18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT

LEWISTON, IDAHO

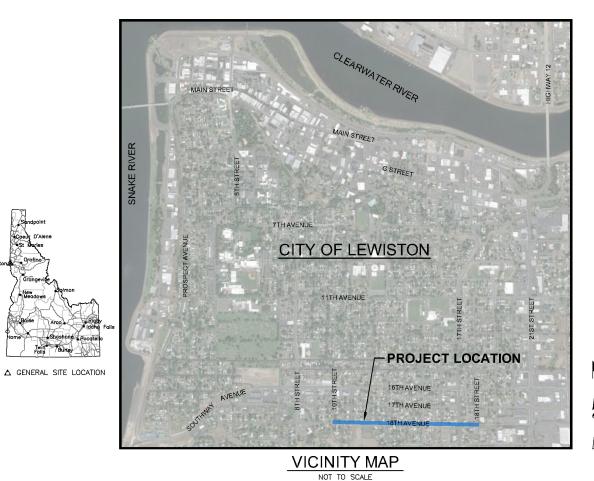
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SCHE	DULE OF ABBREVIATIONS
ABBREVIATION	DESCRIPTION
ADA	AMERICANS WITH DISABILITIES ACT
APPROX.	APPROXIMATE
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
AVE.	AVENUE
BMP	BEST MANAGEMENT PRACTICES
CLM	CENTERLINE MONUMENT
CP	CONTROL POINT
DWG.	DRAWING
E	EAST
EXIST.	(EX) EXISTING
FG	FINISHED GRADE
FT.	FEET
L.F.	LINEAR FEET
MAX.	MAXIMUM
MIN.	MINIMUM
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
N	NORTH
NO.	NUMBER
PVIE	POINT OF VERTICAL INTERSECTION ELEVATION
PIVS	POINT OF VERTICAL INTERSECTION STATION
PROP.	PROPOSED
NO.	NUMBER
P/L	PROPERTY LINE
RAD	RADIUS
RT.	RIGHT
S	SOUTH
STA.	STATION
STD.	STANDARD
TYP.	TYPICAL
w	WEST

UTILITY LOCATION

THE LOCATIONS OF UNDERGROUND UTILITIES REPRESENTED ON THIS DRAWING HAVE BEEN DETERMINED FROM A FIELD SURVEY AND FROM RECORDS OBTAINED FROM THE VARIOUS UTILITY COMPANIES. THE NUMBER AND LOCATIONS OF ALL UNDERGROUND UTILITIES SHOWN ARE FOR INFORMATIONAL PURPOSES ONLY. FOR YOUR SAFETY, STATE LAW REQUIRES THAT YOU CALL THE LOCAL "ONE-CALL" UNDERGROUND UTILITY LOCATING CENTER AT LEAST TWO WORKING DAYS BEFORE BEGINNING ANY EXCAVATION: 1-800-342-1585

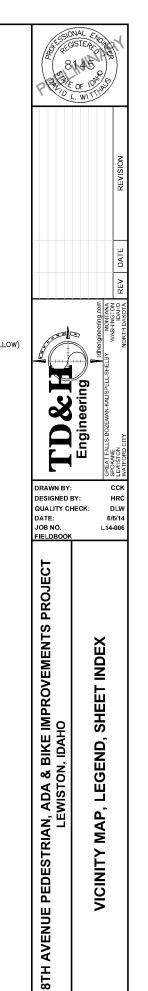
"CALL BEFORE YOU DIG"



GENERAL NOTES

- THE CONTRACTOR SHALL INVESTIGATE ON SITE AND VERIFY ALL CONDITIONS AND DIMENSIONS OF THE PROJECT AND SHALL NOTIFY
 THE ENGINEER OF ANY DISCREPANCY IN THE CONTRACT DOCUMENTS REQUIRING MODIFICATION PRIOR TO PROCEEDING.
- 2) THE CONTRACTOR SHALL COORDINATE THE WORK SCHEDULE SO AS TO HAVE A MINIMUM IMPACT ON THE EXISTING TRAFFIC.
- 3) SITE DISTANCES FOR ABUTTING PROPERTIES, DRIVEWAYS, AND INTERSECTIONS MUST BE MAINTAINED.
- 4) THE CONTRACTOR SHALL TAKE ALL NECESSARY PREVENTATIVE MEASURES TO PROTECT THE EXISTING IMPROVEMENTS. ANY DAMAGE SHALL BE REPLACED AT NO COST TO THE OWNER.
- 5) OWNER'S PROPERTY CORNERS SHALL BE PROTECTED AT ALL TIMES, AND THE CONTRACTOR SHALL RETAIN THE SERVICES OF A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF IDAHO TO REFERENCE ALL CORNERS. UPON COMPLETION OF THE PROJECT, ALL EXISTING CORNERS DAMAGED BY CONSTRUCTION SHALL BE REPLACED BY A PROFESSIONAL LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.
- 6) A RIGHT-OF-WAY PERMIT SHALL BE OBTAINED THROUGH THE PUBLIC WORKS DEPARTMENT PRIOR TO ANY WORK BEGINNING WITHIN PUBLIC RIGHT-OF-WAY.
- 7) THE CONTRACTOR SHALL PAY FOR AND SECURE ALL NECESSARY PERMITS AND FEES.
- 8) ALL WORK SHALL CONFORM TO STATE AND LOCAL CODES AND CONFORM TO THE CITY OF LEWISTON STANDARD DRAWINGS AND IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC) EXCEPT AS OTHERWISE SPECIFIED OR APPROVED BY THE ENGINEER. ALL CONSTRUCTION NOT SPECIFICALLY MENTIONED OR SHOWN SHALL CONFORM TO CITY OF LEWISTON ORDINANCES AND STANDARDS.
- 9) UPON COMPLETION, CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS, COMPLETE WITH ELEVATIONS, TO THE ENGINEER OF RECORD.
- 10) THIS PROJECT SHALL BE GUARANTEED BY THE CONTRACTOR FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE OF ALL WORK. ANY DEFECTS IN MATERIAL OR WORKMANSHIP WITHIN THIS PERIOD SHALL BE IMMEDIATELY CORRECTED BY THE CONTRACTOR AT NO COST TO THE OWNER.

LEGEND PROPOSED EXISTING DESCRIPTION ASPHALT ASPHALT (EDGE OF) CATCH BASIN CONCRETE CURB (STRAIGHT) DETECTABLE WARNING PLATE (YELLOW) ELECTRICAL BOX FIBER OPTIC - OVERHEAD FIRE HYDRANI **GRAVEL** GRAVEL EDGE OF LANDSCAPE AREA (LIGHT GREEN) LIGHT POLE MAILBOX 0 MANHOLE MONUMENT POWER POLE PROPERTY LINE RIGHT-0F-WAY LINE RETAINING WALL SPEED CUSHION STORMORAIN PIPE Т TELEPHONE RISER TRAFFIC SIGN 後の TREE - CONIFEROUS \blacksquare WATER METER VALVE



G-1

FINAL DESIGN

SUMMARY OF QUANTITIES

	Total		
Item No.	Project Quantity	Unit	Item
			1
			Division 200 - Earthwork
201.4.1.B.1	1	LS	Clearing and Grubbing
201.4.1.D.1.1	545	SY	Removal of Sidewalk
201.4.1.D.1.2	2,870	SY	Removal of Asphalt Pavement
201.4.1.E.1.1	1,112	LF	Removal of Curb and Gutter
201.4.1.E.1.2	56	LF	Removal of Fence
201.4.1.F.1.1	1	EA	Removal of Tree
201.4.1.F.1.2	11	EA	Removal of Mailbox
201.4.1.F.1.3	3	EA	Removal of Catch Basin
			Division 300 - Trenching
			Division 300 - Henching
301.4.1.A.1	130	LF	Trench Excavation
305.4.1.A.3	130	LF	Class A-2 Pipe Bedding for 12" Diam. Pipe
			Division 600 - Culverts and Storm Drains
601.4.1.A.17	130	LF	12" Storm Drain Pipe - Type S CPP
001.4.1.7.17	100	L-1	
602.4.1.F.1.1	3	EΑ	Catch Basin - Type I
602.4.1.F.1.2	3	EA	Catch Basin - Type IA
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			Division 700 - Concrete
706.4.1.A.3	855	LF	Vertical Curb (No Gutter)
706.4.1.A.7	1,735	LF	Curb and Gutter
706.4.1.E.1	760	SY	Concrete Sidewalks, 4"
706.4.1.F.1	406	SY	Concrete Driveway Approach
706.4.1.H.1	23	EA	Ped. Ramp w/Det. Warning Domes
			Division 800 - Aggregates and Asphalt
810.4.1.A.3	2,550	SY	Plant Mix Pavement

	Total Project		
Item No.	Quantity	Unit	Item
			Division 1000 - Construction Stormwater BMPs
1001 1 1 1 1			0-4:
1001.4.1.A.1	1	LS	Sediment Control
			Division 1100 - Traffic
1103.4.1.A.1	1	LS	Construction Traffic Control
4404444	0.000		
1104.4.1.A.1 1104.4.1.B.1	2,928	SF	Pavement Line Paint or Painted Pavement Markings
1104.4.1.B.1	496	SF	Thermoplastic Pavement Markings
1105.4.1.A.1	183	SF	Permanent Signing
1105.4.1.E.1	30	EA	Sign Post
			Division 2000 - Miscellaneous
2010.4.1.A.1	1	LS	Mobilization
2010.4.1.A.1	1	LS	MODILIZATION
2020.4.1.F.1	4	EA	Reference and Reset Monuments
2030.4.1.C.1	3	EΑ	Valve Box, Adjust to Grade
2030.4.1.D.1	6	EA	Miscellaneous Utility, Adjust to Grade
0040 4 4 4 4			W I-
2040.4.1.A.1 2040.4.1.B.1	50 1	LF EA	Wood Fence Man Gate
2040.4.1.B.1	1	EA	Man Gate
SSP 00001	3,835	SF	Landscaping
SSP 00002	5	***************************************	Speed Cushion
SSP 00003	5	EA	Mailbox Cluster
SSP 00004	9	EA	Remove and Reset Existing Sign
SSP 00005	1	EA	Lit Pedestrian Crossing Sign
SSP 00006	10	EA	Wayfinding Sign and Post
SSP 00007	4	EA	Flag-a-Ride Sign and Post



QUALITY CHECK:

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT LEWISTON, IDAHO

L14-006 G-2 .DWG
SHEET **G-2**

QUANTITY TABULATION

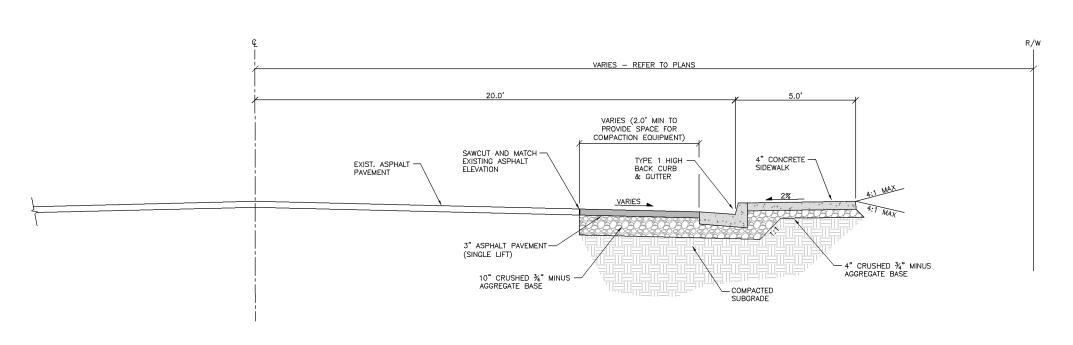
				D	ivision	200 - E	arthw	ork			on 300 nching	Cu	vision 60 Ilverts a orm Dra	nd	Di	vision	700 -	Concre		Division 800 - Asphalt	Divis	sion 11	00 - Tr	a ffic		Division 2000 - Miscellaneous										
			Removal of Sidewalk	Removal of Asphalt	Removal of Curb and Gutter	Removal of Fence	Removal of Tree	Removal of Mailbox	Removal of Catch Basin	Trench Excavation	Class A-2 Pipe Bedding for 12" Diam. Pipe	12" Storm Drain Pipe - Type S CPP	Catch Basin - Type I	Catch Basin - Type IA	Vertical Curb (No Gutter)	Ourb and Gutter	Concrete Sidewalks, 4"	Concrete Driveway Approach	Ped. Ramp w/Det. Waming Domes	Plant Mix Pavement	Favement Line Faint of Painted Pavement Markings	Thermoplastic Pavement Markings	Permanent Signing	Sign Post	Reference and Reset Monuments	Valve Box, Adjust to Grade	Miscellaneous Utility, Adjust to Grade	Wood Fence	Man Gate	Landscaping	Speed Cushion	Mailbox Cluster	Remove and Reset Existing Sign	Lit Pedestrian Crossing Sign	Wayfinding Sign and Post	Flag-a-Ride Sign and Post
			201.4.1.D.1.1	201.4.1.D.1.2	201.4.1.E.1.1	201.4.1.E.1.2	201.4.1.F.1.1	201.4.1.F.1.2	201.4.1.F.1.3	301.4.1.A.1	305.4.1.A.3	601.4.1.A.17	602.4.1.F.1.1	602.4.1.F.1.2	706.4.1.A.3	706.4.1.A.7	706.4.1.E.1	706.4.1.F.1	706.4.1.H.1	810.4.1.A.3	1104.4.1.A.1	1104.4.1.B.1	1105.4.1.A.1	1105.4.1.E.1	2020.4.1.E.1 2030.4.1.C.1 2030.4.1.D.1 2040.4.1.A.1 2040.4.1.B.1 SSP 00001 SSP 00003				SSP 00003	SSP 00004	SSP 00005	SSP 00006	SSP 00007			
	Dwg. No.	Station & Offset	SY	SY	LF	LF	EA	EA	EA	LF	LF	LF	EA	EA	LF	LF	SY	SY	EA	SY	SF	SF	SF	EA	EA	EA	EA	LF	EA	SF	EA	EA	EA	EA	EA	EA
	R-1	17+60 to 22+00	147	297	248	-	-	3	-	-	-	-	-	-	51	252	75	119	-	187					1	-	1	-	-	485	1	2				
' D	R-2	22+00 to 26+00	13	13	26	-	-	-	-	-	-	-			-	26	13	-	-	13					-	-	-	-	-	-	1	-				
	R-3	26+00 to 30+00	37	250	146	-	-	3	3	74	74	74			96	155	60	23	2	183					1	-	-	-	-	255	-	1				
ī >	R-4	30+00 to 34+00	102	357	189	-	-	5	-	-	-	-			96	196	116	43	3	288					-	-	-	-	-	719	-	2				
away	R-5	34+00 to 38+00	72	376	48	-	1	-	-	-	-	-			88	328	133	126	2	402					1	-	2	-	-	590	1	-				
m	R-6	38+00 to 42+00	98	469	239	-	-	-	-	-	-	-			103	241	83	65	2	374					1	1	3	-	-	445	1	-				
	R-7	42+00 to 46+00	59	919	173	56	-	-	-	56	56	56			388	341	187	30	12	898		***************************************			-	1	-	50	1	794	1	-				
	R-8	46+00 to 48+00	17	189	43	-	-	-	-	-	-	-	-	-	33	196	93	-	2	205					-	1	-	-	-	547	-	-				
	T-1	17+60 to 22+00																			495	-	36	6									-	-	3	1
T ans	T-2	22+00 to 26+00																			453	-	11	2									-	-	-	-
D D	T-3	26+00 to 30+00																			320	-	25	4									-	-	-	1
	T-4	30+00 to 34+00					1			1	•										402	112	6	1									3	-	4	-
	T-5	34+00 to 38+00		*			\$		·	••••••	·	•••••									320	-	36	6									2	-	-	1
Б Я	T-6	38+00 to 42+00																			329	-	36	6									1	-	2	-
g	T-7	42+00 to 46+00		1																	494	384	33	5									2	1	-	1
ī	T-8	46+00 to 48+00																			115	-	-	-									1	-	1	-
		TOTAL	545	2,870) 1,112	. 56	1	11	3	130	130	130	3	3	855	1,735	760	406	23	2,550	2,928	496	183	30	4	3	6	50	1	3,835	5	5	9	1	10	4



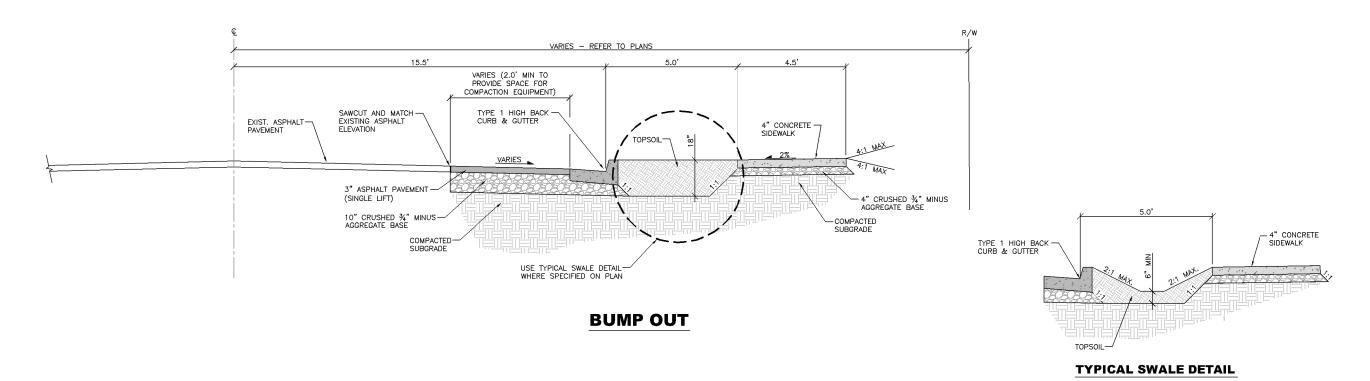
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18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT LEWISTON, IDAHO

