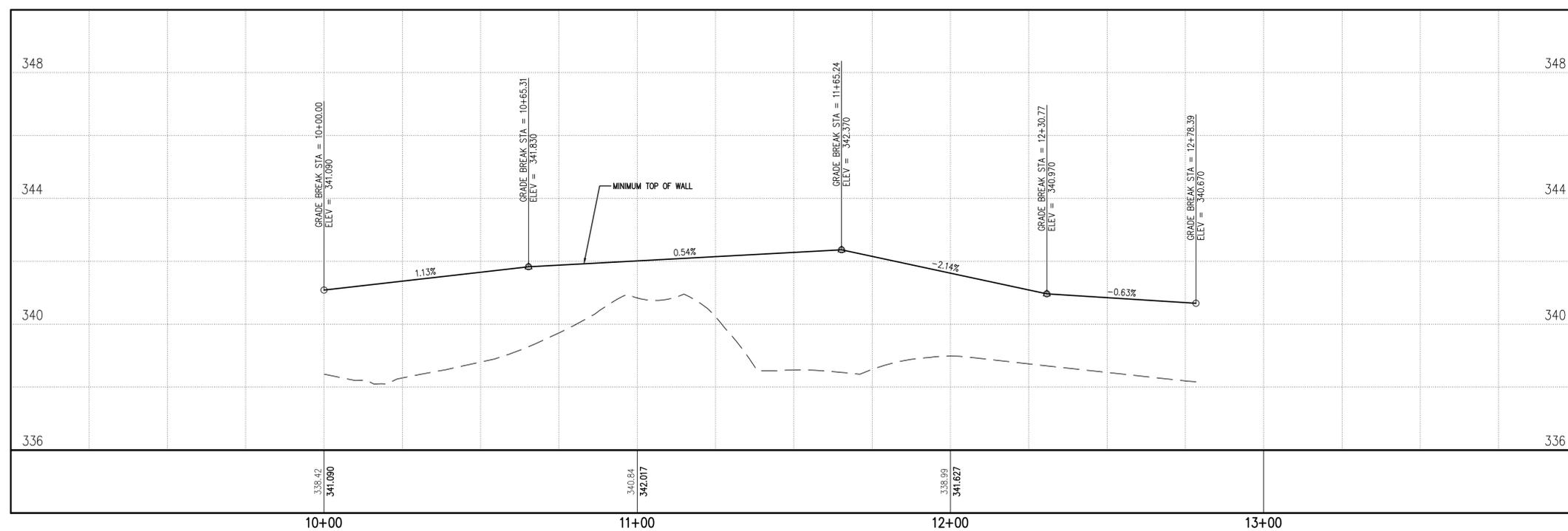
DETOUR PLAN

C10

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Alignment – Retaining Wall PROFILE



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RETAINING WALL
 PROFILE

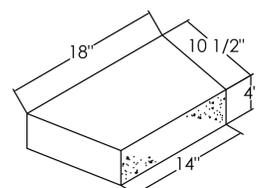
C11

REVISIONS

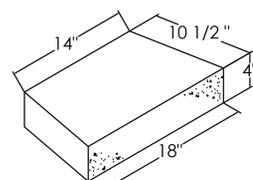
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Typical Details Classic 8

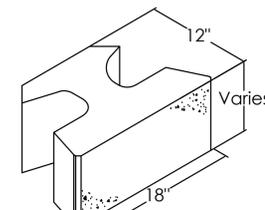
(Dimensions may vary by region)



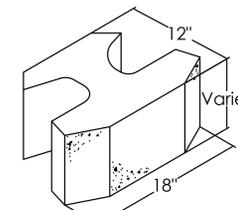
Universal Cap - back



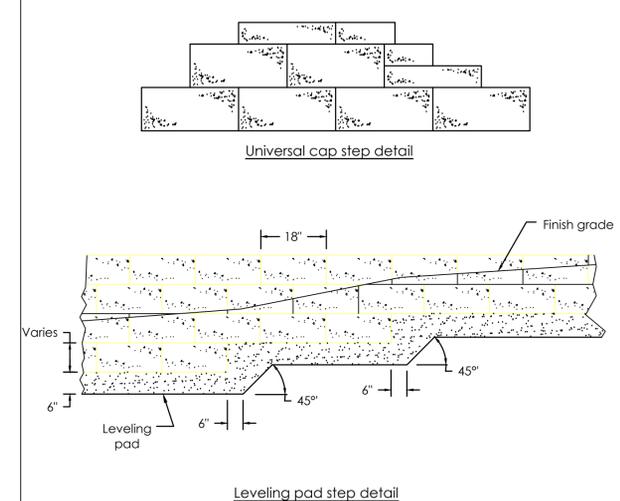
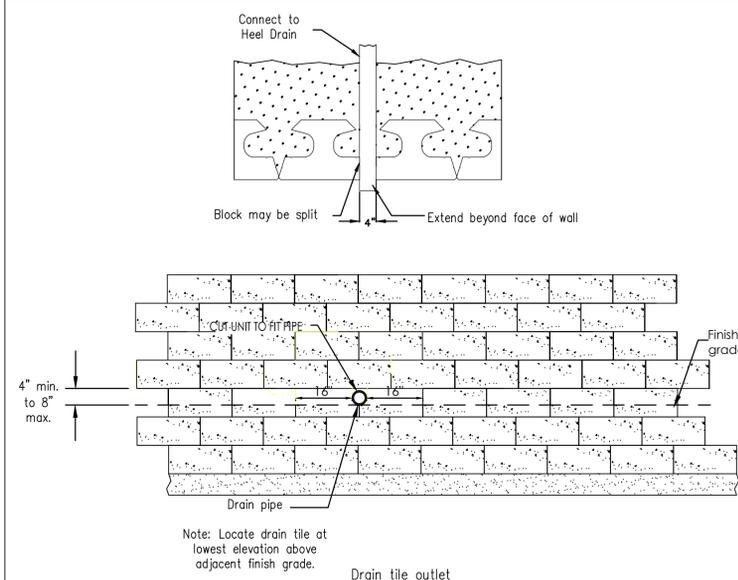
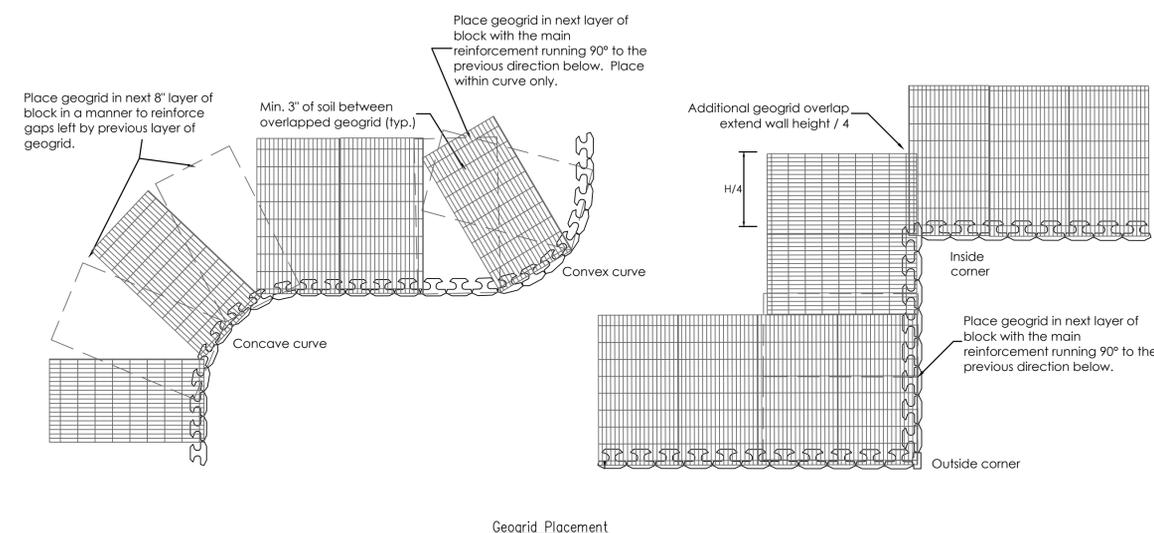
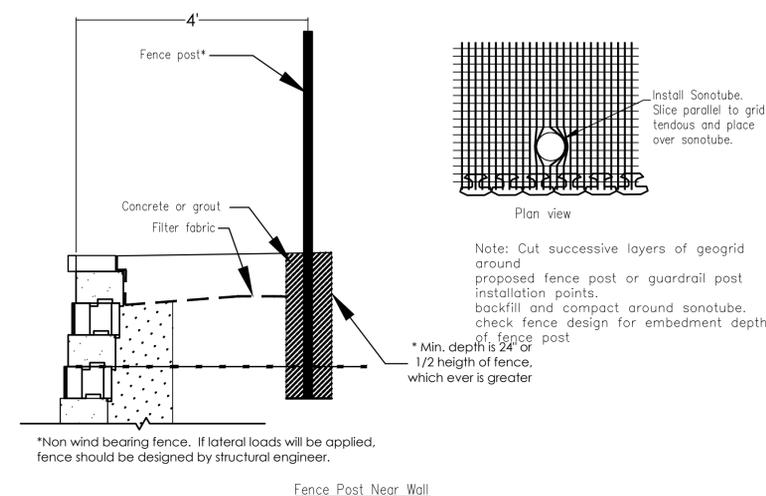
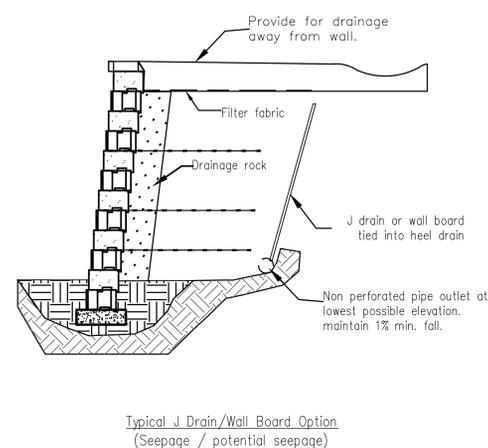
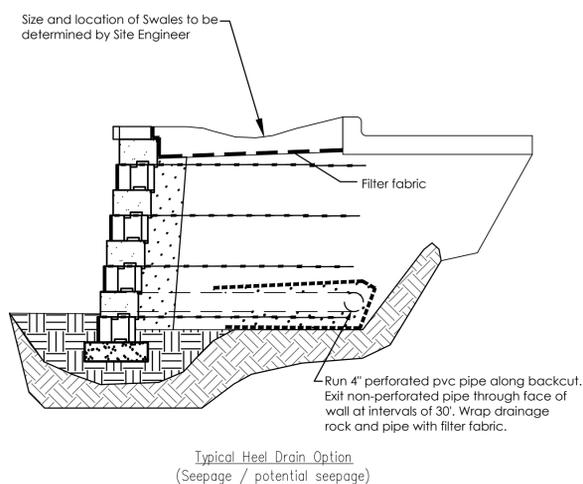
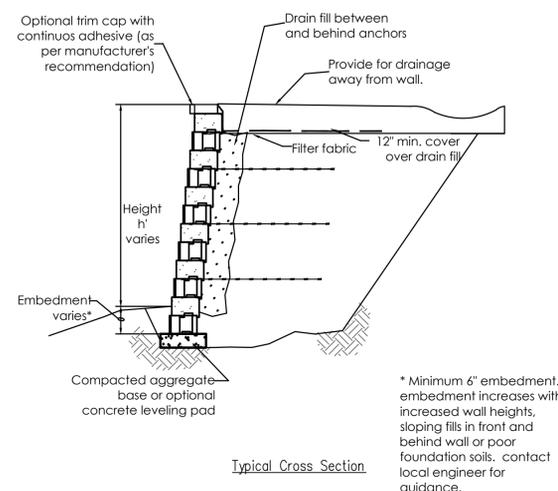
Universal Cap - front