L14-006 G-3 .DWG



TYPICAL CURB, GUTTER AND SIDEWALK ADDITION

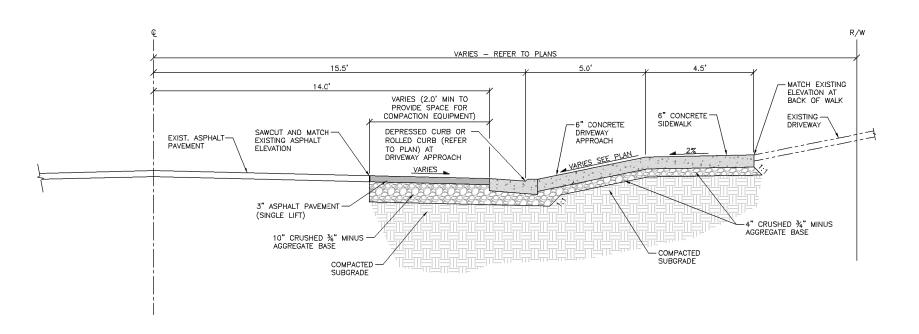


FINAL DESIGN

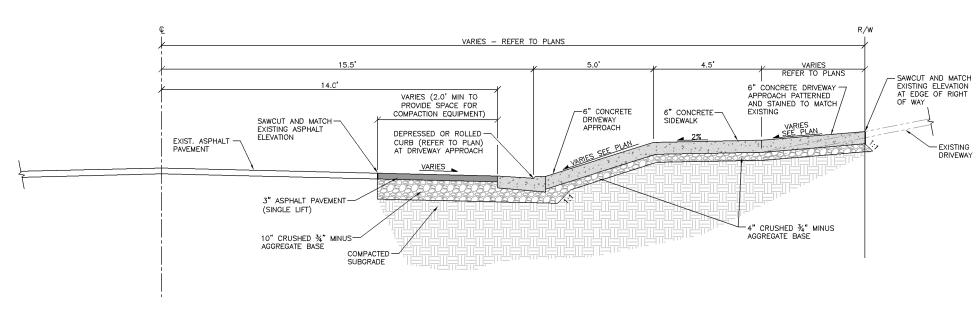
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L14-006 G-4 .DWG G-4

SHEET

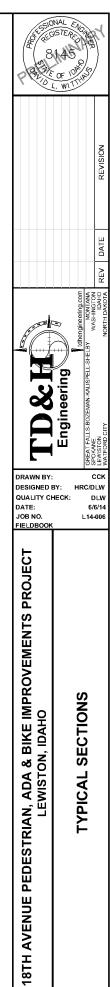


BUMPOUT AT DRIVEWAY (MATCH AT BACK OF WALK)



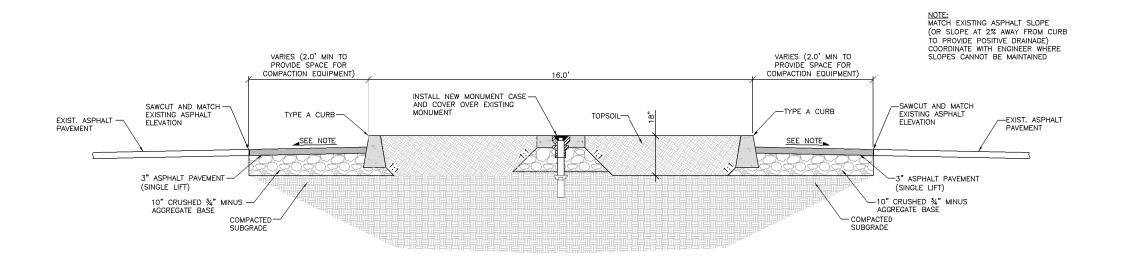
BUMPOUT AT DRIVEWAY (MATCH AT EDGE OF RIGHT OF WAY)

FINAL DESIGN

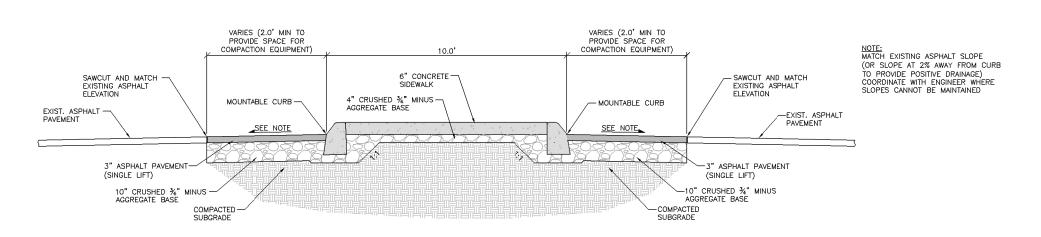


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SHEET G-5



TRAFFIC CIRCLE



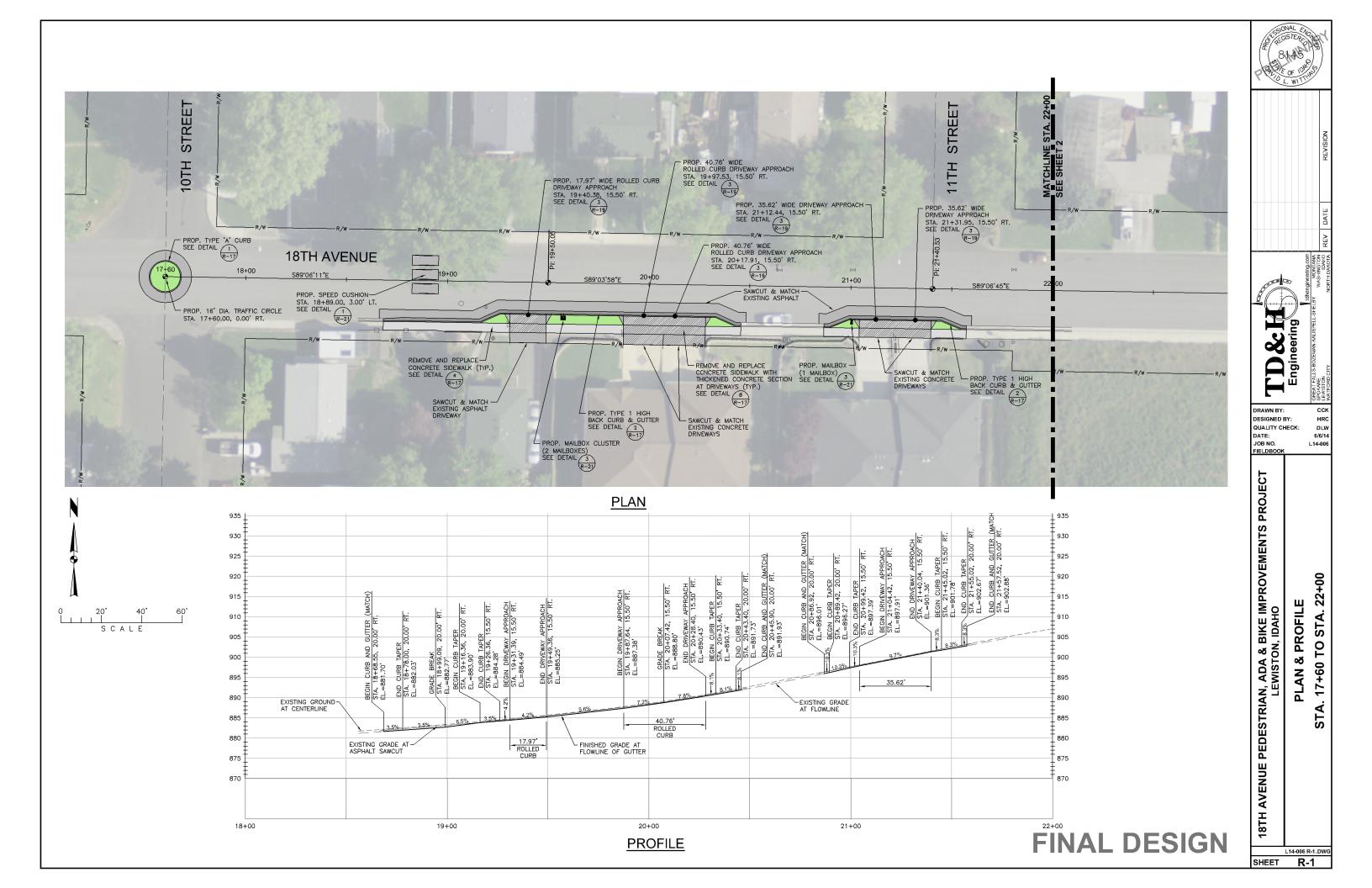
BOULEVARD CROSS SECTION

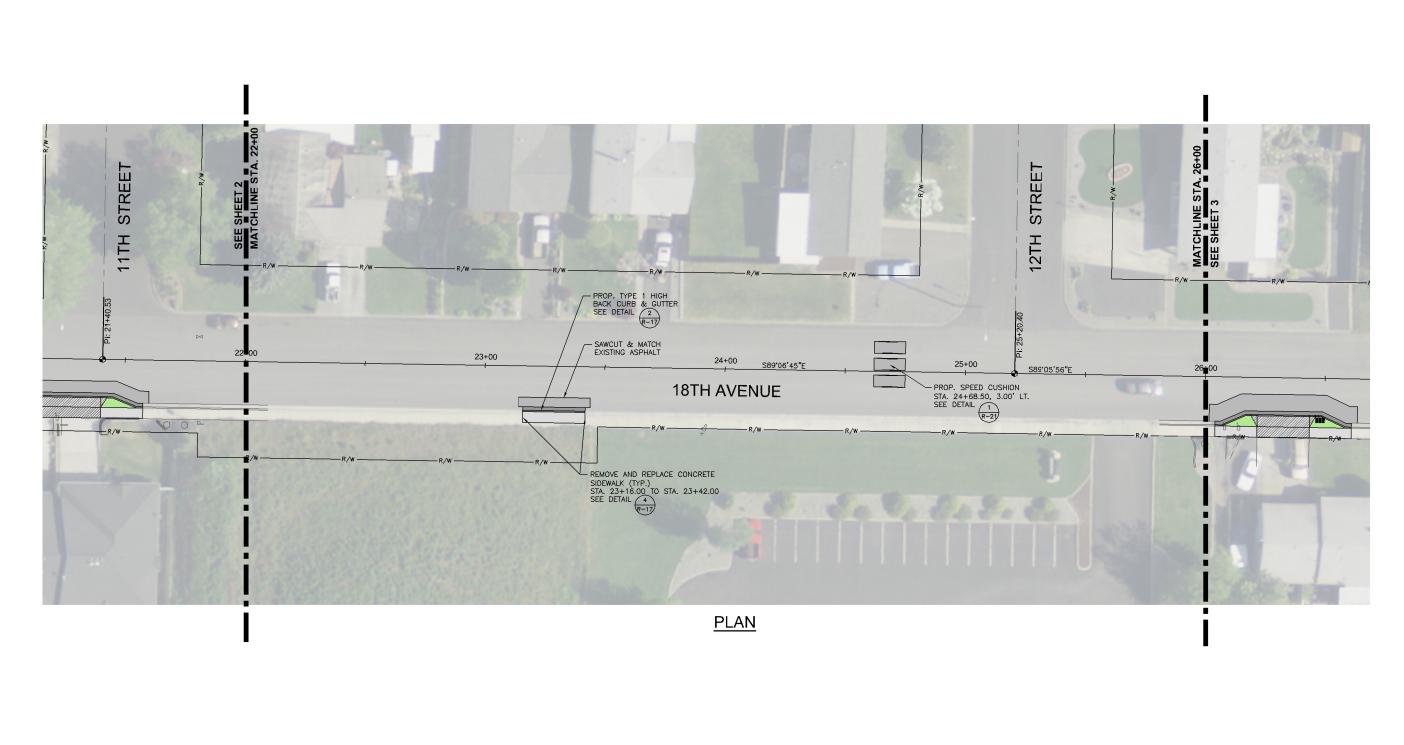
FINAL DESIGN

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G-6



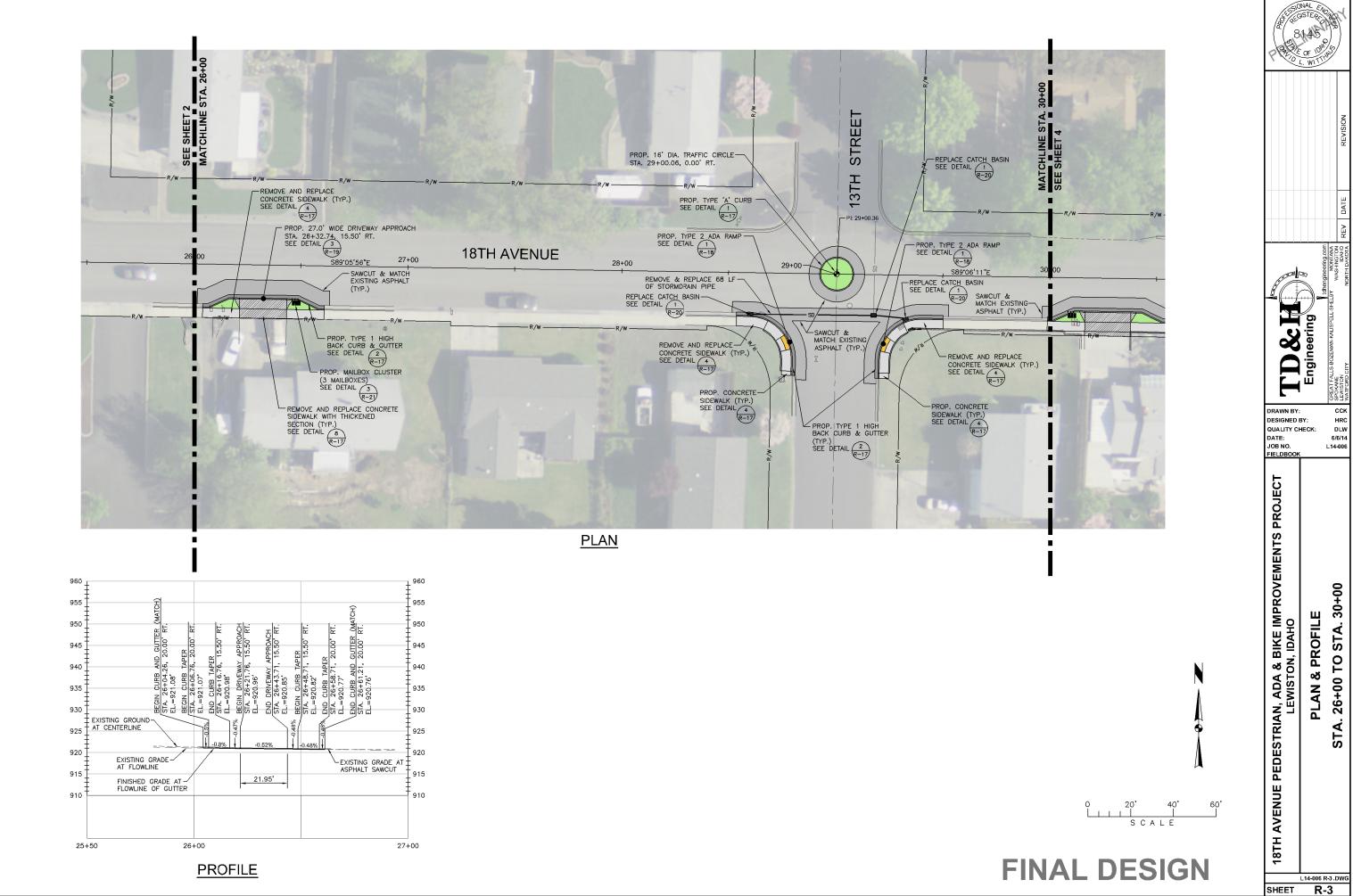


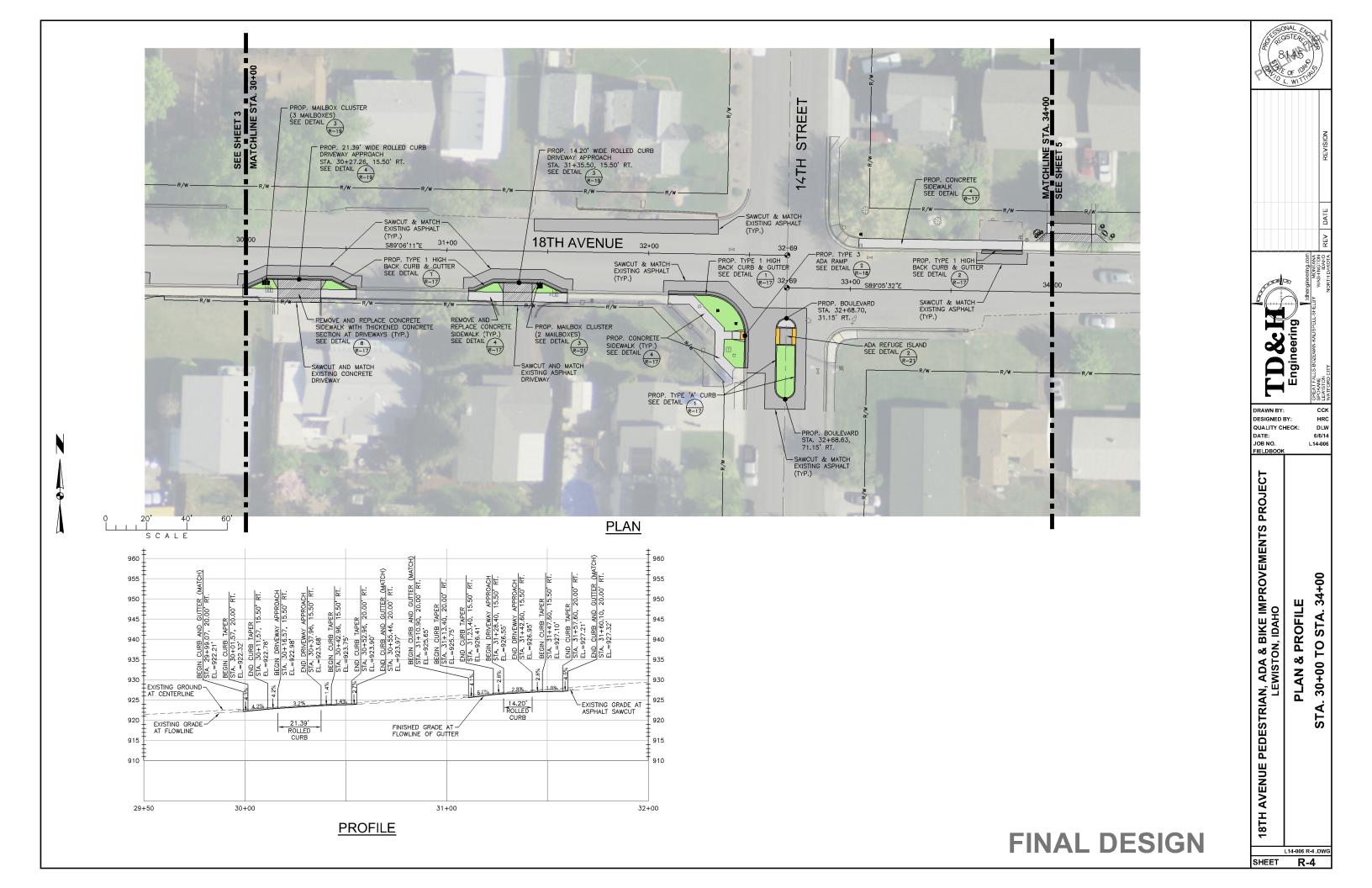
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DESIGNED BY:
QUALITY CHECK:
DATE:
JOB NO.
FIELDBOOK CCK HRC DLW 6/6/14 L14-006 18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT LEWISTON, IDAHO STA. 22+00 TO STA. 26+00 PLAN & PROFILE

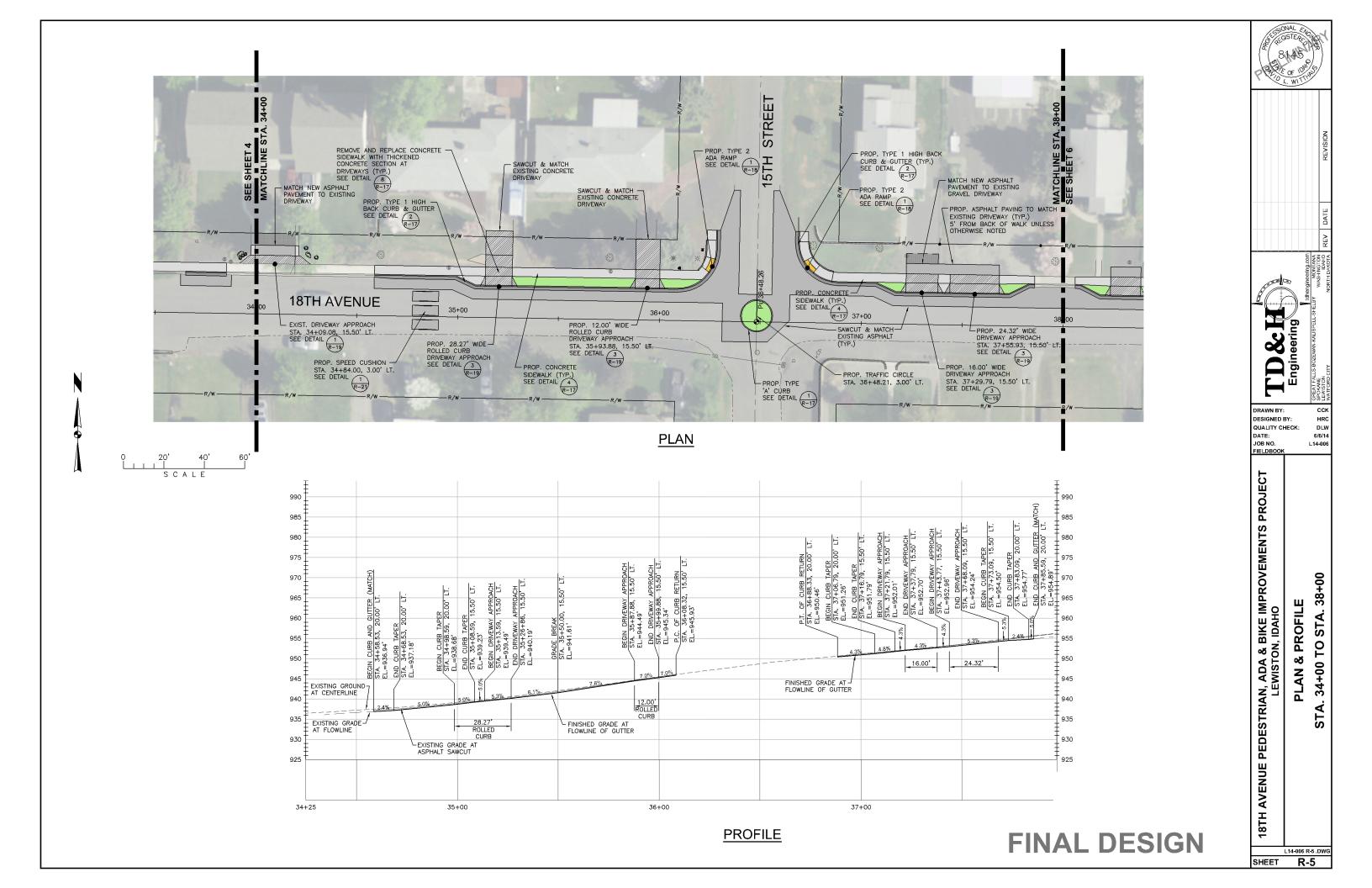
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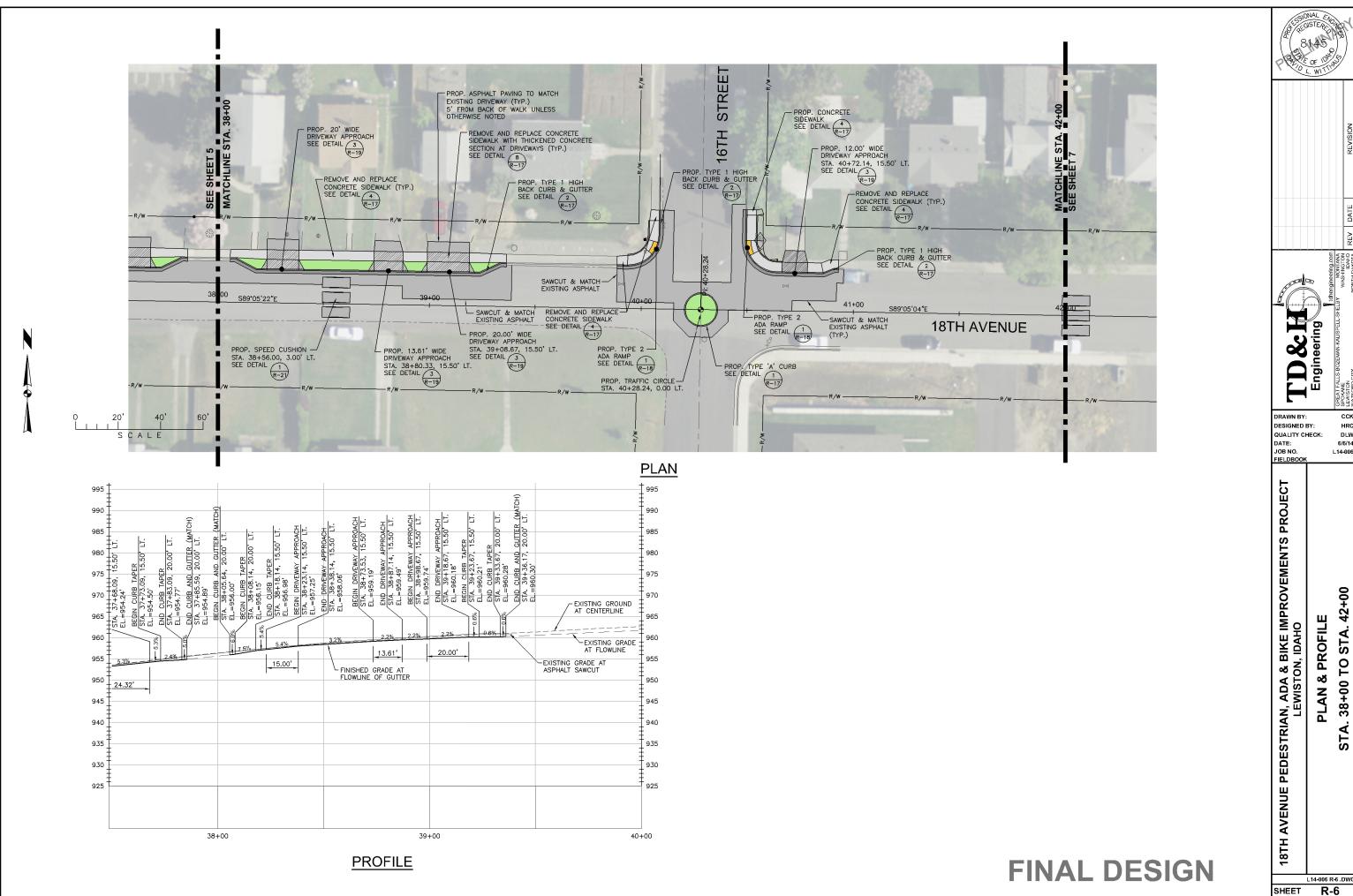
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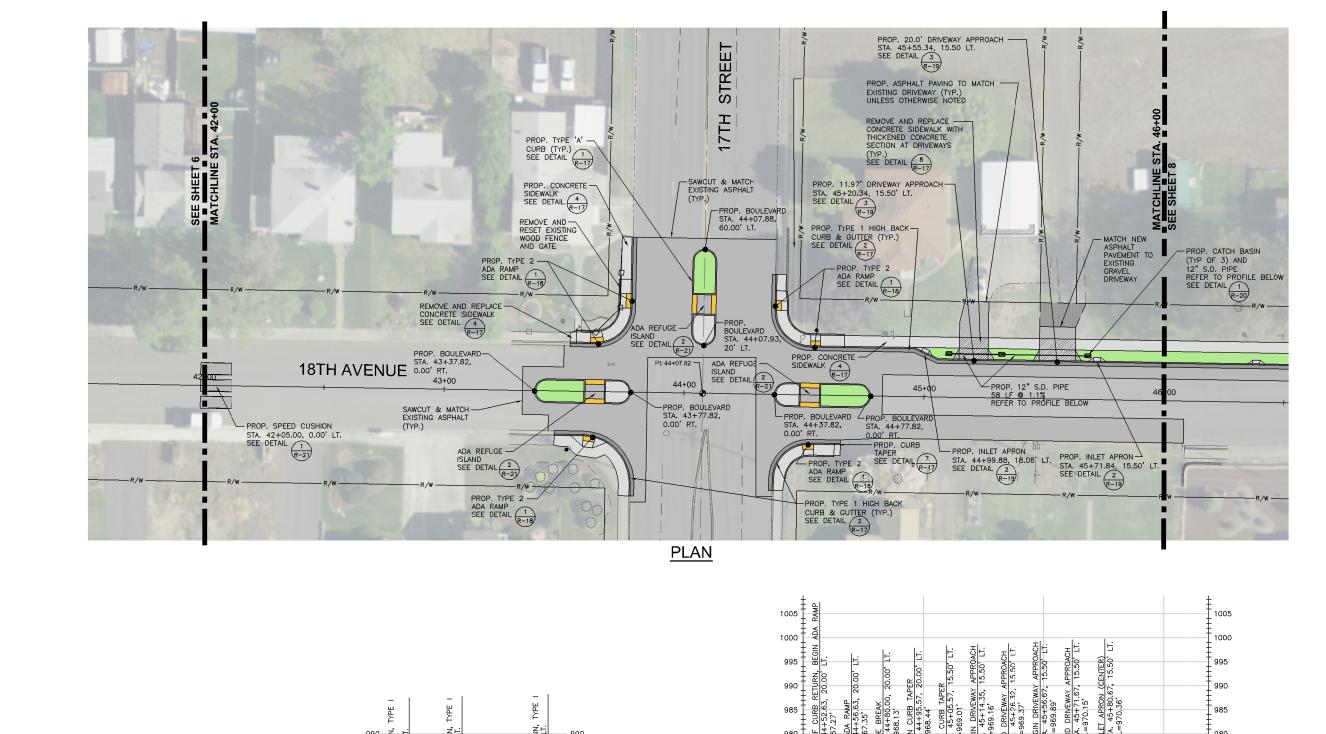


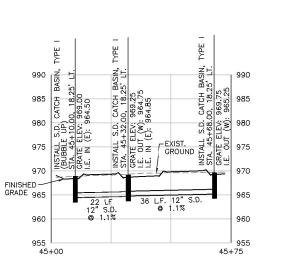




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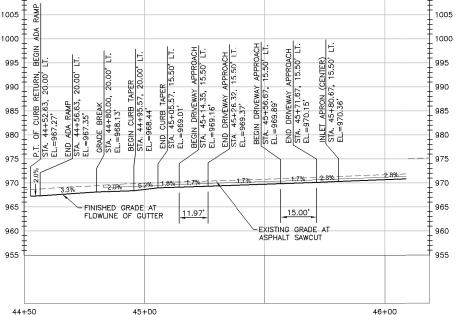
R-6





STORM DRAIN PROFILE

SCALE



PROFILE

FINAL DESIGN

(Table 19)

TD&H Engineering сск

DRAWN BY: DESIGNED BY QUALITY CHECK: DATE: JOB NO. **FIELDBOO**

PROJECT

HRC DLW 6/6/14 L14-006

42+00 TO STA. 46+00

PLAN AND PROFILE

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS LEWISTON, IDAHO STA.

L14-006 R-7.DW0

SHEET R-7





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HRC DLW 6/6/14 L14-006

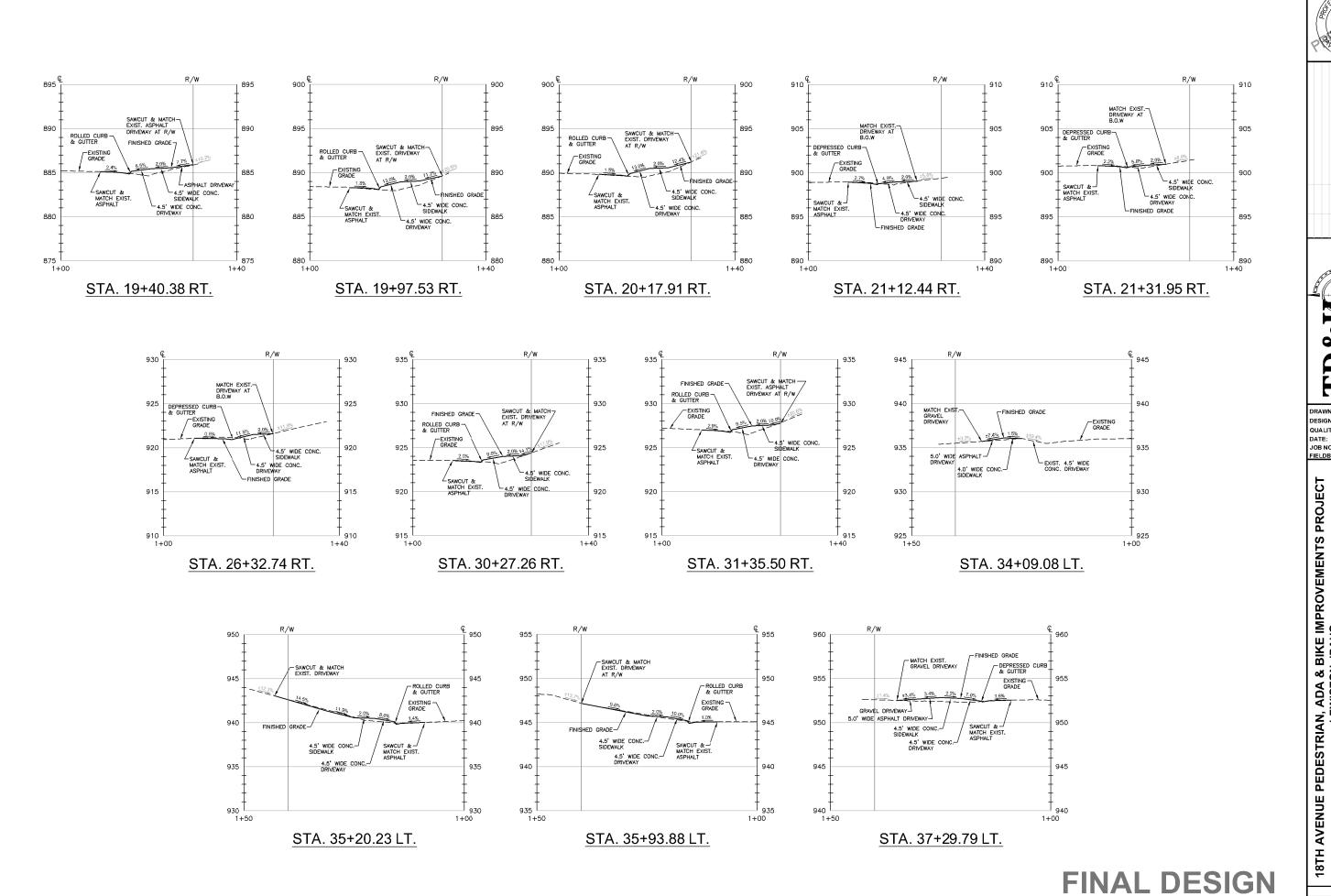
18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT LEWISTON, IDAHO