Classic 8 unit
(Straight)



Classic 8 unit
(Beveled)



SALEM & IRBY ROUNDABOUT CONSTRUCTION CONWAY, ARKANSAS

JOB NUMBER: 18-150
DRAWN BY: KJJ
CHECKED BY: BFV3
DATE: 3/16/20
SCALE: NTS

RETAINING WALL DETAILS

C12

This drawing is furnished for preliminary design purposes only, and should not be used for final design drawings or construction drawings without the certification of a professional engineer registered in the state in which the wall will be constructed

No.	Date.	Revision.	By.

Prepared by:

Legend

	Compacted Fill		Crushed Rock
	Native Soil		Leveling Pad
	Geogrid		

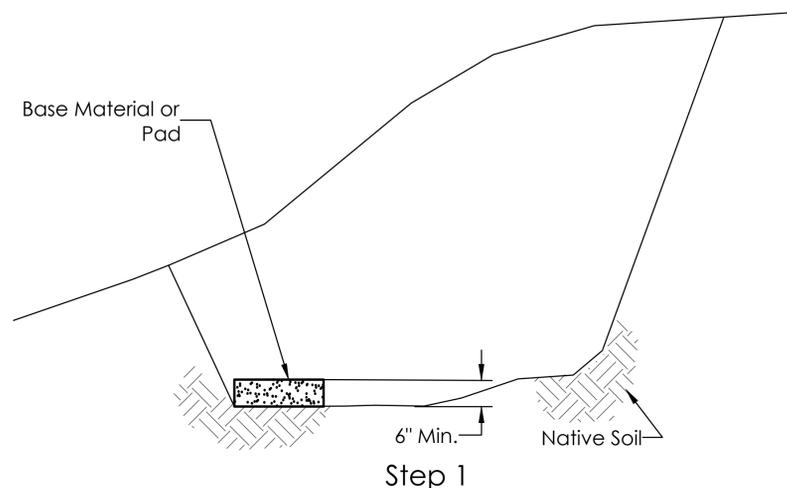
Project Name: Salem and Irby Roundabout
Project Location: Conway, Arkansas
Drawing Description: Classic 8 Typical Details

REVISIONS

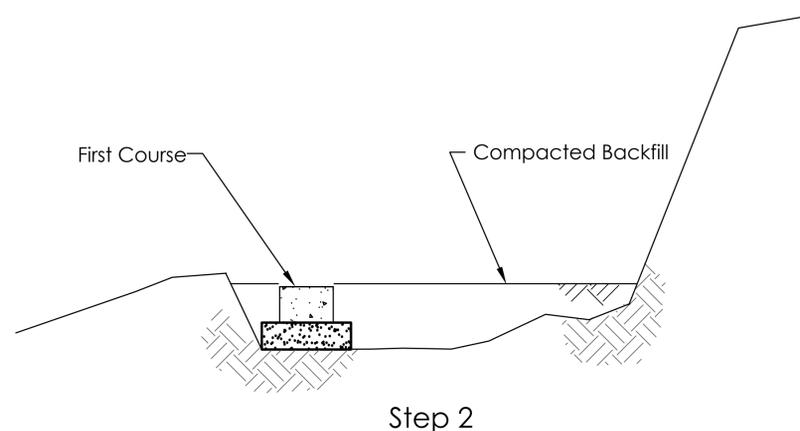
NO.	DESCRIPTION	DATE

Wall Construction Sequence with Classic™

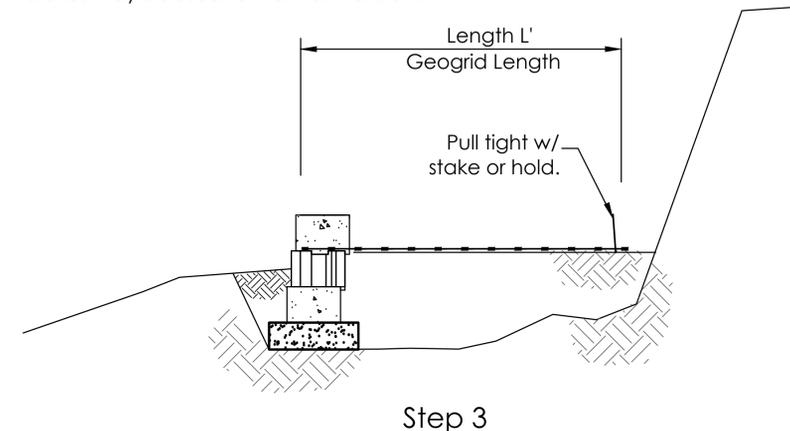
- Excavate trench for a level base, remove all organic and unsuitable soils and compact.
- Install compacted aggregate base material or concrete leveling pad.
- Check levelness of base material or leveling pad.



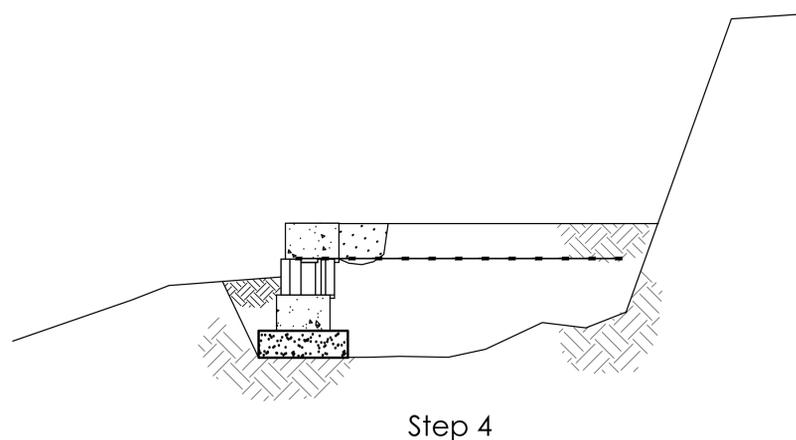
- Check all line grade and curves.
- Install first course insuring all blocks are level; both side to side and front to back.
- Align back side of block to insure a straight installation.
- Set units side by side, so they are touching.
- Place and compact backfill behind and in front of the first course.
- Sweep top of block.
- Re-check levelness.



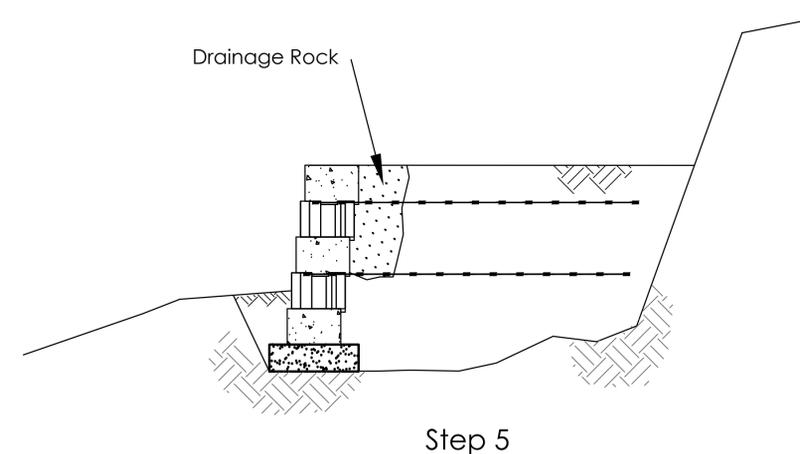
- Install next course (anchor bar down) by offsetting the center of block over the seams of previous course.
- Continue placing courses until geogrid placement is required.
- Place and compact 8" max. lifts.
- Place geogrid over block and lay over compacted backfill.
- Place next course of block over geogrid.
- Pull geogrid tight, keep tension applied until backfill is placed; staples or stakes may be used to maintain tension.