PLAN & PROFILE

STA. 46+00 TO STA. 48+00

L14-006 R-8.DWG

R-8 SHEET

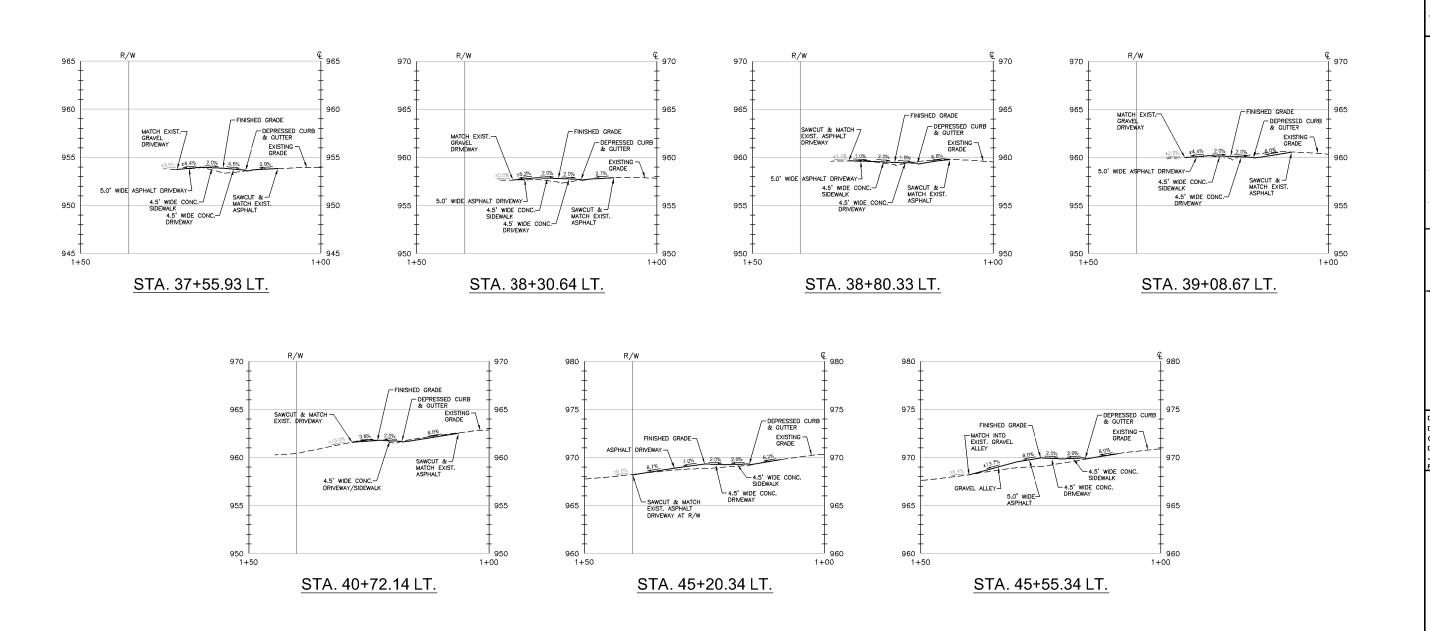


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L14-006 R-9.DWG

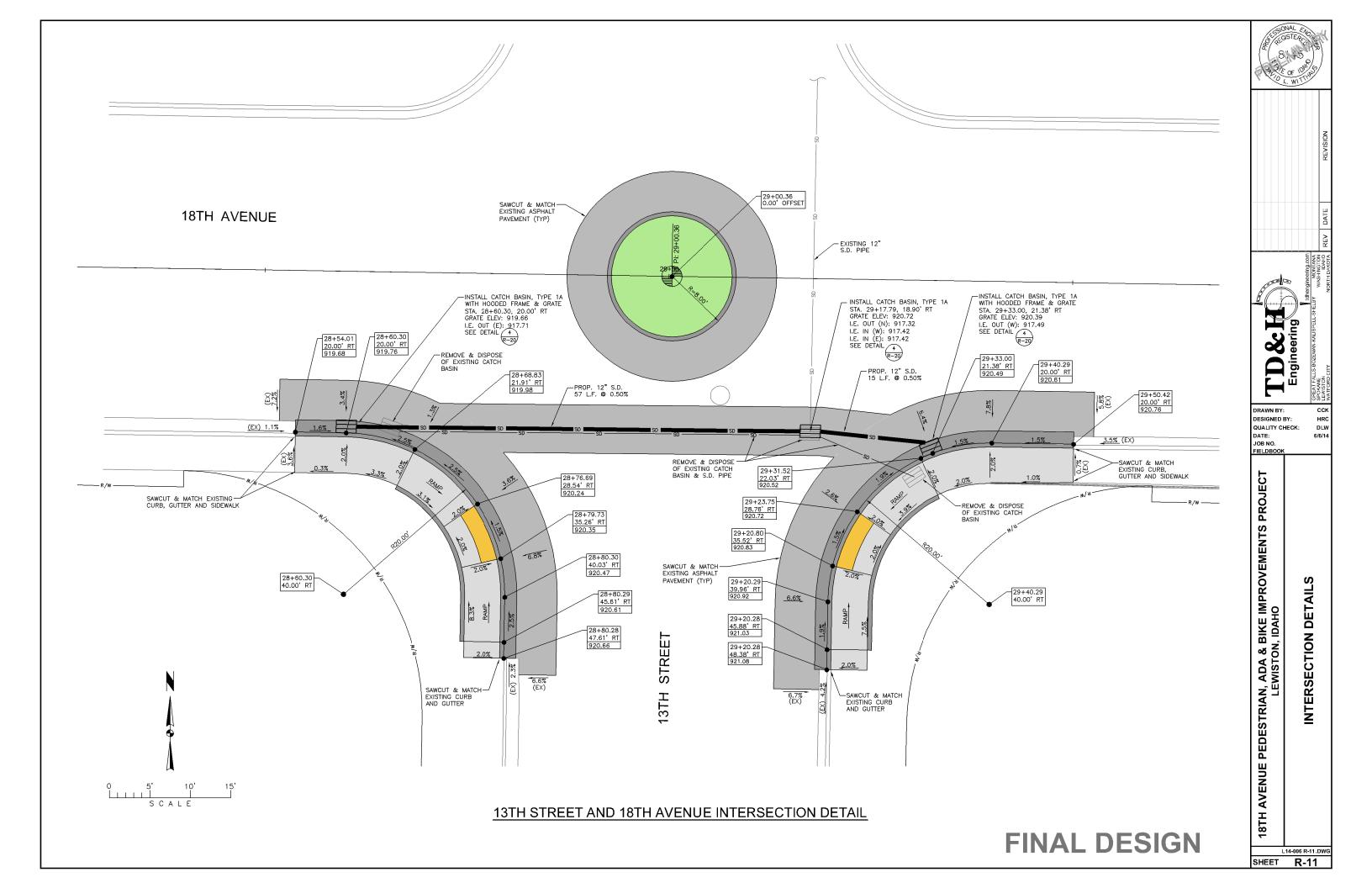
R-9

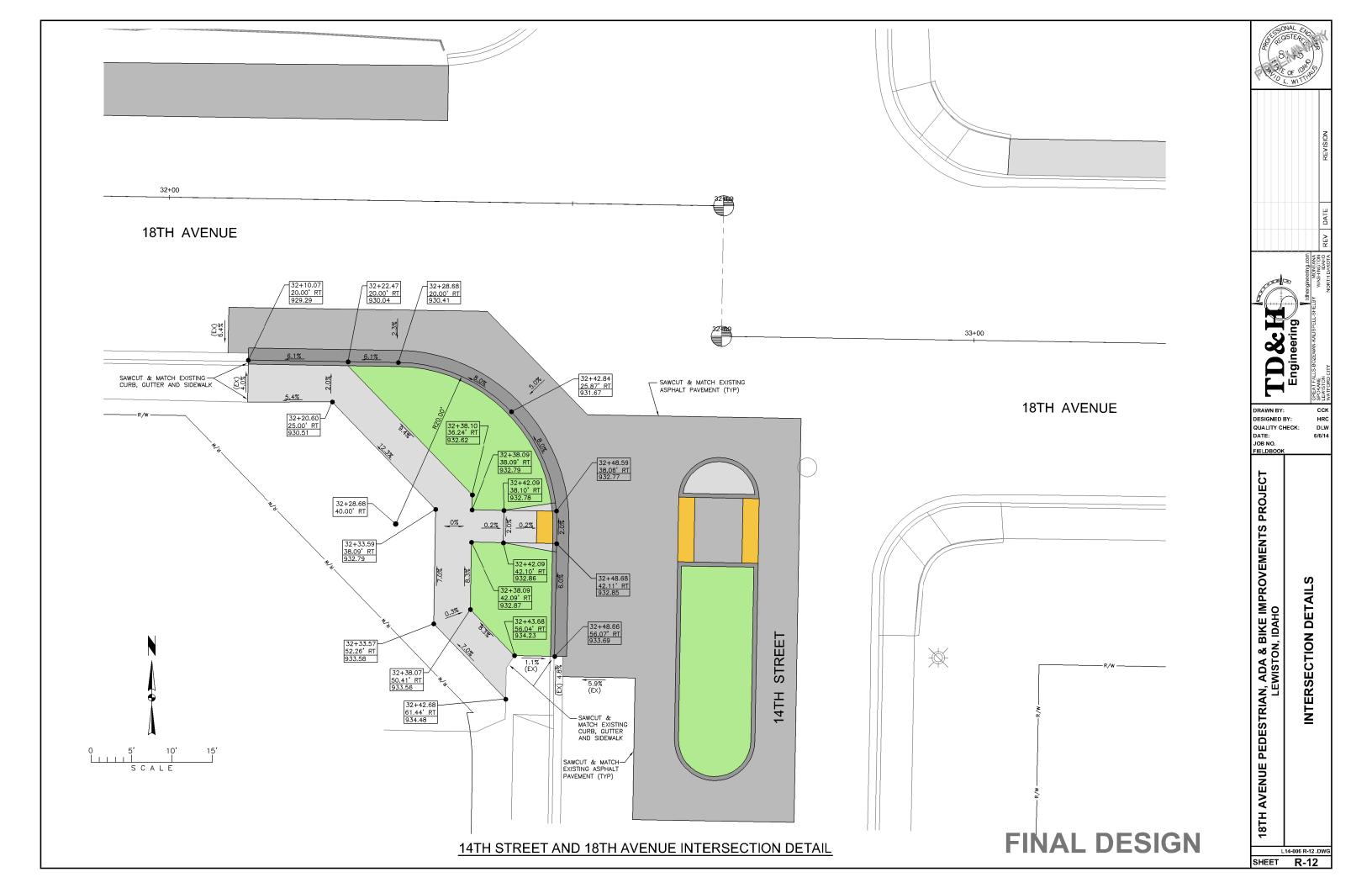
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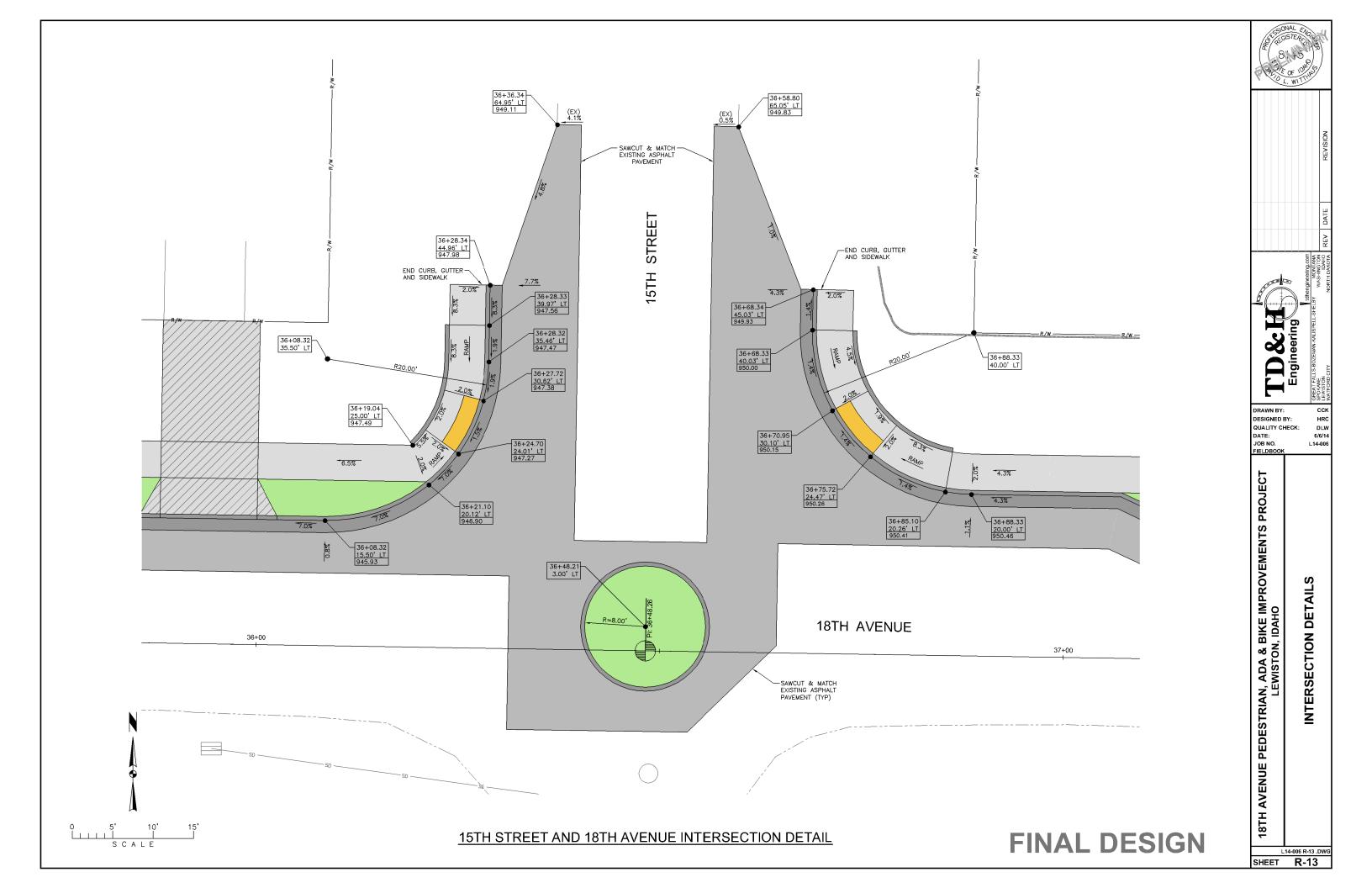


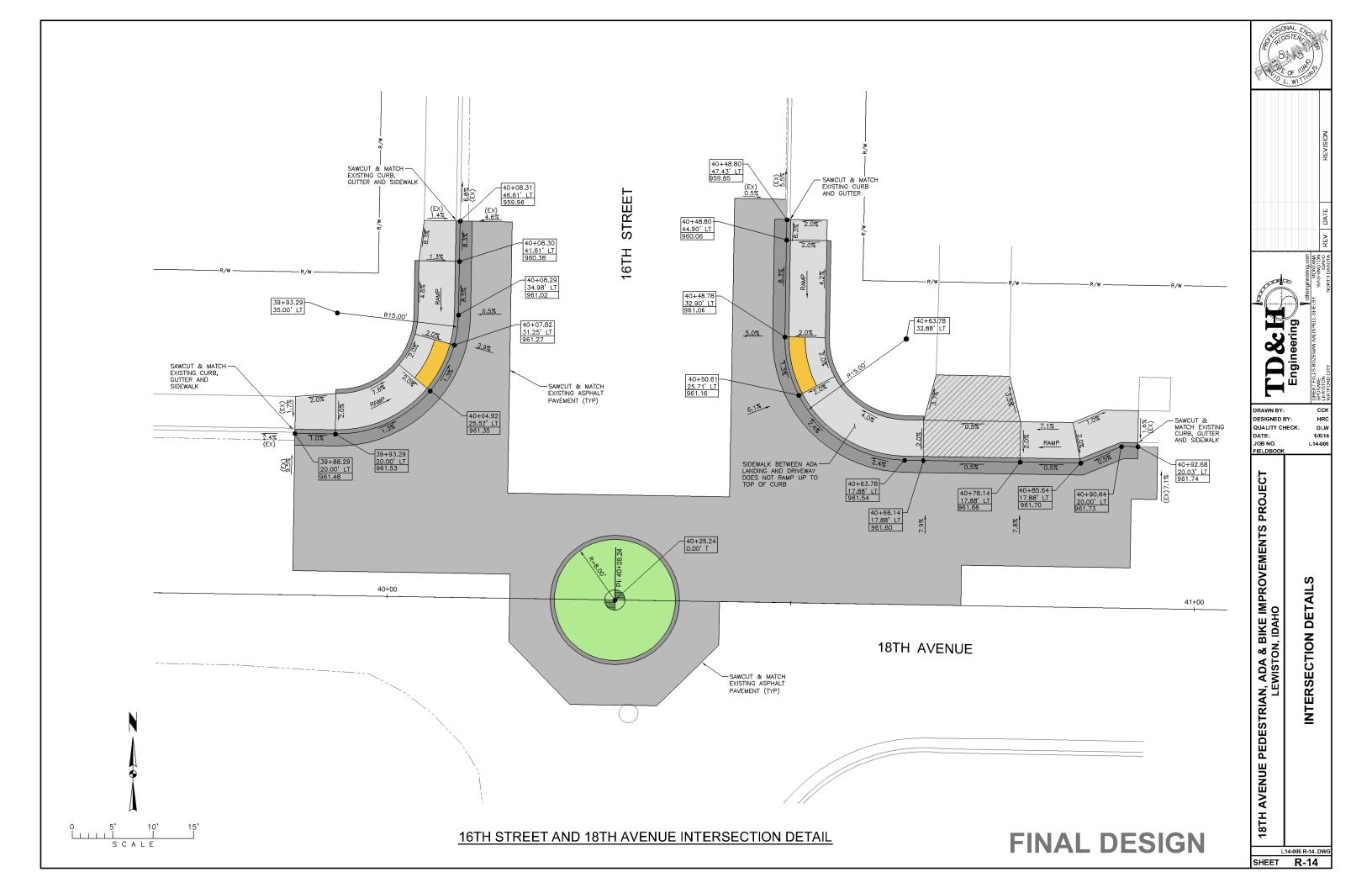


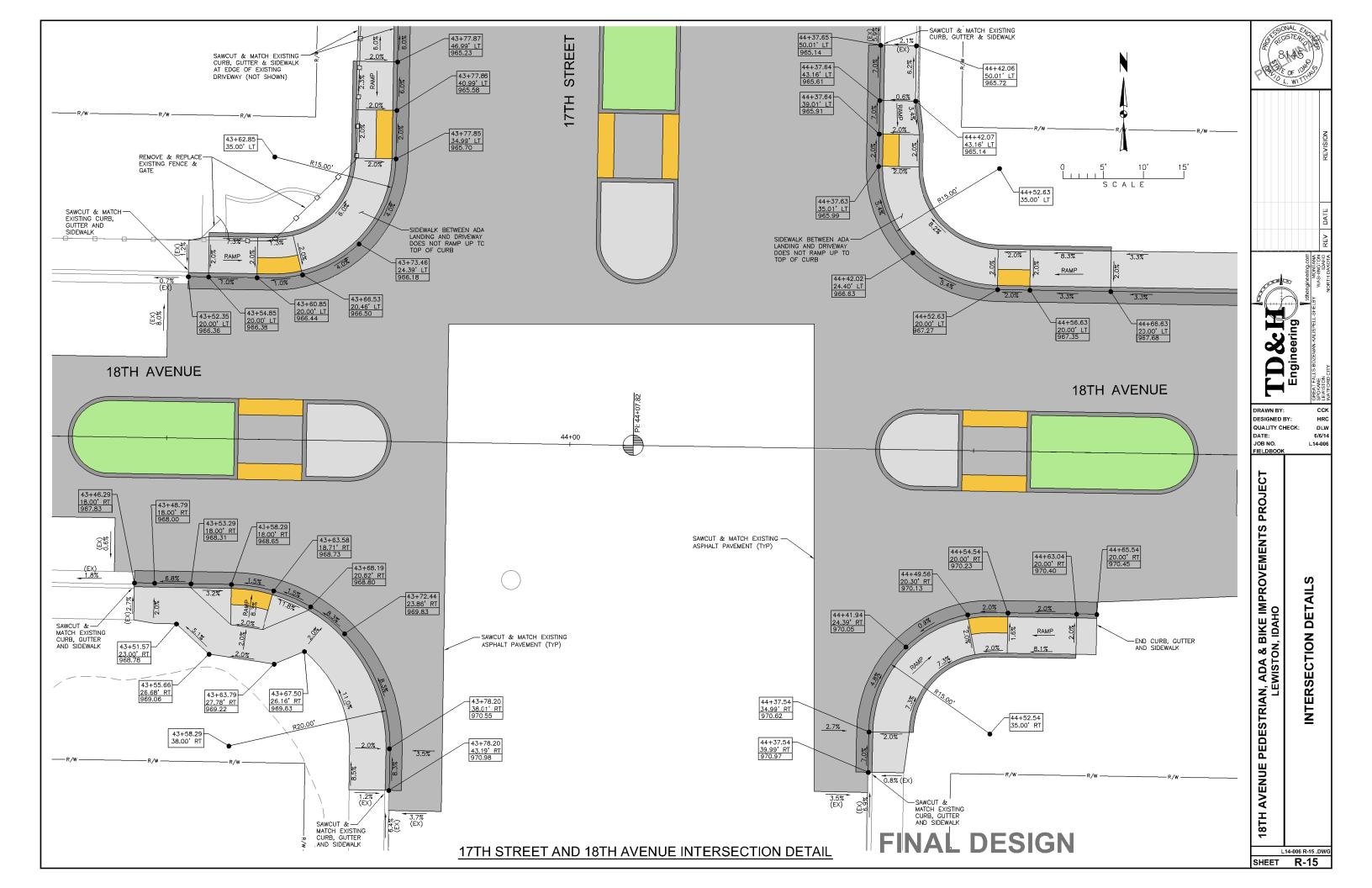
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SHEET R-10

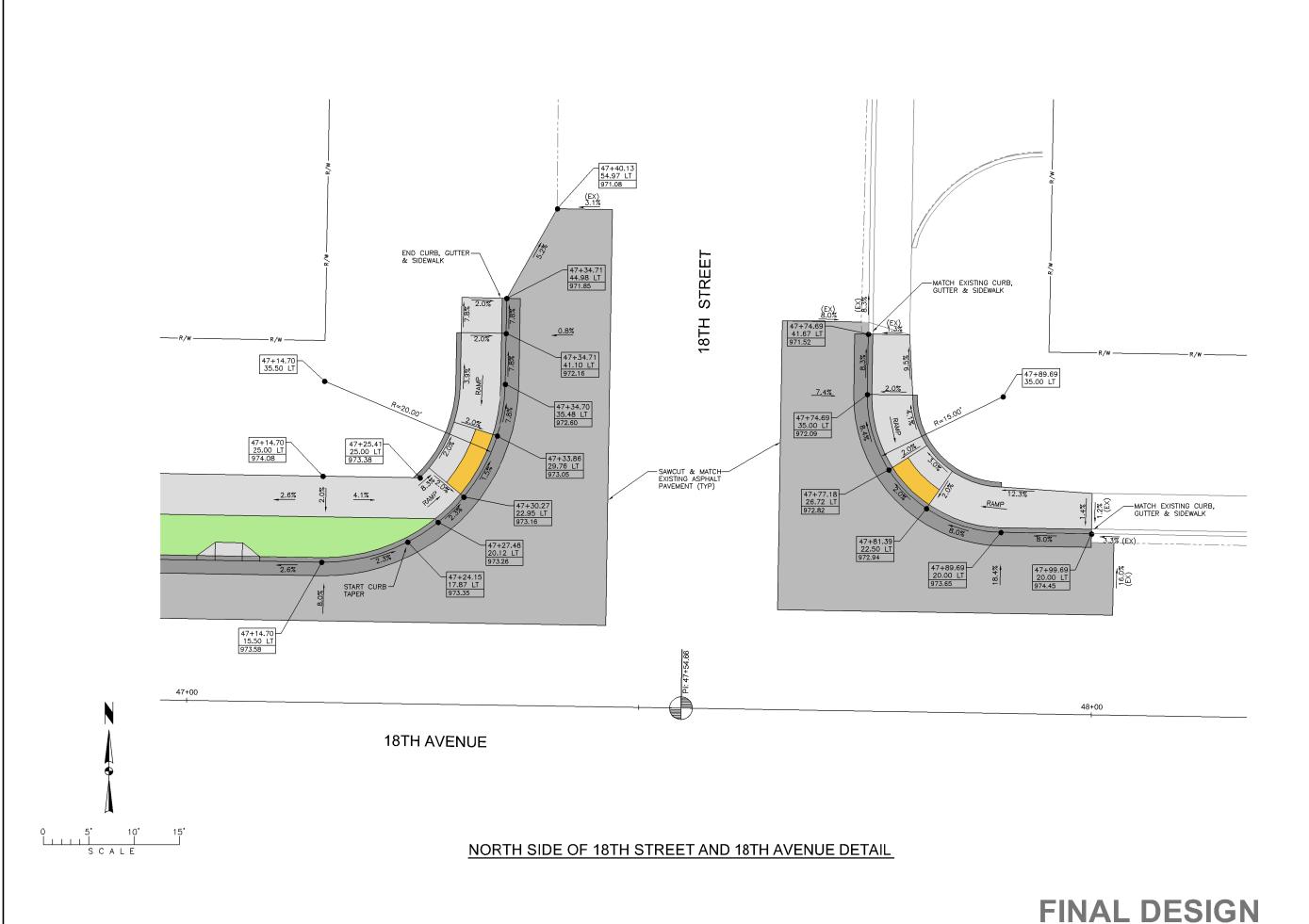


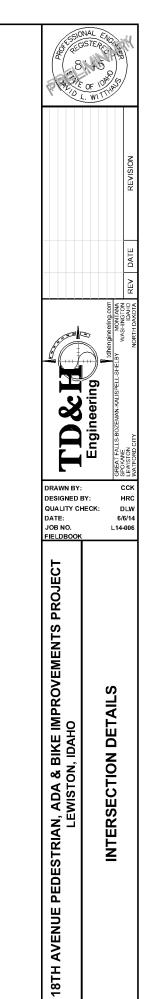




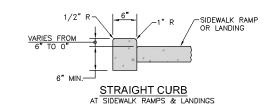


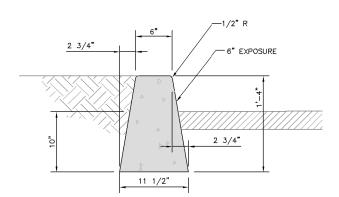


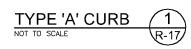


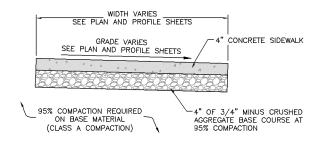


L14-006 R-16 .DWG SHEET **R-16**

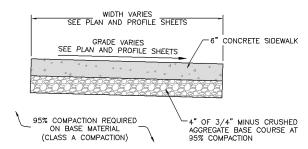




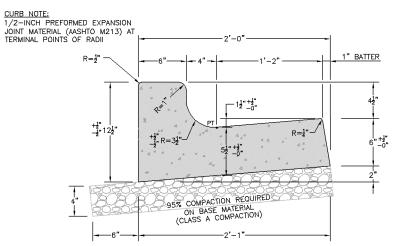




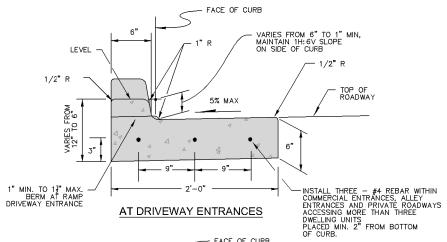


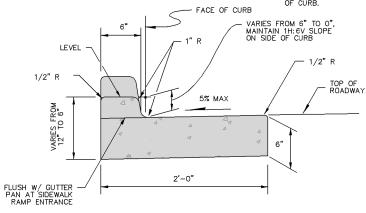






TYPE 1 HIGH BACK CURB & GUTTER
NOT TO SCALE

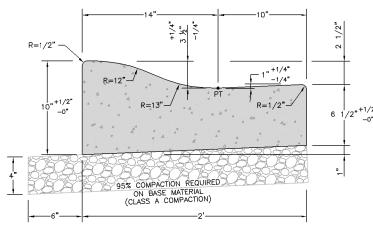




AT SIDEWALK RAMPS

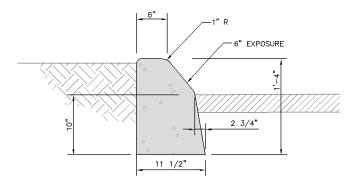
DEPRESSED CURB SECTION

FINAL DESIGN

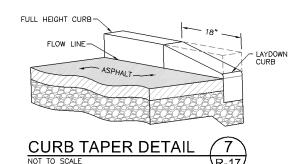


ALL TOLERANCES ARE \pm 1/4" UNLESS OTHERWISE NOTED

ROLLED CURB & GUTTER







GENERAL NOTES FOR ALL CURB & GUTTER

- 1. SECURE A PERMIT FOR CONSTRUCTION, BEFORE BEGINNING CONSTRUCTION IN PUBLIC RIGHT-OF-WAY.
 2. GRADE, ALIGNMENT AND CURB TYPE SHALL BE AS APPROVED BY THE CITY ENGINEER.
 3. ALIGNMENT AND GRADE STAKED TO LIP OF GUTTER (LIP) SHALL BE ESTABLISHED OR APPROVED BY THE CITY ENGINEER.
 4. THE TOLERANCE FOR FINISHED CURB AND GUTTER MAX. VARIATION OF SURFACE FLATNESS: 1/4 INCH IN 10 FEET MAX.
- VARIATION FROM TRUE POSITION (DESIGN GRADE): 1/2 INCH
 5. BASE MATERIAL SHALL BE 4" OF 3/4 INCH MINUS [CURRENT ITD SPC 703.04] OR 5/8 INCH MINUS [CURRENT WDOT/M41-10
- BASE MAIERIAL STALL BE 4 OF 3/4 INCH MINUS [CURRENT TID 5F0 93% MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR AS PER AASHTO T180. ALL FILL OR BACKFILL AREAS SHALL BE PLACED IN 6" TO 8" MAXIMUM LIFTS. IN ARES OF SMALL PROJECTS, LIMITED HEAVY TRUCK TRAFFIC ORE WHERE COMPACTION EQUIPMENT HAS LIMITED ACCESS A REDUCED % COMPACTION MAY BE ALLOWED WITH WRITTEN APPROVAL FROM PUBLIC WORKS DIRECTOR.
- 6. CONCRETE SHALL BE 3,000 PSI MINIMUM AT 28 DAYS, MAXIMUM WATER/CEMENT RATIO SHALL BE 0.5 (LB/LB), 5" MAX. SLUMP, AIR CONTENT (%) 6.5 ±1.5.
- 7. DUMMY JOINTS AT 10 FOOT INTERVALS AND AT CURB RADII, 3/4" TO 1" DEEP. CONSTRUCTION JOINTS LOCATIONS AS DIRECTED BY CITY ENGINEER. DIFFERENTIAL ELEVATION BETWEEN ADJACENT SECTIONS SHALL NOT EXCEED 1/4".
- 8. THE CONTRACTOR IS REQUIRED BY THE PUBLIC WORKS DEPARTMENT TO MARK STUB-OUTS AND VALVES IN THE UNCURED
- 8. THE CONTRACTOR IS REQUIRED BY THE PUBLIC WORKS DEPARTMENT TO WARK STOP-OUTS AND VALVES IN THE GROCKED CONCRETE.

 9. THE CONTRACTOR OR OWNER SHALL NOTIFY THE PUBLIC WORKS DEPARTMENT FOR INSPECTION AFTER THE FORMS ARE SET AND THE PUBLIC WORKS DEPARTMENT SHALL BE NOTIFIED NO LESS THAN 2 WORKING DAYS BEFORE PLACEMENT OF CONCRETE FOR A FINAL INSPECTION. FAILURE TO NOTIFY THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF CURB AND CONTRACTOR OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF CURB AND CONTRACTOR OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF CURB AND CONTRACTOR OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF CURB AND CONTRACTOR OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF CURB AND CONTRACTOR OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF CURB AND CONTRACTOR OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR REJECTION OF THE PUBLIC WORKS DEPARTMENT IS GROUNDS FOR THE PUBLIC WORKS DEP
- GUTTER.

 10. CONCRETE SURFACE TO HAVE A LIGHT BROOM FINISH PARALLEL WITH THE LENGTH OF THE CURB.

 11. APPLY UNIFORM COAT OF REZ-SEAL OR APPROVED EQUIVALENT CURING COMPOUND TO EXPOSED CONCRETE IMMEDIATELY AFTER FINISHING.





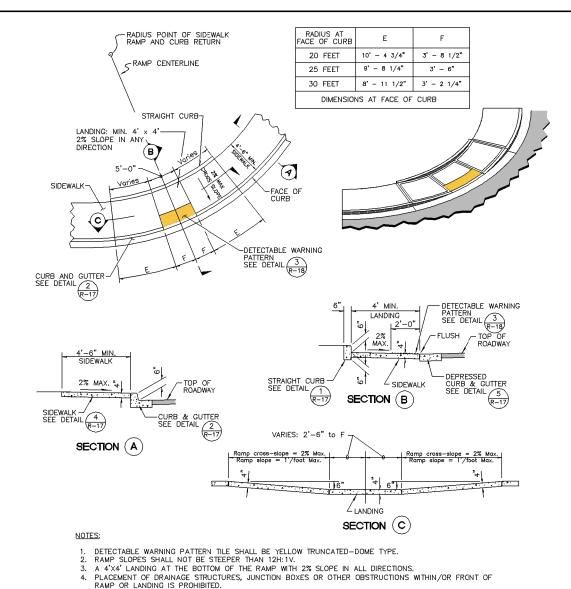
CCH DRAWN BY: DESIGNED BY DLW QUALITY CHECK: DATE: 6/6/14 JOB NO. L14-00

FIELDBOO PROJECT PEDESTRIAN, ADA & BIKE IMPROVEMENTS LEWISTON, IDAHO

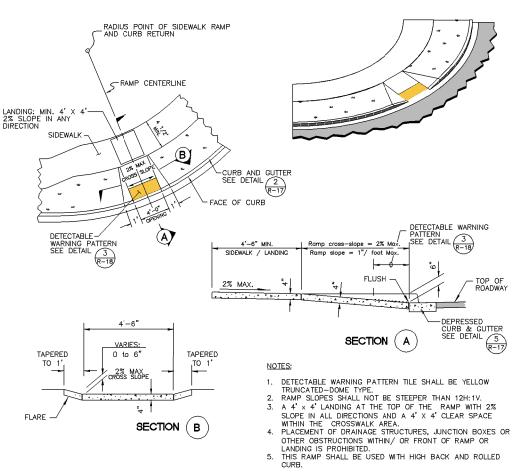
AVENUE 8TH

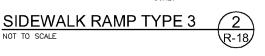
> L14-006 R-17 .DW SHEET R-17

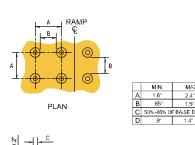
SIDEWALK NOTES: LINE AND GRADE STAKED T.S., TOP OF SIDEWALK, B.S., BACK OF SIDEWALK GRADE AND ALIGNMENT TO BE APPROVED BY THE CITY CRADE AND ALIGNMENT TO BE APPROVED BY THE **ENGINEER** 3. TOLERANCE FOR FINISHED SIDEWALK – MAX. VARIATION OF SURFACE FLATNESS: 1/4 INCH IN 10 FEET MAX. VARIATION FROM TRUE POSITION (DESIGN GRADE): 1/2 INCH 4. NO PONDING IS ALLOWED ON SIDEWALKS, STEPS OR PEDESTRIAN RAMPS. 5. BASE MATERIAL SHALL BE 4" OF 3/4" MINUS [CURRENT ITD SPEC 703.04] OR 5/8" INCH MINUS [CURRENT WDOT/M41-10 SPEC 9-03.9] CRUSHED AGGREGATE BASE MATERIAL COMPACTED TO 95% MAXIMUM DENSITY AS DETERMINED BY MODIFIED PROCTOR AS PER AASHTO T180. ALL FILLS OR BACKFILL AREAS SHALL BE PLACED IN 6° MAX. LIFTS. DUMMY JOINTS SHALL BE PLACED AT 5' INTERVALS, 3/4" TO 1" DEEP. 7. CONCRETE SHALL BE 3,000 PSI MIN. AT 28 DAYS, MAX. WATER/CEMENT RATIO SHALL BE 0.5 (LB/LB), 5" MAX. SLUMP, AIR CONTENT (%) 6.5±1.5. THE CONTRACTOR OR OWNER SHALL NOTIFY PUBLIC WORKS DEPT. FOR INSPECTION OF BASE MATERIAL AFTER THE FORMS ARE SET AND THE PUBLIC WORKS DEPT. WILL BE NOTIFIED NO LESS THAN 2 WORKING DAYS BEFORE PLACEMENT OF CONCRETE, FOR FINAL INSPECTION. CONCRETE SURFACE TO HAVE A LIGHT BROOM FINISH PERPENDICULAR TO THE LENGTH OF SIDEWALK. PERPENDICULAR TO THE LENGTH OF SIDEWALK. 10. APPLY UNIFORM COAT OF REZ-SEAL OR APPROVED EQUIVALENT CURING COMPOUND TO EXPOSED CONCRETE IMMEDIATELY AFTER FINISHING. 11. NAME OF CONTRACTOR AND YEAR TO BE STAMPED AT EACH END OF WORK AND AT INTERVALS OF 300 FT. 12. CONCRETE SURFACE SHALL BE FREE OF SURFACE BLEMISHES OR VOIDS GREATER THAN 1/4". JOINTS AND EDGES SHALL BE CLEAN AND FREE OF EXCESS SPALLING OR VOIDS.



SIDEWALK RAMP TYPE 2





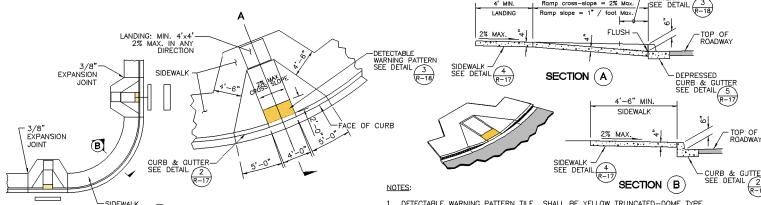


SECTION VIEW

NOTES:

DETECTABLE
TRUNCATED—DOME WARNING,
2 FT WIDE, MUST BE
PROVIDED FOR THE FULL
WIDTH OF RAMPS AND
BLENDED CONNECTIONS TO
MARK THE STREET EDGE AND
FULLY APPROVED BY
CURRENT ADA REQUIREMENTS.

2. AT LEAST ONE CORNER OF THE DETECTABLE WARNING PANEL SHALL BE COINCIDENT TO THE BACK OF CURB.



DETECTABLE WARNING PATTERN TILE SHALL BE YELLOW TRUNCATED-DOME TYPE.
 RAMP SLOPES SHALL NOT BE STEEPER THAN 12H:1V.
 A 4' x 4' MIN. CLEAR SPACE WITHIN THE CROSSWALK AREA AND 4' x 4' LANDING AREA AT TOP

OF RAMP W/ 2% SLOPE IN ALL DIRECTIONS.