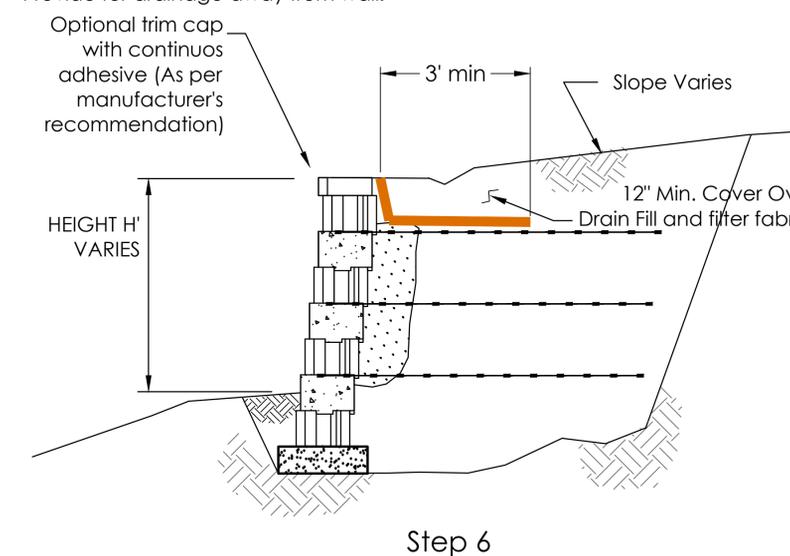
- Place a minimum of 12" of drainage rock above the finish grade in front of wall.
- Place compacted backfill behind drainage rock.
- Place additional block courses by repeating step 3.



- Continue wall construction to full height.
- Place additional block course by repeating steps 3 and 4.
- Place geogrid at required heights and lengths by repeating steps 2 thru 4.



- Repeat steps 3 thru 5 until wall is at required height.
- Install cap units, filter fabric, and final lift of backfill.
- Provide for drainage away from wall.



SALEM & IRBY
ROUNDABOUT CONSTRUCTION
CONWAY, ARKANSAS

JOB NUMBER: 18-150
DRAWN BY: KJJ
CHECKED BY: BFV3
DATE: 3/16/20
SCALE: NTS

RETAINING WALL
DETAILS

C13

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No.	Date.	Revision.	By.

PREPARED BY:

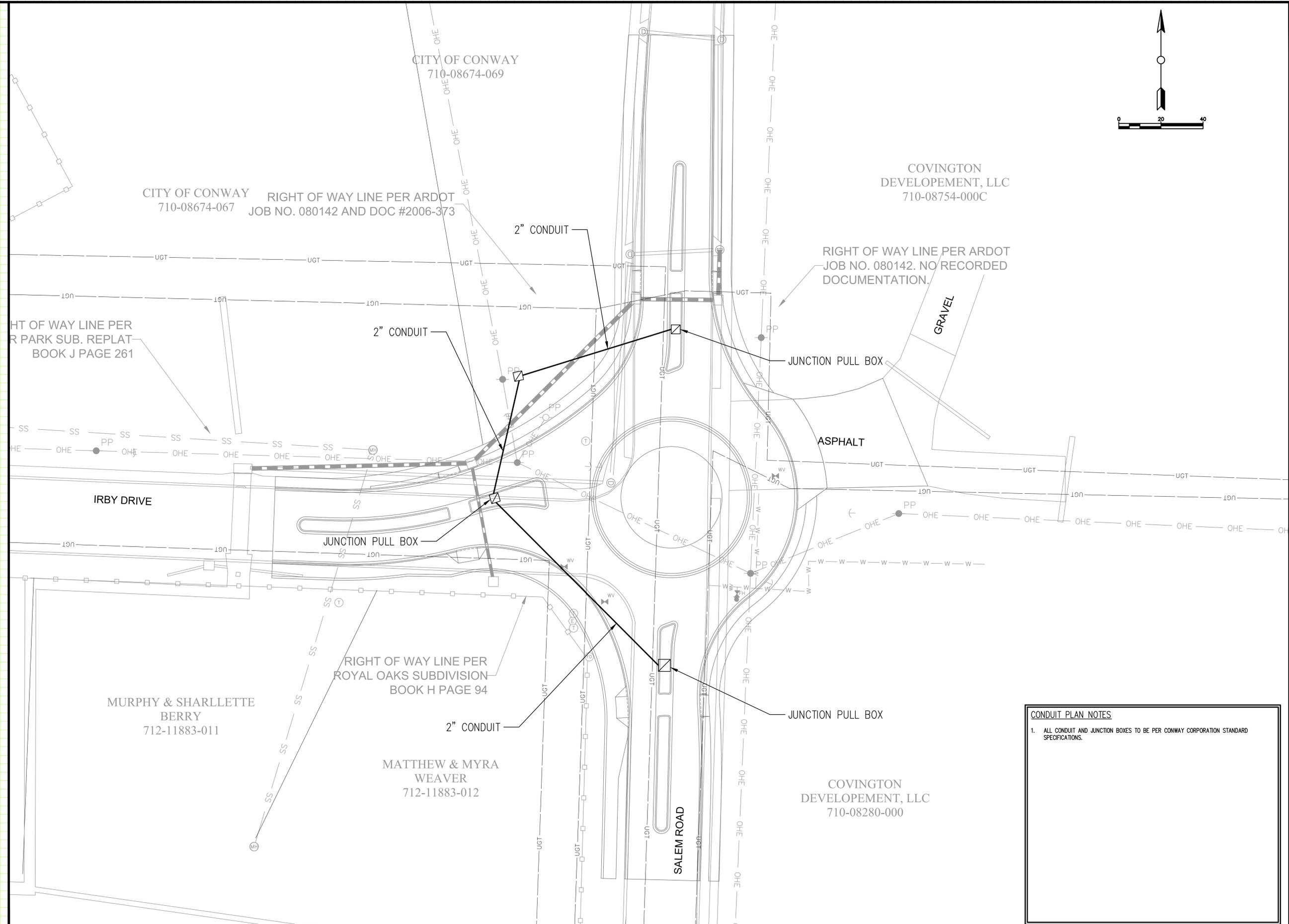
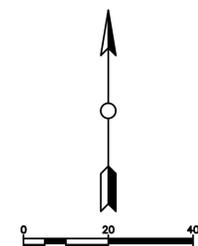
Legend

	Compacted Fill		Crushed Rock
	Native Soil		Leveling Pad
	Geogrid		

Project Name: Salem and Irby Roundabout
Project Location: Conway, Arkansas
Drawing Description: Wall Construction Sequence