4. PLACEMENT OF DRANAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS WITHIN/ OR FRONT OF RAMP OR LANDING IS PROHIBITED

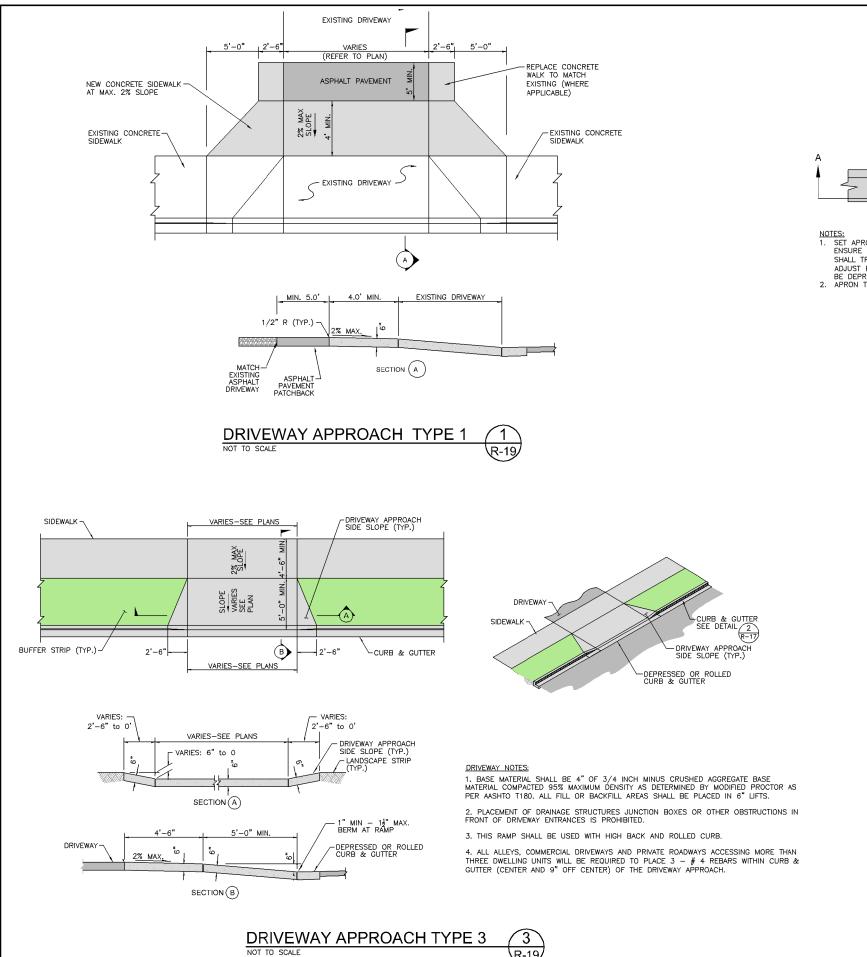
DETECTABLE TRUNCATED-DOME WARNING

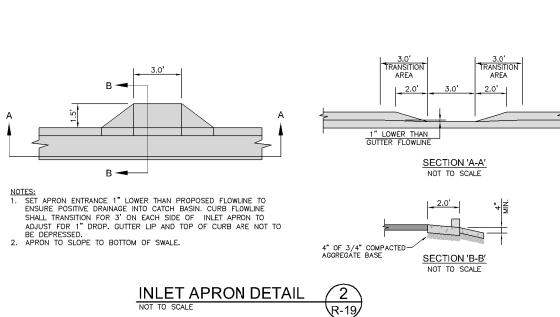


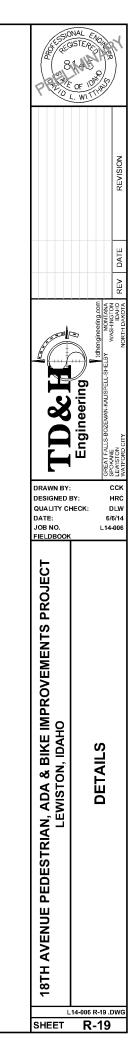
FINAL DESIGN

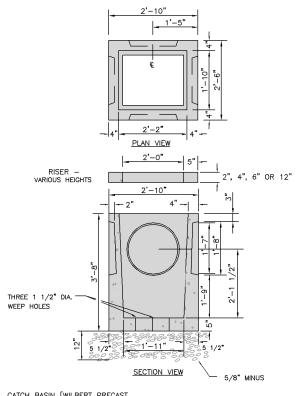
CCH DRAWN BY: DESIGNED BY DLV QUALITY CHECK DATE: 6/6/14 JOB NO. L14-00 **FIELDBOO** PROJECT PEDESTRIAN, ADA & BIKE IMPROVEMENTS LEWISTON, IDAHO AVENUE 8TH L14-006 R-18 .DW SHEET R-18

Engineering









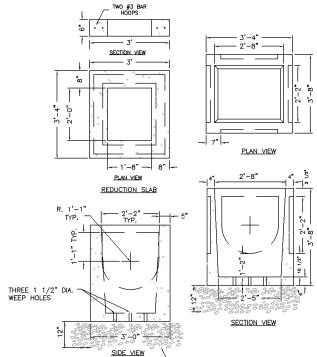
1. TYPICAL CATCH BASIN [WILBERT PRECAST PRODUCT #1827] AND RISERS [WILBERT PRECAST #1830 (FOR 12") OR #1831-2,4,6 (FOR 2", 4" OR 6")] OR BY OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM PUBLIC WORKS DEPT.

NOTES:

NOT TO SCALE

2. FOR CATCH BASINS' GENERAL NOTES, SEE DETAIL (3)





18 1/16" TYPE 'A' HOOD TOP VIEW - FRAME CURB & GUTTER FRAME MATCH TOP OF HOOD TO TOP OF CURB (TYP.) HOOD ONE-WAY FLOW TWO-WAY FLOW *** ILLUSTRATED CATCH BASIN IS FOR USE AT HIGH BACK CURB & GUTTER LOCATIONS ONLY. SEE NOTES FOR CATCH BASIN PRODUCT TO BE USED AT MOUNTABLE CURB LOCATIONS. FRAME -

GENERAL NOTES FOR CATCH BASINS

- 1. ALL UNITS TO MEET OR EXCEED THE REQUIREMENTS OF ASTM C478/AASHTO M199.
- 2. ALL CURB INLET STRUCTURES SHALL HAVE A MINIMUM 12" SUMP WITH THREE 1 1/2" DIA. WEEP HOLES IN BASE AND MINIMUM OF 12" OF COMPACTED 5/8" MINUS UNDER BASE; CRUSHED AGGREGATE MATERIAL COMPACTED TO 95% MODIFIED PROCTOR AS PER AASHTO T180
- PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
- ALL PIPES SHALL BE FLUSH WITH BASIN WALL AND SHALL BE MORTARED ALL AROUND.
- 5. REDUCTION SLAB, RISERS, AND FRAME & GRATE SHALL NOT BE MORE THAN ONE INCH OUT OF VERTICAL ALIGNMENT WITH CATCH BASIN BASE.
- USE A MINIMUM OF 1/2" NON-SHRINK GROUT BETWEEN RISERS, BASE, AND FRAME.
 CURB INLET TO BE PLACED WITHIN A TOLERANCE OF 1/2" HORIZONTAL ALIGNMENT FROM CURB LINE.
- 8. SET GRATE 1" LOWER THAN PROPOSED FLOWLINE TO ENSURE POSITIVE DRAINAGE INTO CATCH BASIN. CURB FLOWLINE SHALL BE TRANSITIONED FOR 3' ON EACH SIDE OF THE CATCH BASIN TO ADJUST FOR 1" DROP. GUTTER LIP AND TOP OF CURB ARE NOT TO BE DEPRESSED.

STORMWATER GENERAL CATCH BASIN NOTES



R-20/

- CATCH BASIN FRAME, GRATE & HOOD PRODUCT NO'S:
 D&L SUPPLY PRODUCT I-4434
 COVER MATERIAL SPECIFICATION GRAY IRON (ASTM A48 CL35B)
- 3. FOR CATCH BASIN GENERAL NOTES, SEE DETAIL $3 \over R-29$



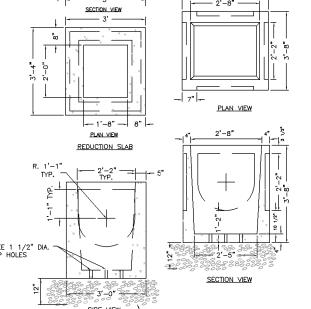
NON-CURB LOCATIONS

NOTE: FOR CATCH BASINS LOCATED AT NON-CURB LOCATIONS CATCH BASIN FRAME & GRATE TO BE D&L FOUNDRY PRODUCT I-4431 OR OTHER ENGINEER APPROVED EQUAL.

STORMWATER CATCH BASIN



FRAME AND GRATE AT CURB LOACTIONS



- 1. SHALLOW CATCH BASIN [WILBERT PRECAST PRODUCT #1845] AND REDUCTION SLAB [WILBERT PRECAST #1846] OR BY OTHER MANUFACTURER WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM PUBLIC WORKS DEPT.
- 2. SEE CITY DWG 6-6 'GENERAL NOTES FOR CATCH BASINS'.

STORMWATER TYPE 1A CATCH BASIN (SHALLOW CATCH BASIN)

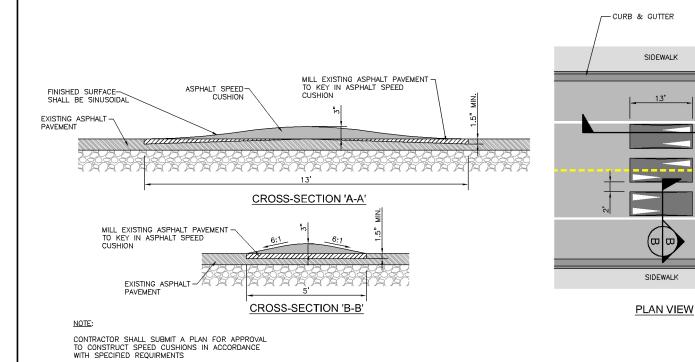
FINAL DESIGN

Engineering DRAWN BY: CCI DESIGNED BY QUALITY CHECK: DATE: 6/6/14 JOB NO. L14-006 FIELDBOOK **PROJECT** BIKE IMPROVEMENTS I, IDAHO PEDESTRIAN, ADA & E LEWISTON, **18TH AVENUE**

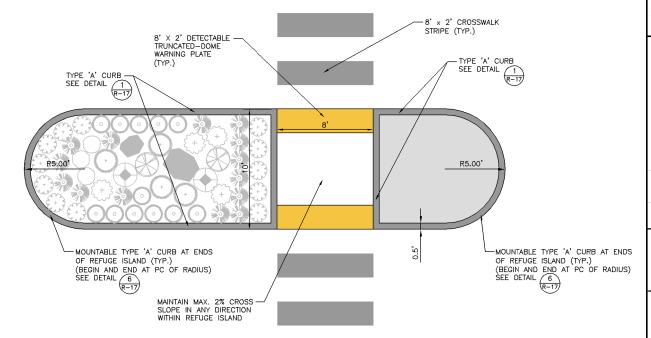
L14-006 R-20 .DW

R-20

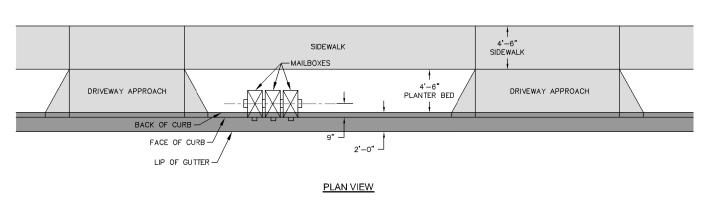
SHEET



SPEED CUSHION DETAIL

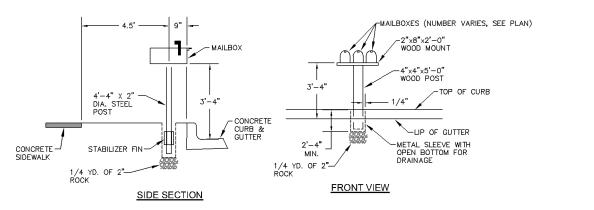


ADA REFUGE ISLAND DETAIL NOT TO SCALE

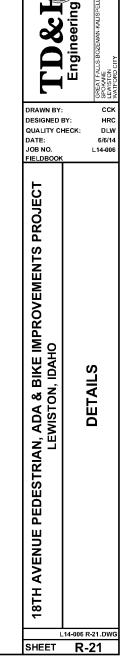


R-21

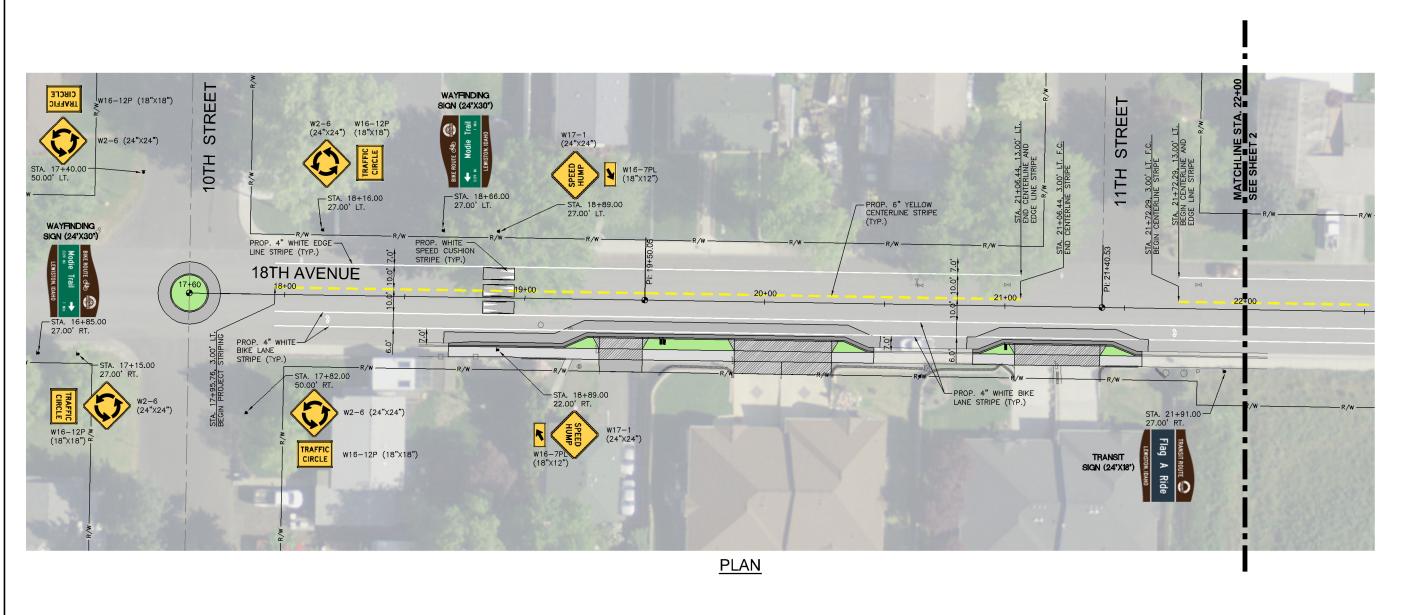
-CURB & GUTTER

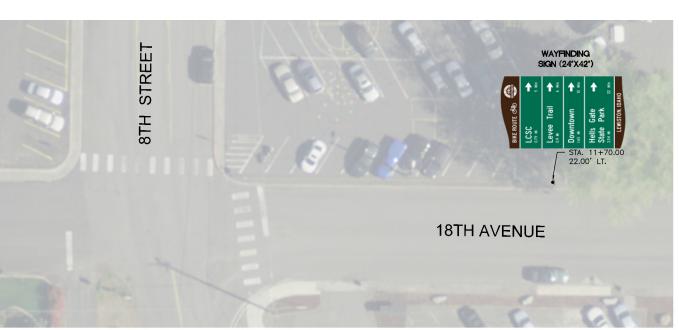






FINAL DESIGN





FINAL DESIGN

TD&H Engineering DRAWN BY: DESIGNED BY: HRC DLW 6/6/14 L14-006 QUALITY CHECK: DATE: JOB NO. 18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT LEWISTON, IDAHO SIGNING & PAVEMENT MARKINGS STA. 17+60 TO STA. 22+00