REVISIONS

NO.	DESCRIPTION	DATE



**SALEM & IRBY
 ROUNDABOUT CONSTRUCTION
 CONWAY, ARKANSAS**

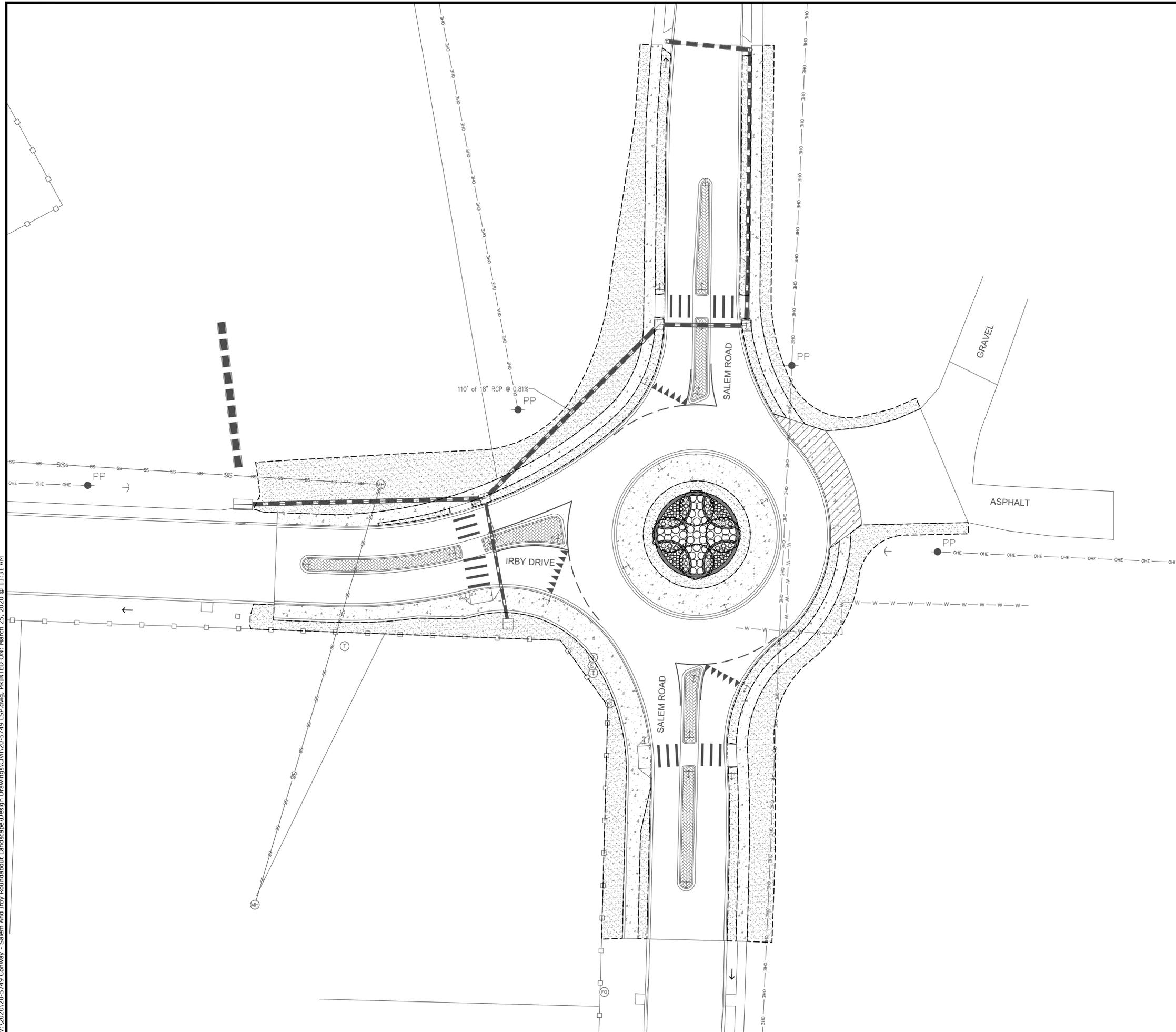
CONDUIT PLAN NOTES

1. ALL CONDUIT AND JUNCTION BOXES TO BE PER CONWAY CORPORATION STANDARD SPECIFICATIONS.

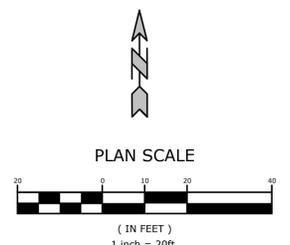
JOB NUMBER: 18-150
 DRAWN BY: KJJ
 CHECKED BY: BFVJ
 DATE: 3/16/20
 SCALE: 1"=20'

**CONDUIT
 PLAN
 C14**

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PROPOSED LEGEND	
	STORM DRAIN
	CATCH BASIN
	SANITARY SEWER MANHOLE
	FLARED END SECTION
	GAS METER
	ELECTRIC METER
	FIRE DEPARTMENT CONNECTION
	FIRE HYDRANT
	POST INDICATOR VALVE
	WATER METER
	SANITARY SEWER MANHOLE
	CLEAN-OUT
	ELECTRIC TRANSFORMER
	POWER POLE/POWER POLE & GUY
	LIGHT POLE
	SEED (SEE PLANTING LIST - THIS SHEET)
	SOD (SEE PLANTING LIST - THIS SHEET)
	SHRUB PLANTING (SEE PLANTING LIST - THIS SHEET)
	TREE PLANTING (SEE PLANTING LIST - THIS SHEET)
	GAS LINE
	OVERHEAD ELECTRIC LINE
	OVERHEAD ELECTRIC & FIBER OPTIC LINE
	OVERHEAD ELECTRIC & TELEPHONE LINE
	OVERHEAD FIBER OPTIC LINE
	OVERHEAD TELEPHONE & FIBER OPTIC LINE
	OVERHEAD TELEVISION
	UNDERGROUND FIBER OPTIC LINE
	UNDERGROUND ELECTRIC LINE
	UNDERGROUND ELECTRIC & FIBER OPTIC LINE
	UNDERGROUND ELECTRIC & TELEPHONE LINE
	UNDERGROUND TELEPHONE
	UNDERGROUND TELEVISION
	UNDERGROUND TELEPHONE & FIBER OPTIC LINE
	ELECTRICAL PEDESTAL
	TELEPHONE PEDESTAL
	TRAFFIC SIGNAL PEDESTAL



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 CONWAY, AR



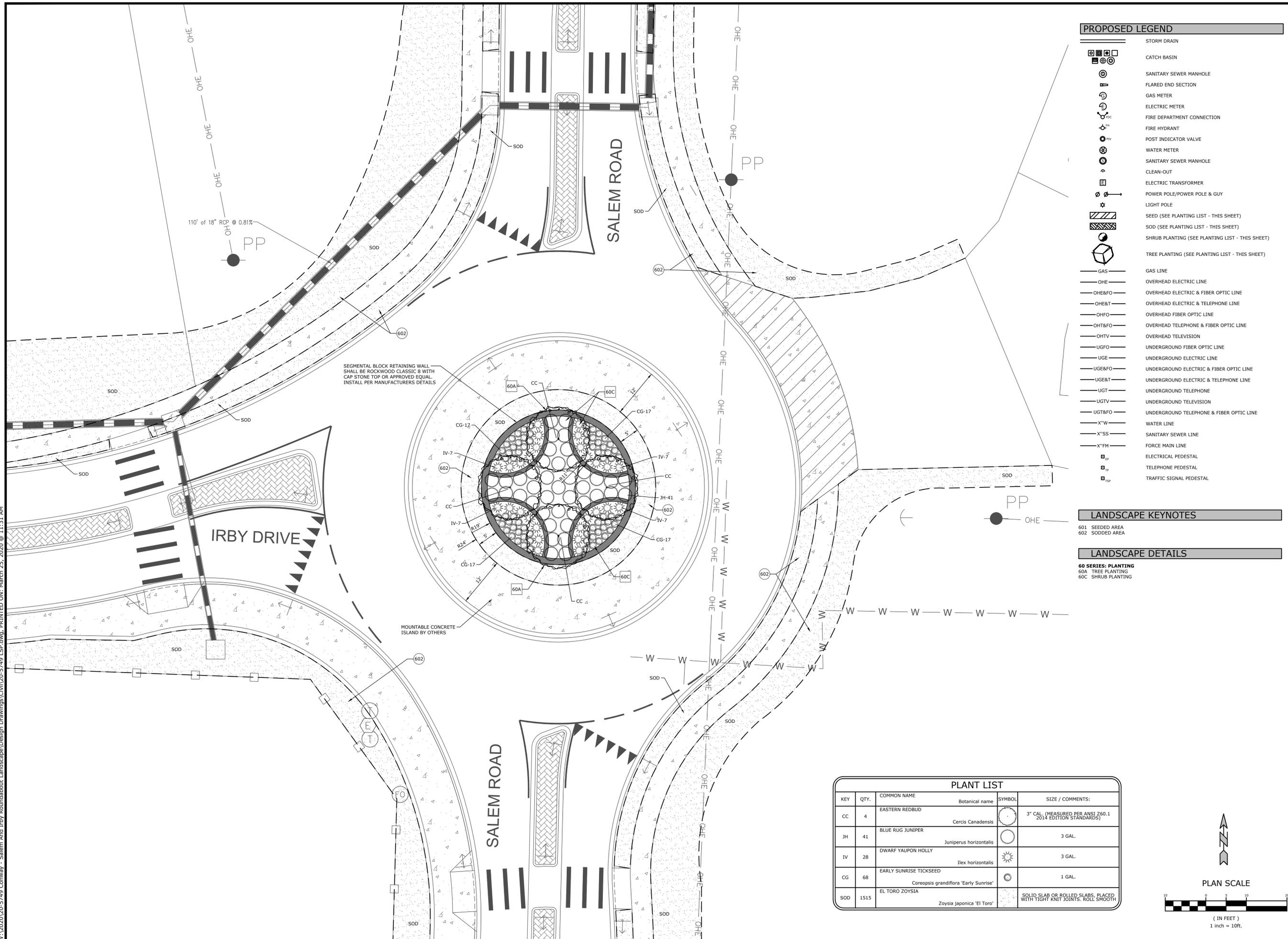
REV	DATE	DESCRIPTION

**OVERALL
 LANDSCAPE
 PLAN**

DESIGNED BY: EH4	DRAWN BY: EH4
DATE: 03-24-2020	REVISION:
SCALE: 1" = 20'	JOB NUMBER: 20-5749

L1

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- PROPOSED LEGEND**
- STORM DRAIN
 - CATCH BASIN
 - SANITARY SEWER MANHOLE
 - FLARED END SECTION
 - GAS METER
 - ELECTRIC METER
 - FIRE DEPARTMENT CONNECTION
 - FIRE HYDRANT
 - POST INDICATOR VALVE
 - WATER METER
 - SANITARY SEWER MANHOLE CLEAN-OUT
 - ELECTRIC TRANSFORMER
 - POWER POLE/POWER POLE & GUY
 - LIGHT POLE
 - SEED (SEE PLANTING LIST - THIS SHEET)
 - SOD (SEE PLANTING LIST - THIS SHEET)
 - SHRUB PLANTING (SEE PLANTING LIST - THIS SHEET)
 - TREE PLANTING (SEE PLANTING LIST - THIS SHEET)
 - GAS LINE
 - OVERHEAD ELECTRIC LINE
 - OVERHEAD ELECTRIC & FIBER OPTIC LINE
 - OVERHEAD ELECTRIC & TELEPHONE LINE
 - OVERHEAD FIBER OPTIC LINE
 - OVERHEAD TELEPHONE & FIBER OPTIC LINE
 - OVERHEAD TELEVISION
 - UNDERGROUND FIBER OPTIC LINE
 - UNDERGROUND ELECTRIC LINE
 - UNDERGROUND ELECTRIC & FIBER OPTIC LINE
 - UNDERGROUND ELECTRIC & TELEPHONE LINE
 - UNDERGROUND TELEPHONE
 - UNDERGROUND TELEVISION
 - UNDERGROUND TELEPHONE & FIBER OPTIC LINE
 - WATER LINE
 - SANITARY SEWER LINE
 - FORCE MAIN LINE
 - ELECTRICAL PEDESTAL
 - TELEPHONE PEDESTAL
 - TRAFFIC SIGNAL PEDESTAL

LANDSCAPE KEYNOTES

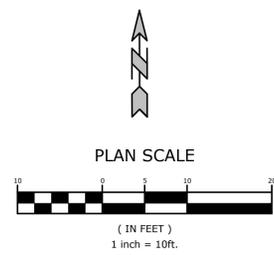
- 601 SEEDED AREA
- 602 SODDED AREA

LANDSCAPE DETAILS

- 60 SERIES: PLANTING
- 60A TREE PLANTING
- 60C SHRUB PLANTING

PLANT LIST

KEY	QTY.	COMMON NAME	Botanical name	SYMBOL	SIZE / COMMENTS:
CC	4	EASTERN REDBUD	<i>Cercis Canadensis</i>		3" CAL. (MEASURED PER ANSI Z60.1 2014 EDITION STANDARDS)
JH	41	BLUE RUG JUNIPER	<i>Juniperus horizontalis</i>		3 GAL.
IV	28	DWARF YAUPON HOLLY	<i>Ilex horizontalis</i>		3 GAL.
CG	68	EARLY SUNRISE TICKSEED	<i>Coreopsis grandiflora 'Early Sunrise'</i>		1 GAL.
SOD	1515	EL TORO ZOYSIA	<i>Zoysia japonica 'El Toro'</i>		SOLID SLAB OR ROLLED SLABS, PLACED WITH TIGHT KNOT JOINTS. ROLL SMOOTH



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 CONWAY, AR

811
 Know what's below.
 Call before you dig.

REV	DATE	DESCRIPTION

**ROUNDABOUT
 LANDSCAPE
 PLAN**

DESIGNED BY: EHA
 DATE: 03-24-2020
 SCALE: 1" = 10'
 DRAWN BY: EHA
 REVISION:
 JOB NUMBER: 20-5749

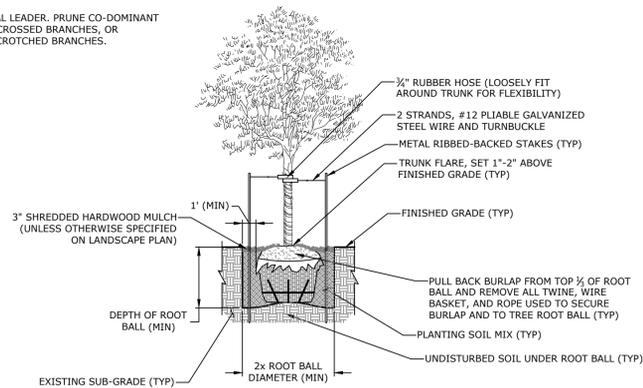
L2

GENERAL LANDSCAPE NOTES

- CONTRACTOR IS RESPONSIBLE FOR INSURING THAT ALL PROPOSED LANDSCAPING IS INSTALLED IN ACCORDANCE WITH PLANS, DETAILS, SPECIFICATIONS (IF APPLICABLE), AND ALL LOCAL CODES AND REQUIREMENTS.
- CONTRACTOR TO INSPECT SITE AND VERIFY CONDITIONS AND DIMENSIONING PRIOR TO PROCEEDING WITH WORK DESCRIBED HERE IN. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING ANY CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR WORK IN ACCORDANCE WITH PLANS, DETAILS, SPECIFICATIONS, AND LOCAL CODES AND REQUIREMENTS.
- QUANTITIES PROVIDED IN THE PLANT LIST ARE FOR GENERAL USE ONLY. CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ALL PLANT AND LANDSCAPE MATERIAL QUANTITIES. SYMBOL COUNT ON PLAN TAKES PRECEDENCE OVER TABLE QUANTITIES.
- IMMEDIATELY AFTER AWARD OF CONTRACT, CONTRACTOR IS TO NOTIFY THE OWNER'S REPRESENTATIVE AND / OR THE LANDSCAPE ARCHITECT OF ANY UNAVAILABILITY OF SPECIFIED PLANT MATERIAL FROM COMMERCIAL NURSERIES. THE OWNER'S REPRESENTATIVE AND / OR LANDSCAPE ARCHITECT WILL PROVIDE ALTERNATE PLANT MATERIAL SELECTIONS IF UNAVAILABILITY OCCURS. SUCH CHANGES SHALL NOT ALTER THE ORIGINAL BID PRICE UNLESS A CREDIT IS DUE TO THE OWNER.
- ALL PLANT MATERIALS TO CONFORM TO THE AMERICAN STANDARD FOR NURSERY STOCK ANSI Z60.1.
- CONTAINER GROWN STOCK SHOULD HAVE GROWN IN A CONTAINER LONG ENOUGH FOR THE ROOT SYSTEM TO HAVE DEVELOPED SUFFICIENTLY TO HOLD ITS SOIL TOGETHER.
- ANY PLANT SUBSTITUTIONS, RELOCATION, OR REQUIRED CHANGES SHALL REQUIRE THE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT AND / OR OWNER.
- THE OWNER'S REPRESENTATIVE AND / OR LANDSCAPE ARCHITECT RESERVE THE RIGHT TO REFUSE ANY MATERIAL THEY DEEM UNACCEPTABLE.
- CONTRACTOR TO COORDINATE WITH PROJECT REPRESENTATIVE FOR DISTURBED SITE TREATMENTS OUTSIDE LANDSCAPE IMPROVEMENTS. SEE CIVIL PLANS FOR SOIL STABILIZATION FOR EROSION CONTROL.
- IF REQUIRED, CONTRACTOR TO ENSURE THAT AN AUTOMATED IRRIGATION SYSTEM THAT PROVIDES COMPLETE COVERAGE OF THE SITE IS INSTALLED PRIOR TO INSTALLING TREES / PALMS (SEE IRRIGATION PLAN SHEET IF PROVIDED). IF NO PLAN IS PROVIDED, THE CONTRACTOR SHALL SUBMIT A PROPOSED DESIGN TO THE LANDSCAPE ARCHITECT AND / OR ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. THE PROPOSED DESIGN MUST HAVE AN APPROVED BACKFLOW DEVICE, PROVIDE 100% HEAD-TO-HEAD COVERAGE, AND A RAIN SENSOR INSTALLED TO STOP IRRIGATION DURING RAIN EVENTS. CONTRACTOR SHALL ENSURE THAT THERE IS POSITIVE DRAINAGE AND NO PONDING OF WATER AT ROOT AREA.
- ALL HARDSCAPE MATERIALS SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
- ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND FOUR INCHES OF TOPSOIL APPLIED. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR SHALL PROVIDE TOPSOIL (APPROVED BY THE OWNER) AS NEEDED. THE AREA SHALL THEN BE SEEDED / SODDED, FERTILIZED, MULCHED, WATERED, AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. ANY RELOCATED TREES SHALL BE MAINTAINED UNTIL SUCH POINT AS TREE IS RE-ESTABLISHED. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE PROJECT SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES AND SHALL AVOID DAMAGE TO ALL UTILITIES DURING THE COURSE OF THE WORK. LOCATIONS OF EXISTING BURIED UTILITY LINES SHOWN ON THE PLANS ARE BASED UPON BEST AVAILABLE INFORMATION AND ARE TO BE CONSIDERED APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR 1) TO VERIFY THE LOCATIONS OF UTILITY LINES AND ADJACENT TO THE WORK AREA, 2) TO PROTECT OF ALL UTILITY LINES DURING THE CONSTRUCTION PERIOD, AND 3) TO REPAIR ANY AND ALL DAMAGE TO UTILITIES, STRUCTURES, SITE APPURTENANCES, ETC. WHICH OCCURS AS A RESULT OF THE CONSTRUCTION AT NO COST TO THE OWNER.
- WEED MAT IS REQUIRED IN LANDSCAPED ISLANDS AS SPECIFIED.
- ALL PLANT MATERIAL QUANTITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETE COVERAGE OF ALL PLANTING BEDS AT SPACING SHOWN.
- IF A SWPPP PLAN IS PROVIDED, THIS PLAN IS TO BE IMPLEMENTED COOPERATIVELY WITH SWPPP PLAN (AS NEEDED), TO MAXIMIZE THE EFFECTIVENESS OF THE SWPPP PLAN FOR THIS SITE.
- THE CONTRACTOR IS ENCOURAGED TO COMPLETE TEMPORARY OR PERMANENT SEEDING OR SODDING IN STAGES FOR SOIL STABILIZATION AS AREAS ARE COMPLETED AFTER GRADING.

NOTES:

- DO NOT PRUNE TERMINAL LEADER. PRUNE CO-DOMINANT LEADERS, RUBBING OR CROSSED BRANCHES, OR EXCESSIVELY NARROW CROTCHED BRANCHES.