L14-006 T-1.DWG

T-1

SHEET

WAYFINDING SIGN AT 8TH STREET INTERSECTION



TD&II

DRAWN BY:
DESIGNED BY:
QUALITY CHECK:
DATE:
JOB NO.
FIELDBOOK

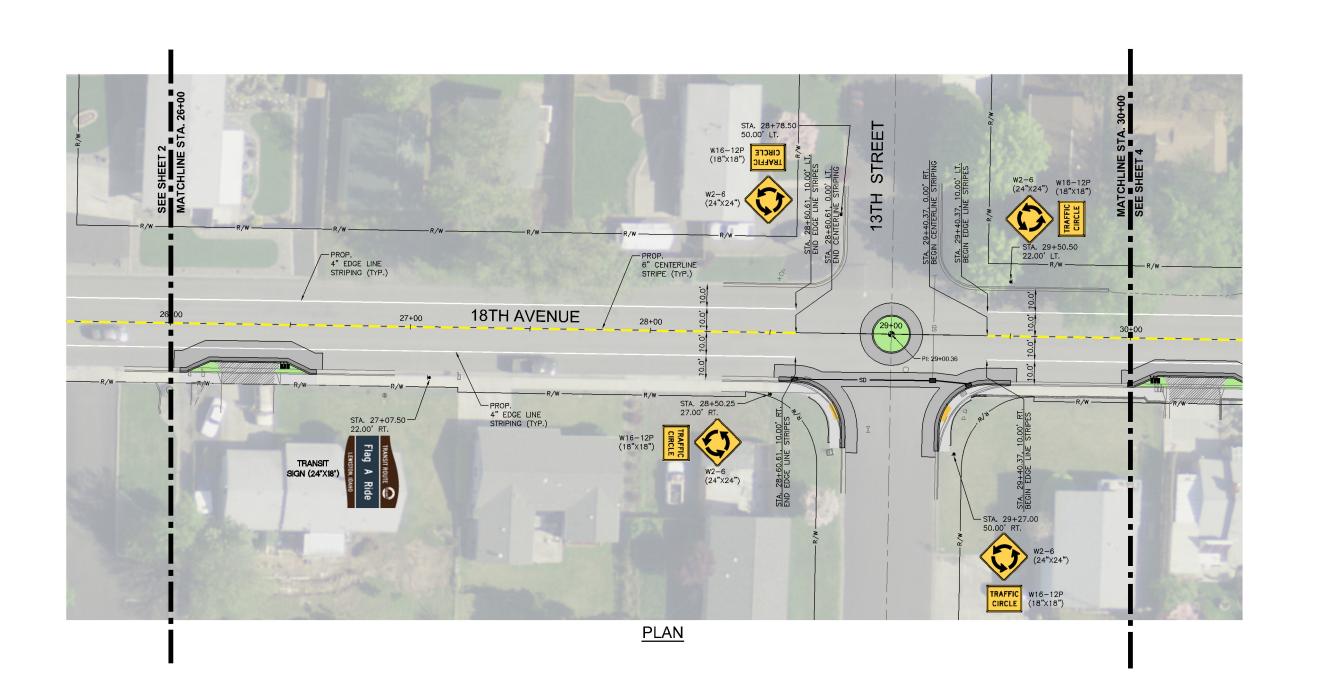
CCK HRC DLW 6/6/14 L14-006

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT LEWISTON, IDAHO

STA. 22+00 TO STA. 26+00

SIGNING & PAVEMENT MARKINGS

L14-006 T-2.DWG
SHEET **T-2**



TD&I

DRAWN BY: DESIGNED BY: DESIGNED BY: QUALITY CHECK: DATE: JOB NO. FIELDBOOK

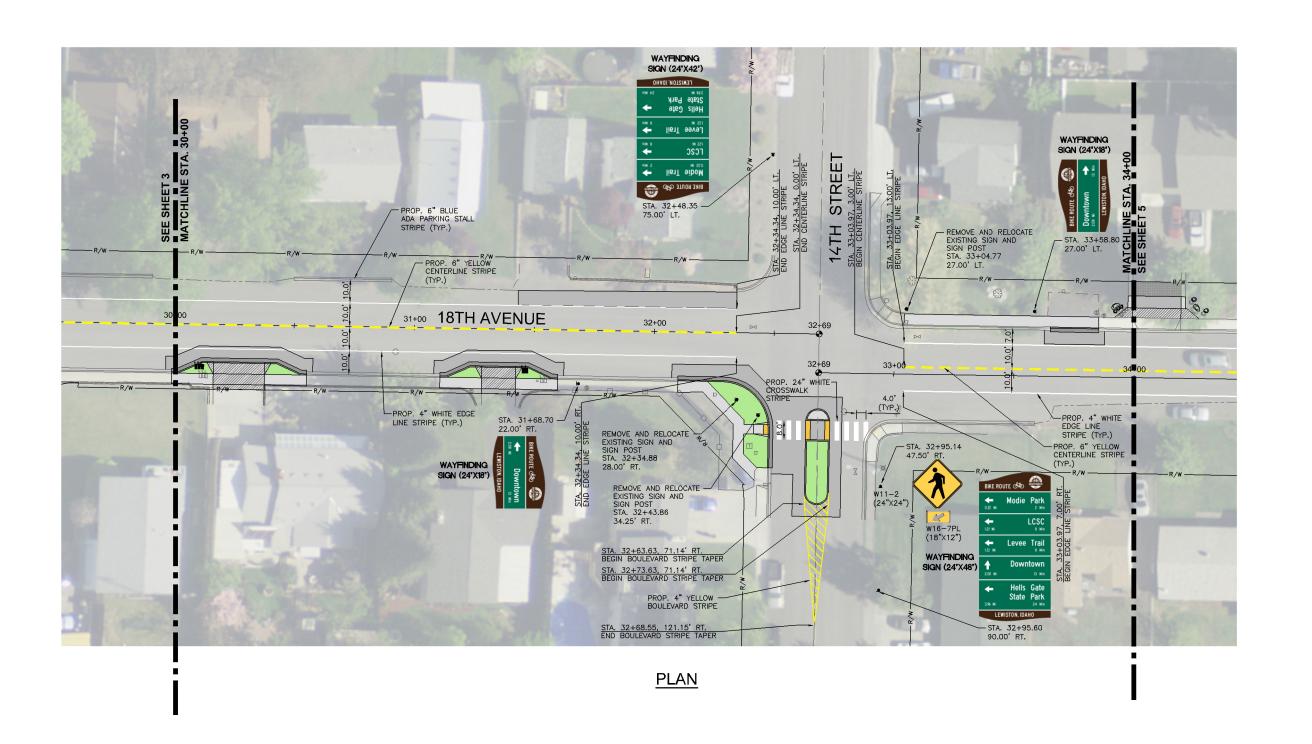
CCK HRC DLW 6/6/14 L14-006

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT LEWISTON, IDAHO

STA. 26+00 TO STA. 30+00

SIGNING & PAVEMENT MARKINGS

L14-006 T-3.DWG
SHEET **T-3**



TD&I сск

DRAWN BY: DESIGNED BY QUALITY CHECK: DATE: JOB NO. FIELDBOO

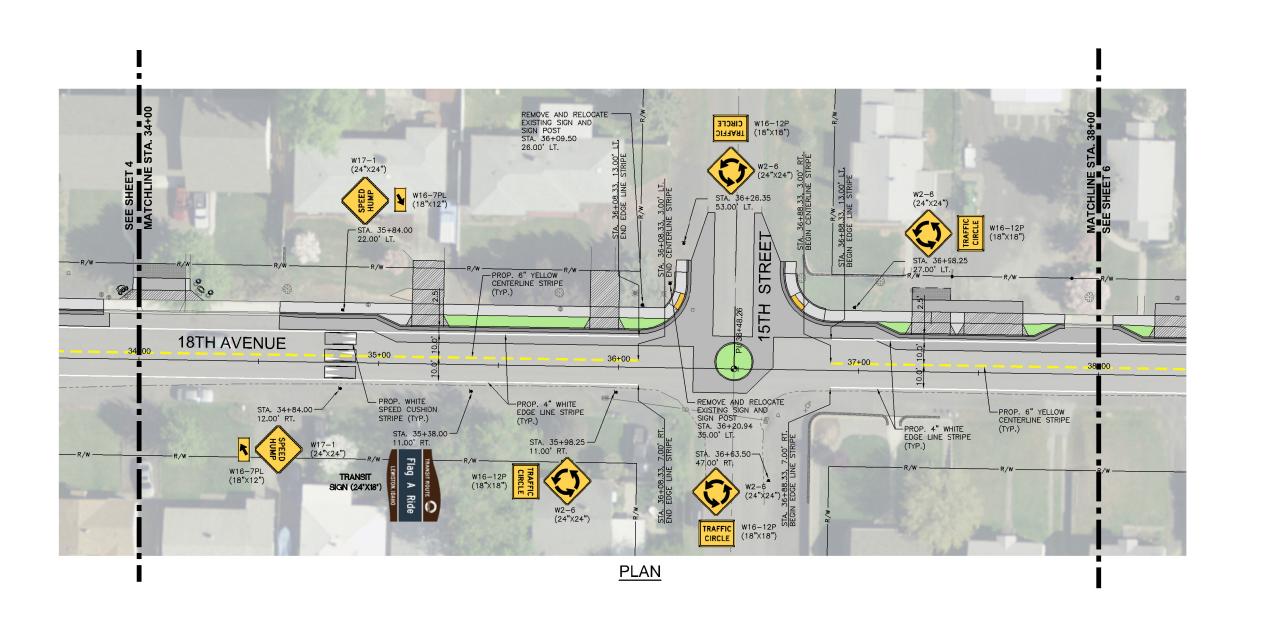
HRC DLW 6/6/14 L14-006

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT LEWISTON, IDAHO

SIGNING & PAVEMENT MARKINGS 30+00 TO STA. 34+00 STA.

L14-006 T-4.DWG SHEET T-4

FINAL DESIGN



TD&IL

DRAWN BY: DESIGNED BY: QUALITY CHECK: DATE: JOB NO.

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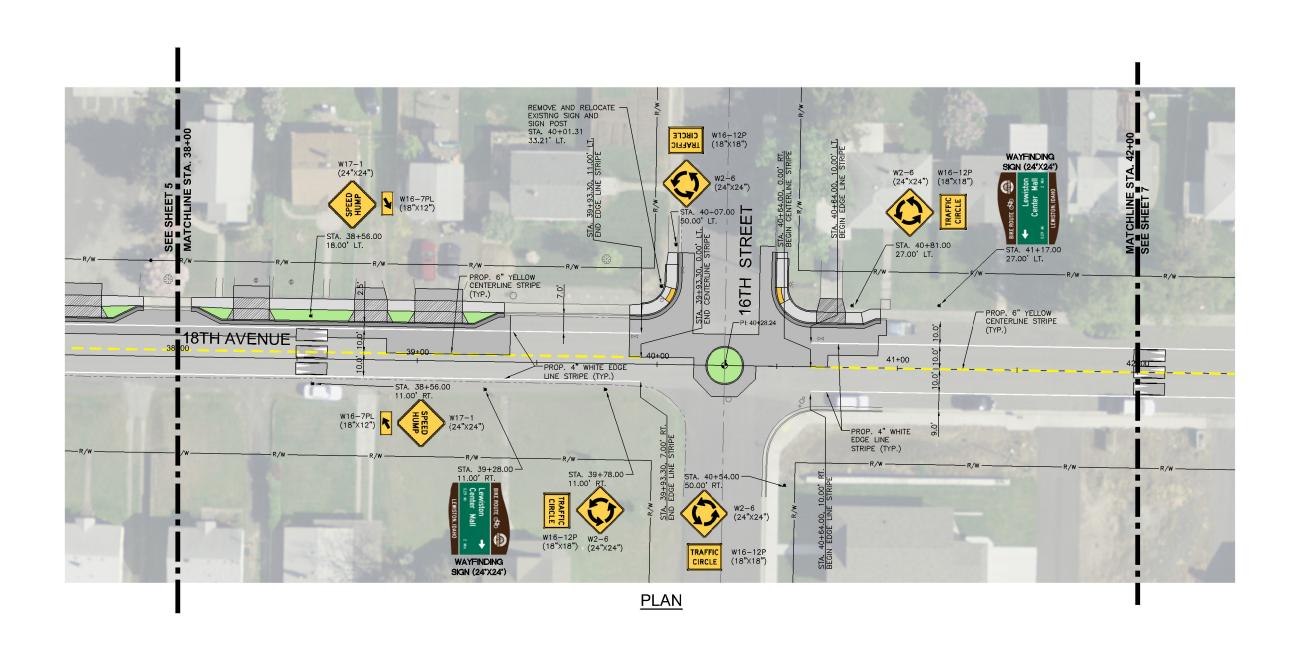
HRC DLW 6/6/14 L14-006

STA. 34+00 TO STA. 38+00

SIGNING & PAVEMENT MARKINGS

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT LEWISTON, IDAHO

L14-006 T-5.DWG SHEET



TD&I

DRAWN BY: DESIGNED BY: QUALITY CHECK: DATE: JOB NO. FIELDBOO

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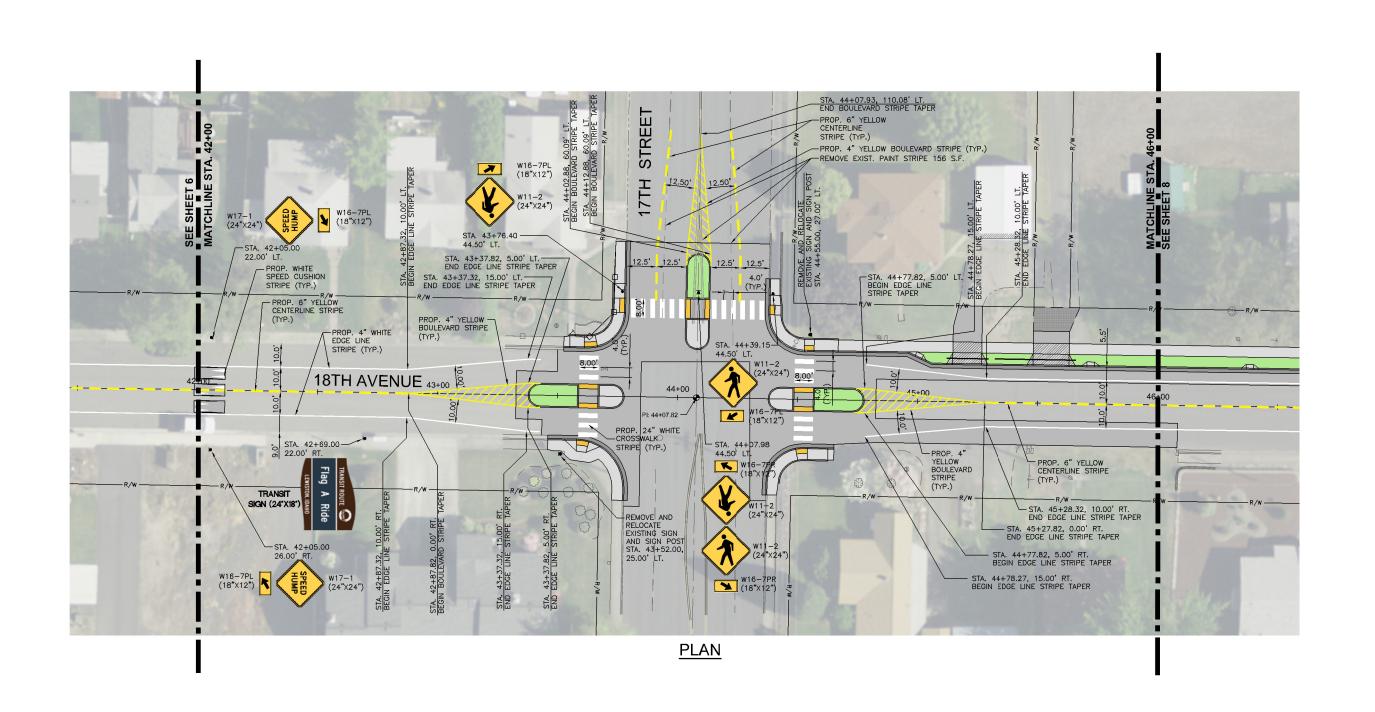
HRC DLW 6/6/14 L14-006

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT LEWISTON, IDAHO

SIGNING & PAVEMENT MARKINGS STA. 38+00 TO STA. 42+00

L14-006 T-6.DWG SHEET

FINAL DESIGN



TD&H Engineering

DRAWN BY: DESIGNED BY QUALITY CHECK: DATE: JOB NO. **FIELDBOO**

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HRC DLW 6/6/14 L14-006

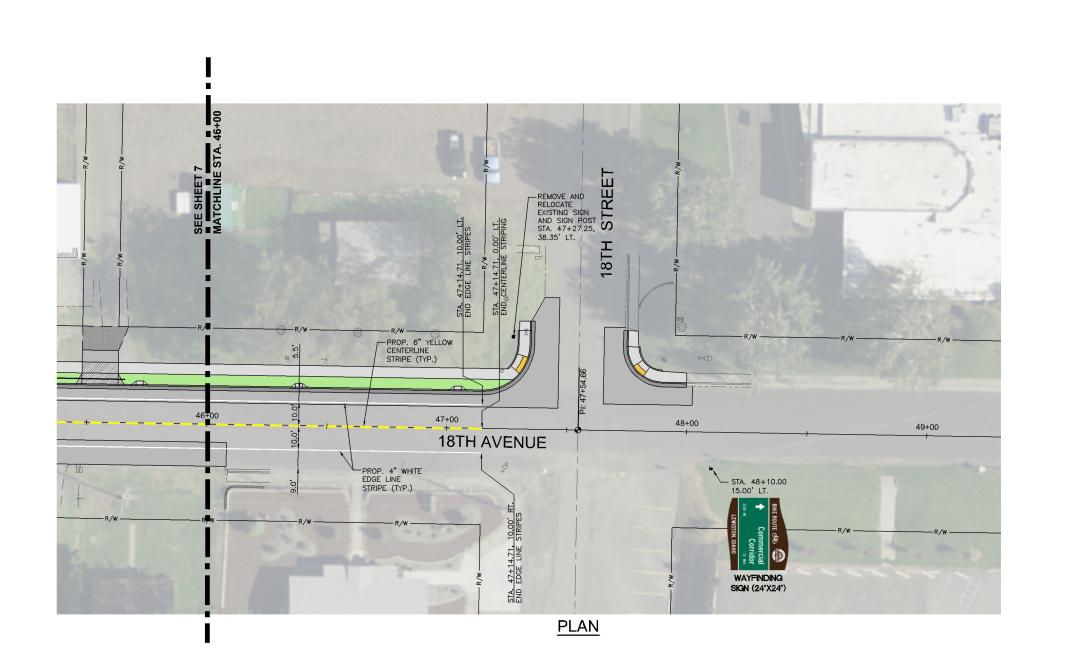
PROJECT 18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS LEWISTON, IDAHO

42+00 TO STA. 46+00

SIGNING & PAVEMENT MARKINGS STA.

L14-006 T-7.DWC T-7 SHEET

FINAL DESIGN



TD&H Engineering

DRAWN BY:
DESIGNED BY:
QUALITY CHECK:
DATE:
JOB NO.
FIELDBOOK

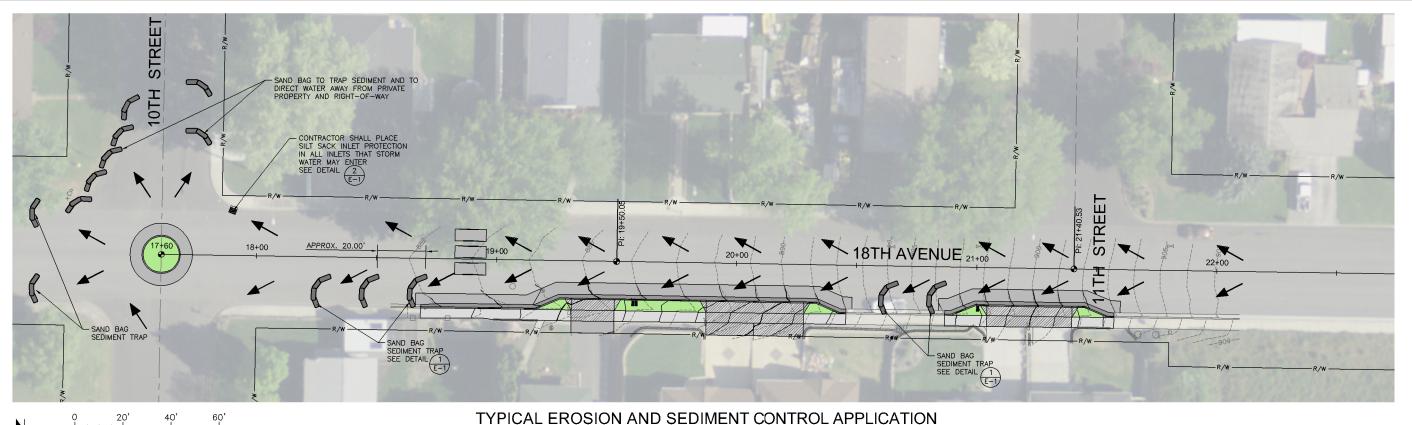
CCK HRC DLW 6/6/14 L14-006

STA. 46+00 TO STA. 48+00

SIGNING & PAVEMENT MARKINGS

18TH AVENUE PEDESTRIAN, ADA & BIKE IMPROVEMENTS PROJECT LEWISTON, IDAHO

L14-006 T-8.DWG
SHEET **T-8**



WIDTH VARIES SEE ROADWAY PLAN SAND BAG SEDIMENT TRAP SAND BAG OVER FLOW STORMWATER SEDIMENT EXISTING ASPHALT -SAWCUT OF EXISTING ASPHALT CONSTRUCTION AREA REMOVED ASPHALT, CURB GUTTER, SIDEWALK & BASE COURSE - NATIVE SOIL FLOW SEDIMENT LINE

SAND BAG SEDIMENT TRAP DETAIL

SEDIMENT LINE -

AREA AT STORM

EVENT

INSERT 1" REBAR FOR BAG REMOVAL FROM INLET. OPTIONAL OVERFLOW SILT SACK-SILT SACK DUMP LOOPS **EXPANSION** RESTRAINT INSTALLATION DETAIL

SILT SACK INLET PROTECTION DETAIL

GENERAL MAINTENANCE & GUIDELINES

- EROSION AND DUST CONTROL MEASURES MUST BE USED DURING CONSTRUCTION TO REDUCE OR ELIMINATE BLOWING DUST, EXCESSIVE RUNOFF, AND SOIL EROSION ACROSS PROPERTY LINES AND INTO STREETS AND RIGHT—OF—WAY, AND TO ELIMINATE TRACKING SOIL AND MUD ONTO STREETS FROM CONSTRUCTION EQUIPMENT AND VEHICLES. THE CONTRACTOR IS RESPONSIBLE FOR STREET CLEANUP AT THE END OF EACH SHIFT
- 2. IT IS IMPORTANT TO IMPLEMENT A THOROUGH MAINTENANCE PROGRAM BEFORE, DURING, AND AFTER DEVELOPMENT IS COMPLETED. INSPECT ALL BMPs AND ADDITIONAL SAFEGUARDS TO DETERMINE THAT THEY ARE WORKING PROPERLY AND TO ENSURE THAT PROBLEMS ARE CORRECTED AS SOON AS THEY DEVELOP. THE MAINTENANCE SCHEDULE SHOULD BE BASED ON SITE CONDITIONS, DESIGN SAFEGUARDS, CONSTRUCTION SEQUENCE, AND ANTICIPATED WEATHER CONDITIONS.
- INSPECTIONS SHOULD INCLUDE MATERIALS STORAGE AREAS, LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE, THE OPERATIONAL FUNCTIONALITY OF BMPs, AND EVIDENCE OF POLLUTANTS ENTERING THE DRAINAGE SYSTEM IN DISTURBED AREAS, AN INDIVIDUAL SHOULD BE ASSIGNED THE RESPONSIBILITY FOR ROUTINE CHECKS OF OPERATING PRACTICES, ALL TEMPORARY AND PERMANENT EROSION CONTROL BMPS SHOULD BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. SPECIAL ATTENTION
- AREAS TO HAVE PERMANENT SEEDING SHALL BE GRADED WITHIN A MINIMUM OF SIX INCHES OF TOPSOIL.