60A TREE PLANTING DETAILS

GENERAL PLANTING NOTES

- LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING ALL PLANTED AREAS. ALL DELETERIOUS MATERIALS SUCH AS ROCK, TRASH, CONSTRUCTION DEBRIS, AGGREGATE BASE MATERIAL, ASPHALT, ETC. SHALL BE REMOVED PRIOR TO ANY FILL OPERATIONS. FILL ALL PLANTING AREAS WITH CLEAN EARTHEN FILL. SOIL SHALL BE FREE OF HEAVY, STIFF CLAY AND ANY DELETERIOUS MATERIAL OVER ONE INCH IN SIZE. THE TOP SIX INCHES OF FILL MATERIAL STRIPPED FROM SITE MAY BE UTILIZED FOR PLANTER OR TOPSOIL FILL IF PRIOR APPROVAL HAS BEEN OBTAINED FROM THE OWNER'S REPRESENTATIVE AND / OR LANDSCAPE ARCHITECT.
- FINISH GRADE OF LANDSCAPE AREAS (TOP OF TURF AND MULCH) MUST BE GRADED TO 1/2" BELOW ADJACENT PAVEMENT SURFACES.
- LOCATE SHRUBS A DISTANCE OF HALF OF THEIR AVERAGE MATURE SPREAD AWAY FROM WALKS, STRUCTURES, CONCRETE PADS, ETC. CONTRACTOR TO LOCATE GROUND COVER PLANTINGS A MINIMUM OF 2' FROM WALKS, STRUCTURES, CONCRETE PADS, ETC.
- ALL LAWN AREAS NOT OTHERWISE BORDERED BY WALKS, OR OTHER STRUCTURES, SHALL HAVE MANUFACTURED EDGING AS REQUIRED.
- TREES PLANTED ADJACENT TO PUBLIC ROADS AND PEDESTRIAN SIDEWALKS SHALL BE PRUNED SUFFICIENTLY TO AVOID VISUAL BLOCKS TO INTERSECTING VEHICULAR ACCESS OR INTERFERENCE WITH PEDESTRIAN WALKWAYS. TREES WITH A 4" OR LARGER CALIPER SHALL BE PRUNED UP TO 6'-0" ABOVE PAVEMENTS.
- ALL TREES WITHIN 4' OF PAVED SURFACES (CURBS, WALLS, BUILDINGS, SIDEWALKS, ETC.) SHALL BE PROVIDED WITH A DEEP ROOT BARRIER CONTROL DEVICE OR EQUAL. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
- TOPSOIL DEPTH SHALL BE AS FOLLOWS:
PLANTER BEDS - 12" MINIMUM
GRASS / SOD AREAS - 4" MINIMUM (AFTER COMPACTION)
- BACKFILL ALL TREES, SHRUBS, GROUNDCOVER WITH A MIXTURE OF 2 PARTS NATIVE SOIL AND 1 PART SOIL CONDITIONING WITH WOOD MULCH.
- THE LANDSCAPE CONTRACTOR SHALL WATER TEST ALL PLANTING HOLES PRIOR TO PLANTING. IF HOLES DO NOT DRAIN PROPERLY, EXCAVATE FURTHER UNTIL IMPERMEABLE LAYER IS BREACHED. EXCAVATED PLANT PITS SHALL HAVE POSITIVE DRAINAGE. PLANT PITS (WHEN FULLY FLOODED WITH WATER) SHALL DRAIN WITHIN 1 HOUR OF FILLING. ENSURE THAT ALL PLANT PITS HAVE POSITIVE DRAINAGE.
- ALL PLANTING BEDS SHALL BE TREATED WITH A PRE-EMERGENT HERBICIDE. PRE-EMERGENT HERBICIDE SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS AND SHALL OCCUR AFTER TOPSOIL PLACEMENT, BUT PRIOR TO INSTALLATION OF PLANT MATERIALS AND MULCH.
- FERTILIZE ALL PLANTS AT THE TIME OF PLANTING WITH A TIME RELEASE FERTILIZER PER BRAND'S SPECIFIED APPLICATION RATES.
- ALL PLANTING BED SOILS SHALL BE AMENDED WITH 2" OF ORGANIC COMPOST.
- ALL TREES AND SHRUBS SHALL BE PLANTED IN SUCH A MANNER AS TO ENSURE THEIR SURVIVAL.
- ANY ROPE OR WIRE BINDING THE BALL SHALL BE CUT PRIOR TO PREVENT GIRDLING OF THE TREE. REMOVE WIRE, TWINE, AND BURLAP FROM THE TOP HALF OF ALL B&B PLANT MATERIAL.
- IF A NON-BIODEGRADABLE MATERIAL IS USED AROUND THE BALL, IT SHALL BE COMPLETELY REMOVED PRIOR TO BACKFILLING.
- PRIOR TO INSTALLATION, THE ROOTS OF CONTAINER GROWN STOCK SHALL BE SEPARATED OR SPLIT TO ENSURE PROPER ROOT DEVELOPMENT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY SCHEDULE AND PROTECTION BETWEEN DELIVERY AND PLANTING TO MAINTAIN HEALTHY PLANT CONDITIONS.
- ANY PLANT MATERIAL WHICH IS DISEASED, DISTRESSED, DEAD, OR REJECTED (PRIOR TO SUBSTANTIAL COMPLETION) SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, QUANTITY, AND SIZE MEETING ALL PLANT LIST SPECIFICATIONS. TREES & SHRUBS SHALL BE PLANTED AS SOON AS POSSIBLE AFTER DELIVERY.
- ALL TREES MUST BE STRAIGHT-TRUNKED, FULL-HEADED, AND MEET ALL REQUIREMENTS SPECIFIED.
- ALL TREES MUST BE STAKED AS SHOWN IN THE DETAILS.
- NO SUBSTITUTIONS OR ALTERNATIVES WILL BE ALLOWED FOR GROUND SURFACE MATERIALS UNLESS APPROVED IN WRITING BY THE OWNER'S REPRESENTATIVE AND / OR LANDSCAPE ARCHITECT.
- MAINTAIN 5' MINIMUM HORIZONTAL SEPARATION BETWEEN TREE PLANTINGS AND ALL UTILITIES UNLESS OTHERWISE SPECIFIED.
- TOP DRESSING SHALL BE PLACED IN ALL PLANT BEDS AND AROUND ALL TREES. SINGLE TREES OR SHRUBS SHALL HAVE TOP DRESSING TO THE OUTSIDE EDGE OF THE MANUFACTURED EDGING OR LANDSCAPE ISLAND. TOP DRESSING CAN BE WOOD MULCH, ROCK, OR ANY OTHER DECORATIVE MATERIAL SPECIFIED ON PLANS (SEE LANDSCAPE PLAN / DETAIL FOR TYPE).
- THE FOLLOWING PLANTING SEASONS ARE RECOMMENDED:
EVERGREEN SHRUBBERY: SPRING, SUMMER, FALL
DECIDUOUS SHRUBBERY & TREES: FALL
EVERGREEN TREES: SPRING, SUMMER, FALL

PLANT GUARANTEE, REPLACEMENT, & MAINTENANCE

- GUARANTEE:**
ACCEPTANCE OF GRADING AND SEEDING SHALL BE BY LANDSCAPE ARCHITECT AND / OR OWNER. THE CONTRACTOR SHALL ASSUME MAINTENANCE RESPONSIBILITIES UNTIL FINAL ACCEPTANCE. MAINTENANCE SHALL INCLUDE, BUT NOT LIMITED TO: WATERING, WEEDING, RE-SEEDING, AND OTHER OPERATIONS NECESSARY TO KEEP ALL LAWN AREAS IN A THRIVING CONDITION. UPON FINAL ACCEPTANCE, OWNER SHALL ASSUME ALL MAINTENANCE RESPONSIBILITIES. AFTER LAWN AREAS HAVE GERMINATED, AREAS WHICH FAIL TO SHOW A UNIFORM STAND OF GRASS FOR ANY REASON WHATSOEVER SHALL BE RE-SEEDED REPEATEDLY UNTIL ALL AREAS ARE COVERED WITH A SATISFACTORY STAND OF GRASS. MINIMUM ACCEPTANCE OF SEEDED LAWN AREAS MAY INCLUDE SCATTERED BARE SPOTS, NONE OF WHICH ARE LARGER THAN 1 SQUARE FOOT, AND WHEN COMBINED DO NOT EXCEED 2% OF TOTAL SEEDED LAWN AREA.
- REPLACEMENT:**
ANY PLANT UNDER THIS SPEC WHICH IS DEAD, MISSING, UNHEALTHY, OR OTHERWISE NOT ACCEPTABLE AND NOT IN SATISFACTORY GROWING CONDITION DURING CONSTRUCTION MAINTENANCE PERIOD, OR AT THE END OF THE GUARANTEE PERIOD, SHALL BE REMOVED FROM SITE AND REPLACED WITH SUITABLE, ACCEPTABLE PLANT AS SPECIFIED, WITHIN FIVE (5) DAYS.

THE CONTRACTOR SHALL COMPLETELY GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF TWO (2) YEARS BEGINNING ON THE DATE OF TOTAL ACCEPTANCE. THE CONTRACTOR SHALL PROMPTLY MAKE ALL REPLACEMENTS BEFORE OR AT THE END OF THE GUARANTEE PERIOD.
- MAINTENANCE:**
GENERAL CONTRACTOR SHALL PROVIDE ONE YEAR OF LANDSCAPE MAINTENANCE, FROM THE TIME THE PROJECT RECEIVES THE CERTIFICATE OF OCCUPANCY AND THEREAFTER, FOR ALL NEW LANDSCAPE. IF EXISTING LANDSCAPE EXISTS ON-SITE, GENERAL CONTRACTOR IS TO PROVIDE THE OPTION OF MAINTENANCE FOR THE OWNER'S REVIEW.

GENERAL HERBICIDES NOTES

- APPLICATION OF HERBICIDES SHALL BE IN COMPLIANCE WITH STATE PESTICIDES REGULATIONS. IT IS THE RESPONSIBILITY OF THE LANDSCAPE CONTRACTOR TO CONSULT WITH THE REGULATORY AGENCIES FOR LOCAL HERBICIDES APPLICATION REQUIREMENTS.
- IF THERE IS A DISCREPANCY BETWEEN STATE REGULATIONS AND ADDITIONAL REQUIREMENTS BELOW, MOST STRINGENT SHALL RULE.
- NO AERIAL APPLICATION OF HERBICIDES IS PERMITTED ON SITE.
- CARCINOGENS AND EPA TOXIC CATEGORY I AND II ARE PROHIBITED TO USE ON SITE.

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SALEM & IRBY
ROUNDAABOUT CONSTRUCTION
CONWAY, AR

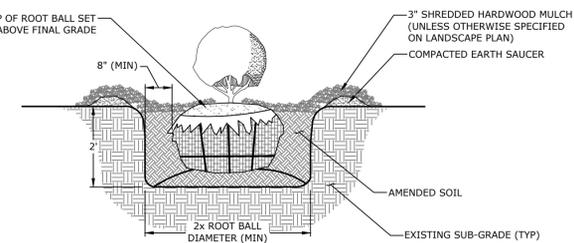


REV	DATE	DESCRIPTION

LANDSCAPE NOTES & DETAILS

DESIGNED BY: EH4	DRAWN BY: EH4
DATE: 03-24-2020	REVISION:
SCALE: N.T.S.	JOB NUMBER: 20-5749

60C SHRUB PLANTING DETAILS



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PROPOSED LEGEND

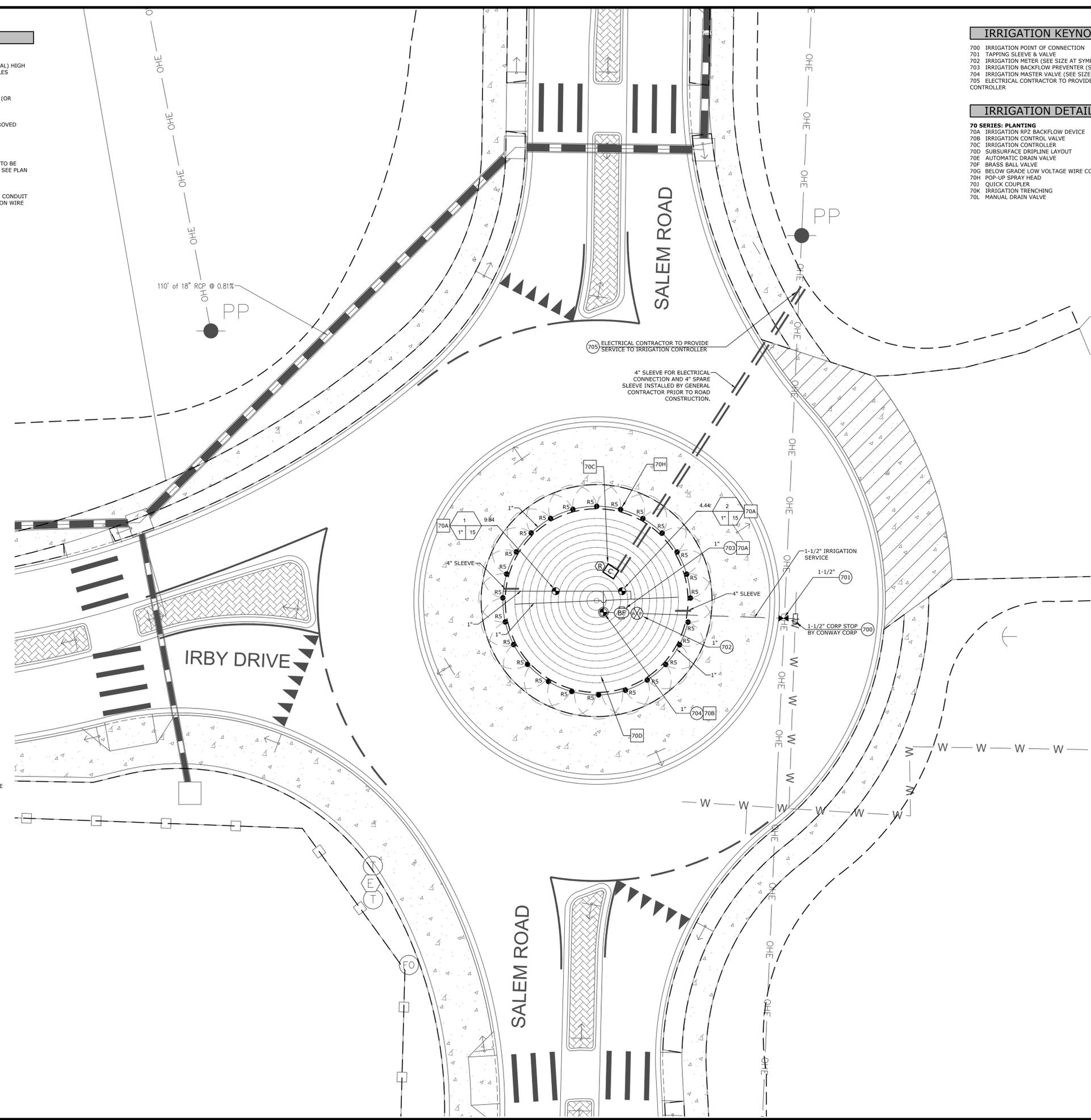
- SPRAY HEAD
RAIN BIRD 1800 SERIES (OR APPROVED EQUAL) HIGH EFFICIENCY W/ DUAL SPRAY & HEVAN NOZZLES
- PEB PLASTIC INDUSTRIAL VALVES
1" RAIN BIRD PEB (GLOBE CONFIGURATION) (OR APPROVED EQUAL)
- PEB PLASTIC INDUSTRIAL VALVES RAIN BIRD
1.5" PEB (GLOBE CONFIGURATION) (OR APPROVED EQUAL)
- REDUCED PRESSURE BACKFLOW PREVENTER
- IRRIGATION CONTROLLER
RAIN BIRD ESPLXME (OR APPROVED EQUAL) TO BE INSTALLED IN A STAINLESS STEEL CABINET. SEE PLAN FOR STATION COUNT.
- RAIN SENSING DEVICE
RAIN BIRD RSD-CEX (OR APPROVED EQUAL). CONDUIT MOUNT WITH THREADED ADAPTER, EXTENSION WIRE
- DOMESTIC / IRRIGATION METER
- SYSTEM MAINLINE
- LATERAL LINE
- PIPE SLEEVE
- DRIP LINE (RAINBIRD XFD)
FLOW RATE: 0.8 GPH
TUBE SPACING: 18"
EMITTER SPACING: 18"
- SHRUB PLANTING
- TREE PLANTING
- VALVE CALLOUT
VALVE NUMBER
VALVE FLOW
DESIGN PRESSURE (PSI)
VALVE SIZE
- STORM DRAIN
- CATCH BASIN
- SANITARY SEWER MANHOLE
- FLARED END SECTION
- GAS METER
- ELECTRIC METER
- FIRE DEPARTMENT CONNECTION
- FIRE HYDRANT
- POST INDICATOR VALVE
- WATER METER
- SANITARY SEWER MANHOLE
- CLEAN-OUT
- ELECTRIC TRANSFORMER
- POWER POLE/POWER POLE & GUY
- LIGHT POLE
- GAS LINE
- OVERHEAD ELECTRIC LINE
- OVERHEAD ELECTRIC & FIBER OPTIC LINE
- OVERHEAD ELECTRIC & TELEPHONE LINE
- OVERHEAD FIBER OPTIC LINE
- OVERHEAD TELEPHONE & FIBER OPTIC LINE
- OVERHEAD TELEVISION
- UNDERGROUND FIBER OPTIC LINE
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND ELECTRIC & FIBER OPTIC LINE
- UNDERGROUND ELECTRIC & TELEPHONE LINE
- UNDERGROUND TELEPHONE
- UNDERGROUND TELEVISION
- UNDERGROUND TELEPHONE & FIBER OPTIC LINE
- WATER LINE
- SANITARY SEWER LINE
- FORCE MAIN LINE
- ELECTRICAL PEDESTAL
- TELEPHONE PEDESTAL
- TRAFFIC SIGNAL PEDESTAL

IRRIGATION KEYNOTES

- 700 IRRIGATION POINT OF CONNECTION
- 701 TAPPING SLEEVE & VALVE
- 702 IRRIGATION METER (SEE SIZE AT SYMBOL) (PER LOCAL CODES)
- 703 IRRIGATION BACKFLOW PREVENTER (SEE SIZE AT SYMBOL) (PER LOCAL CODES)
- 704 IRRIGATION MASTER VALVE (SEE SIZE AT SYMBOL)
- 705 ELECTRICAL CONTRACTOR TO PROVIDE POWER SUPPLY FOR IRRIGATION CONTROLLER

IRRIGATION DETAILS

- 70 SERIES: PLANTING**
- 70A IRRIGATION RPZ BACKFLOW DEVICE
 - 70B IRRIGATION CONTROL VALVE
 - 70C IRRIGATION CONTROLLER
 - 70D SUBSURFACE DRIPLINE LAYOUT
 - 70E AUTOMATIC DRAIN VALVE
 - 70F BRASS BALL VALVE
 - 70G BELOW GRADE LOW VOLTAGE WIRE CONNECTION
 - 70H POP-UP SPRAY HEAD
 - 70J QUICK COUPLER
 - 70K IRRIGATION TRENCHING
 - 70L MANUAL DRAIN VALVE



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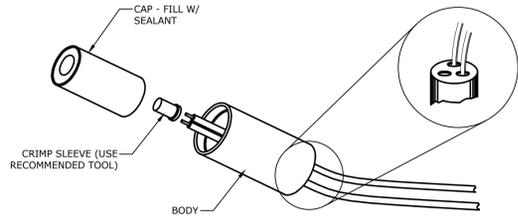
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REV	DATE	DESCRIPTION

IRRIGATION PLAN

DESIGNED BY: EH4	DRAWN BY: EH4
DATE: 03-24-2020	REVISION:
SCALE: 1" = 10'	JOB NUMBER: 20-5749

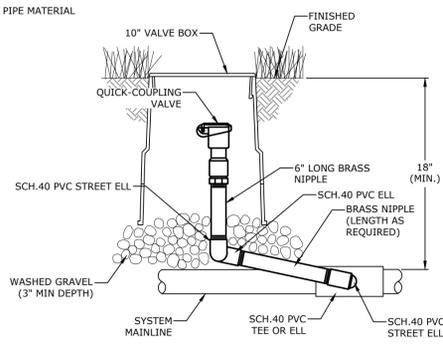
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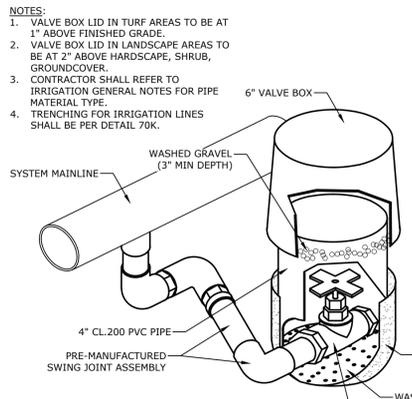
70G BELOW GRADE LOW VOLTAGE WIRE CONNECTION
NTS

- NOTES:
1. CONTRACTOR SHALL REFER TO IRRIGATION GENERAL NOTES FOR PIPE MATERIAL TYPE.
2. TRENCHING FOR IRRIGATION LINES SHALL BE PER DETAIL 70K.

- NOTES:
1. VALVE BOX LID IN TURF AREAS TO BE AT 1" ABOVE FINISHED GRADE.
2. VALVE BOX LID IN LANDSCAPE AREAS TO BE AT 2" ABOVE HARDSCAPE, SHRUB, GROUND COVER.
3. CONTRACTOR SHALL REFER TO IRRIGATION GENERAL NOTES FOR PIPE MATERIAL TYPE.
4. TRENCHING FOR IRRIGATION LINES SHALL BE PER DETAIL 70K.

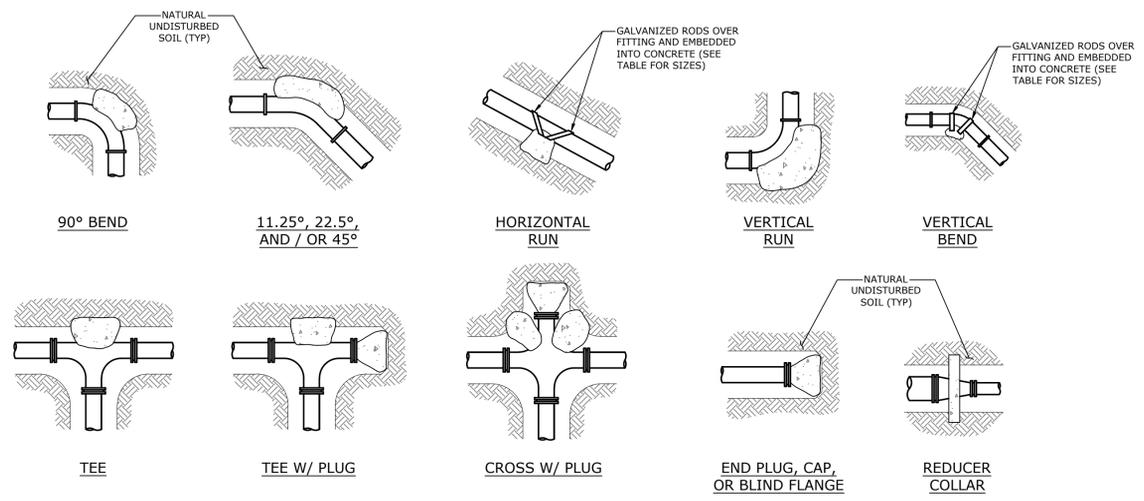


70J QUICK COUPLER
NTS



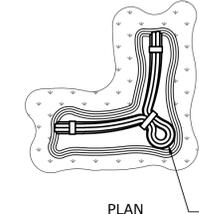
70L MANUAL DRAIN VALVE
NTS

- NOTES:
1. CONCRETE FOR THRUST BLOCKS SHALL DEVELOP NOT LESS THAN 2500 P.S.I. COMPRESSIVE STRENGTH AT 28 DAYS AND BE PLACED AGAINST UNDISTURBED SOIL.
2. ALL BENDS, BOTH HORIZONTAL AND VERTICAL, SHALL BE BACKED WITH CONCRETE. VERTICAL BENDS SHALL BE PLACED ON CONCRETE PADS WHERE BENDS TURN UP, OR LOADED WHERE BENDS TURN DOWN.
3. WRAP PIPE JOINTS IN 8 MIL POLYETHYLENE BEFORE PLACING CONCRETE. USE LONG-RADIUS FITTINGS WHEREVER POSSIBLE.
4. BEARING AREA SHOWN IN TABLE, IS BASED UPON A 2000 LB/SF. SOIL BEARING, AND UPON A PIPELINE PRESSURE OF 250 PSI PLUS WATER HAMMER. AREAS SHOWN SHALL BE ADJUSTED, SHOULD FIELD CONDITIONS VARY.
5. UTILIZE MEGALUG THRUST RESTRAINTS ON MECHANICAL JOINT FITTINGS AND VALVES, IN ADDITION TO THESE THRUST BLOCKS.

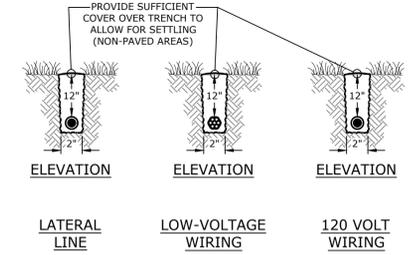


70K IRRIGATION TRENCHING
NTS

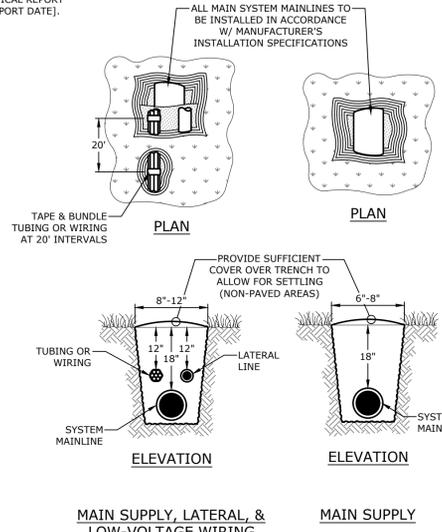
- NOTES:
1. CONTRACTOR SHALL COMPLY WITH ALL LOCAL CODES AND ORDINANCES IN REFERENCE TO THE INSTALLATION OF PVC PIPING AND LOW VOLTAGE WIRING.
2. FOR AREAS WHERE PIPE IS LOCATED UNDER NON-PAVED AREAS, BACKFILL SHALL BE COMPACTED SUITABLE NATIVE MATERIAL (DO NOT INCORPORATE FROZEN MATERIAL OR SOFT, MUCK, OR HIGHLY COMPRESSIBLE MATERIALS INTO FILL). FOR AREAS WHERE PIPE IS LOCATED UNDER PAVED AREAS, BACKFILL SHALL BE SELECT FILL COMPACTED PER THE GEOTECHNICAL REPORT PROJECT NO. [PROJECT #] PREPARED BY [GEOTECH COMPANY NAME] DATED [REPORT DATE].



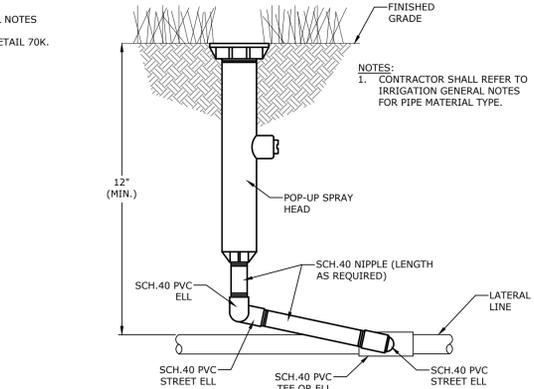
70M TIE A LOOSE 20\"/>



70N PROVIDE SUFFICIENT COVER OVER TRENCH TO ALLOW FOR SETTLING (NON-PAVED AREAS)



70O MAIN SUPPLY, LATERAL, & LOW-VOLTAGE WIRING



70H POP-UP SPRAY HEAD
NTS

- NOTES:
1. CONTRACTOR SHALL REFER TO IRRIGATION GENERAL NOTES FOR PIPE MATERIAL TYPE.

BEARING AREA OF THRUST BLOCKING (SQ. FT.) (HORIZONTAL BENDS)										VOLUME OF THRUST BLOCKING (CU. FT.) (VERTICAL BENDS)				
FITTING SIZE	TEE, WYE, PLUG, OR CAP	90° BEND, PLUGGED CROSS	TEE PLUGGED ON RUN (A1)	TEE PLUGGED ON RUN (A2)	BEND ANGLES			FITTING SIZE	BEND ANGLES			ROD SIZE	EMBEDMENT	CUBIC YARDS
					45°	22.5°	11.25°		45°	22.5°	11.25°			
2", 3", & 4"	1.30	1.80	1.30	1.80	1.00	1.0	-	2", 3", & 4"	1.50	0.5	0.3	#6	30"	-
6"	2.80	4.00	2.80	4.00	2.20	1.1	1.0	6"	3.60	1.3	0.5	#6	30"	-
8"	5.00	7.10	5.00	7.10	3.80	2.0	1.0	8"	5.30	2.0	0.8	#6	30"	0.6
10"	7.90	11.10	7.90	11.10	6.00	3.0	1.6	10"	8.00	3.1	1.2	#6	30"	-
12"	11.30	16.00	11.30	16.00	8.70	4.4	2.3	12"	11.30	4.3	1.7	#6	30"	1.3

40A THRUST BLOCKING
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REVISIONS		DESCRIPTION
REV	DATE	

IRRIGATION DETAILS

DESIGNED BY: E4H
DATE: 03-24-2020
SCALE: N.T.S.
DRAWN BY: E4H
REVISION:
JOB NUMBER: 20-5749

L6