- SHOULD BE PAID TO CONTROLS AFTER STORM EVENTS TO ENSURE THEY ARE FUNCTIONING PROPERLY.



SAND BAG STORMWATER FLOW DIRECTION FINISHED GRADE CONTOUR - EXISTING GRADE CONTOUR SILT SACK INLET PROTECTION

> NOTES:
>
> 1. SEDIMENTATION AND EROSION CONTROL
> MEASURES MUST BE INSPECTED BY QUALIFIED PERSONNEL. INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY
> 7—CALENDAR DAYS AND WITHIN 24 HOURS
> AFTER A STORM EVENT OF 0.5 INCHES OR GREATER. AN INSPECTION REPORT SHALL BE COMPLETED FOR EACH INSPECTION. ALL INSPECTIONS AND THE INSPECTION REPORT SHALL BE IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN.

2. SILT SACK INLET PROTECTION SHALL OCCUR AT ALL INLETS ALONG PROJECT CORRIDOR.
SILT SACK INLET PROTECTION SHALL ALSO
OCCUR ON ALL OF THE NORTH AND SOUTH BLOCKS ON THE DOWNHILL SIDE (10TH STREET TO 18TH STREET) INCLUDING AT LEAST A ONE BLOCK BUFFER DOWN STREAM.

E-1,

- 3. EXCAVATION PILES SHALL HAVE SAND BAGS AROUND PERIMETER OF PILE TO CONTAIN
- 4. SLURRY AND CUTTINGS IN ADDITION TO SEDIMENT SHALL BE COLLECTED AND DISPOSED OF IN A MANNER THAT DOES NOT
- 5. CATCH BASIN OFF PROJECT IN BETWEEN 8TH AND 9TH STREET ALONG 18TH AVENUE SHALL RECEIVE SILT SACK INLET PROTECTION.

FINAL DESIGN

名は Engineering

DRAWN BY: DESIGNED BY QUALITY CHECK JOB NO. FIELDB00

PROJECT

CCH DLW 6/6/14 L14-00

7 ONTROL Ö ENT

BIKE IMPROVEMENTS, IDAHO PEDESTRIAN, ADA & E LEWISTON,

AVENUE

8TH

 $\overline{\mathbf{S}}$ ŏ <u>N</u>0 OSI

L14-006 E-1.DW0

SHEET E-1

POLLUTION CONTROL

EROSION & SEDIMENT CONTROL NOTES:

<u>POLLUTION CONTROL MEASURES:</u> POLLUTION CONTROL MEASURES WILL BE ESTABLISHED AND SET IN PLACE PRIOR TO BEGINNING PROJECT CONSTRUCTION AND WILL BE MAINTAINED THROUGHOUT THE ENTIRE PROJECT CONSTRUCTION TIME PERIOD. THE PROPOSED POLLUTION CONTROL MEASURES ARE BASED ON IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY BEST MANAGEMENT PRACTICES (BMP'S) AND ARE LISTED AS FOLLOWS:

STAGING AREAS: THIS BMP INCLUDES MEASURES FOR COLLECTING RUNOFF FROM A STAGING AREA, MATERIALS STORAGE SITE, OR INDUSTRIAL ACTIVITY AREA OR FOR DIVERTING WATER FLOW AWAY FROM SUCH AREAS SO THAT POLLUTANTS DO NOT MIX WITH CLEAN STORMWATER RUNOFF. SEVERAL OPTIONS ARE AVAILABLE:

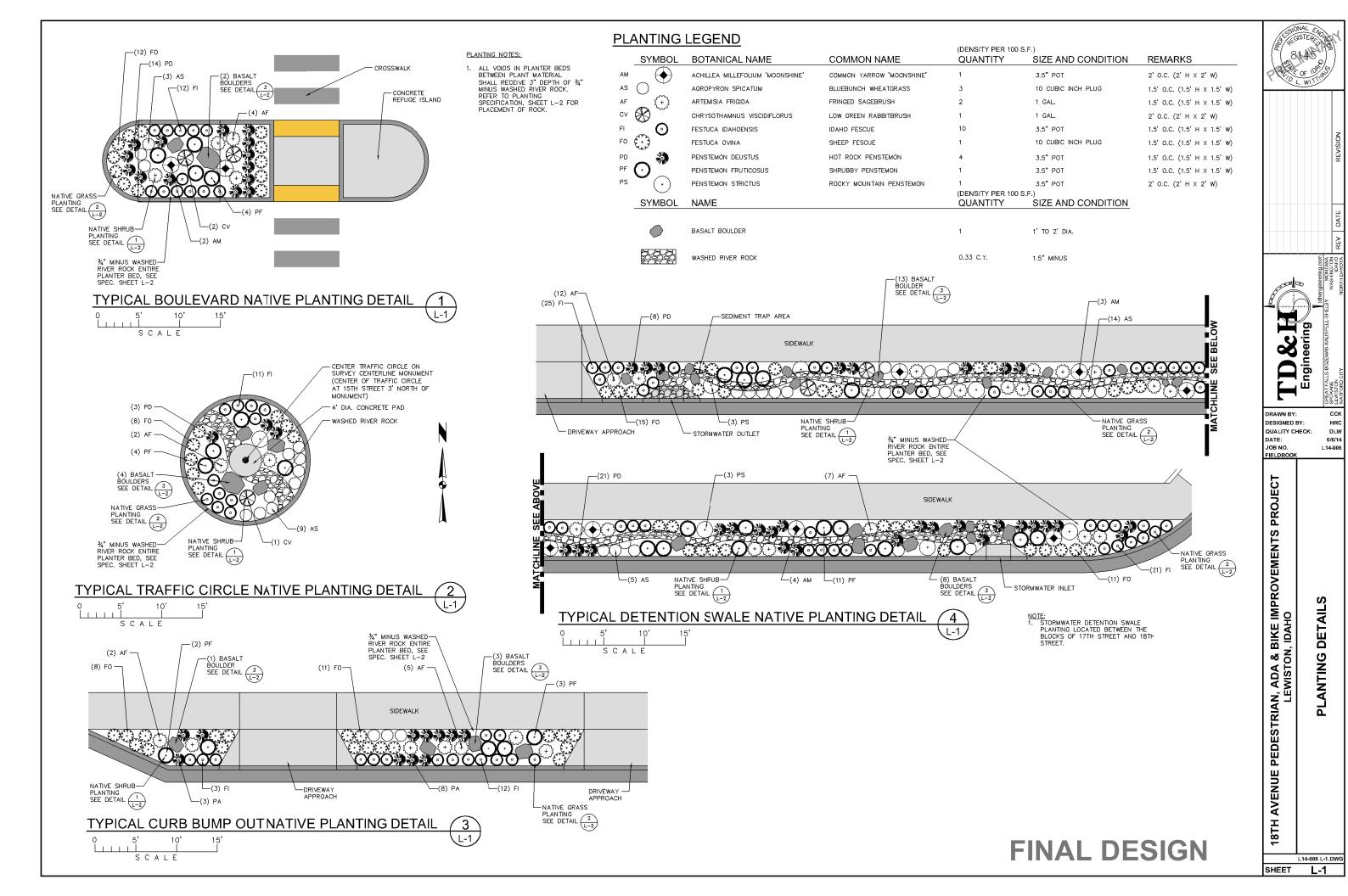
STORMWATER CONVEYANCES: THIS TERM INCLUDES MANY KINDS OF CHANNELS, GUTTERS, DRAINS, AND SEWERS.

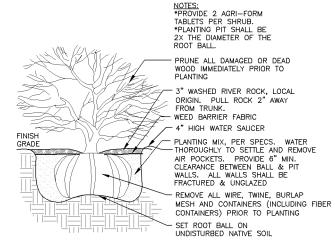
SPILL PREVENTION AND CONTROL: THIS DESCRIBES METHODS OF MINIMIZING EXPOSURE OF POLLUTANTS TO STORM WATER RUNOFF BY ENCLOSING ANY DRIPS, OVERFLOWS, LEAKS, AND OTHER LIQUID MATERIAL RELEASES OR BY ISOLATING POLLUTANT SPILLS FROM STORMWATER RUNOFF. THREE POSSIBLE OPTIONS ARE

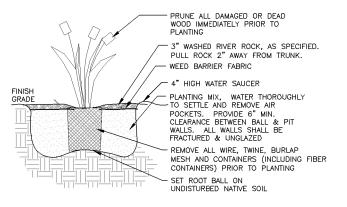
CONTAINMENT DIKING: TEMPORARY OR PERMANENT EARTH BERMS, CONCRETE BERMS, OR RETAINING WALLS DESIGNED TO HOLD SPILLS.

CURBING: LIKE CONTAINMENT DIKING, CURBING IS A BARRIER THAT SURROUNDS AN AREA OF CONCERN.

DRIP PANS: PANS USED TO CONTAIN VERY SMALL VOLUMES OF LEAKS, DRIPS, AND SPILLS.



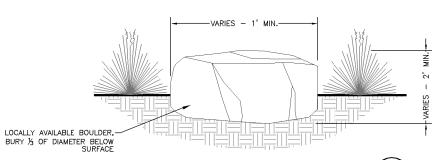




NATIVE GRASS PLANTING DETAIL

NOTES:
*PROVIDE 1 AGRI-FORM TABLETS
PER SHRUB.
*PLANTING PIT SHALL BE 2X THE

DIAMETER OF THE ROOT BALL.



BOULDER PLACEMENT DETAIL



NATIVE SHRUB PLANTING DETAIL

PLANTING SPECIFICATIONS

QUALITY ASSURANCE

- COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS GOVERNING LANDSCAPE MATERIALS AND WORK.
 WINER'S REPRESENTATIVE RESERVES RIGHT TO REVIEW AND REJECT MATERIALS AT GROWING SITE AND AS DELIVERED TO SITE.
 OBSERVATION AT GROWING SITE DOES NOT PRECLUDE RIGHT OF REJECTION AT JOB SITE. REMOVE REJECTED MATERIALS FROM SITE IMMEDIATELY.
 PERSONNEL: EMPLOY ONLY QUALIFIED PERSONNEL FAMILIAR WITH REQUIRED WORK.
 CONTRACTOR'S RESPONSIBILITIES: LANDSCAPE CONTRACTOR TO COORDINATE ACTIVITIES WITH ALL OTHER TRADES. LANDSCAPE CONTRACTOR TO ALSO SECURE UTILITY LOCATES PRIOR TO COMMENCING WORK INVOLVING EXCAVATION OR DIGGING.

- BALLED AND BURLAPPED (B&B) PLANTS: DIG AND PREPARE SHIPMENT IN A MANNER THAT WILL NOT DAMAGE ROOTS, BRANCHES, SHAPE, AND FUTURE DEVELOPMENT.
 CONTAINER GROWN PLANTS: DELIVER PLANTS IN CONTAINER SUFFICIENTLY RIGID TO HOLD BALL SHAPE AND PROTECT ROOT MASS.
 USE ALL MEANS NECESSARY TO PROTECT AND MAINTAIN MATERIALS BEFORE, DURING AND AFTER INSTALLATION AND TO PROTECT THE INSTALLED WORK AND MATERIALS OF ALL OTHER TRADES.
 DELIVER ALL PRODUCTS, AS SPECIFIED, TO SITE IN ORIGINAL, SEALED CONTAINERS BEARING MANUFACTURER'S GUARANTEED STATEMENT OF ANALYSIS.

- DELIVER ONLY PLANT MATERIALS THAT CAN BE PLANTED IN ONE DAY UNLESS ADEQUATE STORAGE AND WATERING FACILITIES ARE AVAILABLE ON JOB SITE.

 PROTECT ROOT BALLS BY HEELING IN WITH MULCH IF NOT PLANTED WITHIN 24 HOURS OF DELIVERY.

 PROTECT DURING DELIVERY TO PREVENT DAMAGE TO ROOTS AT ALL TIMES. COVER ALL MATERIALS DURING TRANSPORT.

 REMOVE REJECTED PLANT MATERIAL IMMEDIATELY FROM SITE.

 DO NOT LIFT, MOVE, ADJUST TO PLUMB, OR OTHERWISE MANIPULATE PLANTS BY TRUNK OR STEMS. AVOID DAMAGE OR STRESS BY PROPER HANDLING. PLANT MATERIAL DROPPED ON THE GROUND, RATHER THAN GENTLY PLACED INTO THE STORAGE AREA OR PLANTING BED, WILL BE REJECTED.

- PLANT MATERIAL SHALL BE STORED IN A SECURE LOCATION, AND SHALL BE WATERED REGULARLY PRIOR TO PLANTING TO PREVENT DRYING OUT OF THE ROOTBALL.
 SEED, FERTILIZER, HERBICIDE, HYDROMULCH, AND TACKIFIER SHALL BE KEPT IN DRY STORAGE

- CARE MUST BE EXERCISED TO MINIMIZE DISTURBANCE OR COMPACTION OF AREAS ADJACENT TO ANY PROJECT. TREES SHALL BE PROTECTED.

 2. IN ORDER TO PREVENT EXCESSIVE SOIL COMPACTION AND DESTRUCTION OF SOIL STRUCTURE, NO SITE WORK WILL BE PERFORMED IN CASES WHERE EQUIPMENT OR TRAFFIC MUST PASS OVER WET SOILS OR IF WET SOILS MUST BE HANDLED OR MANIPULATED IN ORDER FOR THE WORK TO PROGRESS, WET SOIL IS DEFINED AS ANY SOIL WITHIN 90 PERCENT OF FIELD CAPACITY (EXTRADAL).
- (SATURATION).
 3. DO NOT MOVE EQUIPMENT OVER EXISTING LANDSCAPE OR NEWLY PLACED STRUCTURES WITHOUT
- APPROVAL OF THE OWNER OR OWNER'S REPRESENTATIVE.

 4. PROVIDE BOARD ROADING AS REQUIRED TO PROTECT PAVING, PROTECT OTHER IMPROVEMENTS FROM DAMAGE, WITH PROTECTION BOARDS, RAMPS AND PROTECTIVE SHEETING.

- UTILITY LOCATES ARE REQUIRED PRIOR TO EXCAVATION OR ANY CONSTRUCTION ACTIVITIES. COORDINATE WORK WITH OWNER, INCLUDING IRRIGATION SPECIALIST, IN ORDER TO PREVENT DAMAGE TO UNDERGROUND SPRINKLER SYSTEM.

- 1. WARRANTY PLANT MATERIAL FOR ONE YEAR AFTER FINAL ACCEPTANCE. REPLACE DEAD OR DYING MATERIALS NOT IN VIGOROUS, THRIVING CONDITION AS SOON AS WEATHER PERMITS AND ON NOTIFICATION BY OWNER'S REPRESENTATIVE HAVE PARTIALLY DIED, THEREBY COMPROMISING SHAPE, SIZE OR SYMMETRY.

 2. REPLACE PLANTS WITH SAME KIND AND SIZE AS ORIGINALLY PLANTED, AT NO COST TO OWNER. PROVIDE 90—DAY WARRANTY ON REPLACEMENT PLANTS.

 3. WARRANTY EXCLUDES REPLACEMENT OF PLANTS AFTER FINAL ACCEPTANCE BECAUSE OF INJURY BY STORM, DROUGHT, DROWNING, HAIL, FREEZE, INSECTS, OR DISEASE. MATERIALS DAMAGED BY MACES OF COAD-BIRD TO FINAL ACCEPTANCE ARE RESPONSIBILITY OF CONTRACTOR.
- "ACTS OF GOD" PRIOR TO FINAL ACCEPTANCE ARE RESPONSIBILITY OF CONTRACTOR.

- PLANTING SOIL FOR PLANT STOCK PITS: EXISTING, NATIVE SURFACE TOPSOIL FORMED UNDER NATURAL CONDITIONS WITH THE DUFF LAYER RETAINED DURING EXCAVATION PROCESS AND STOCKPILED ON—STIE. VERIFY SUITABILITY OF NATIVE SURFACE TOPSOIL TO PRODUCE VABLE PLANTING SOIL. CLEAN SOIL OF ROOTS, PLANTS, SOD, STONES, CLAY LUMPS, AND OTHER EXTRANEOUS MATERIALS HARMFUL TO PLANT GROWTH.

 1. SUPPLEMENT WITH IMPORTED TOPSOIL PLANTING SOIL WHEN QUANTITIES ARE INSUFFICIENT.
- 1.2. MIX EXISTING, NATIVE SURFACE TOPSOIL WITH THE FOLLOWING SOIL AMENDMENTS IN THE FOLLOWING QUANTITIES TO PRODUCE PLANTING SOIL:

- PLANTING TABLETS: TIGHTLY COMPRESSED CHIP TYPE, LONG-LASTING, SLOW-RELEASE, COMMERCIAL-GRADE PLANTING FERTILIZER IN TABLET FORM. TABLETS SHALL BREAK DOWN WITH SOIL BACTERIA, CONVERTING NUTRIENTS INTO A FORM THAT CAN BE ABSORBED BY PLANT ROOTS.

 1.1. SIZE: 21-DANA TABLETS.
- 1.2. NUTRIENT COMPOSITION: 20 PERCENT NITROGEN, 10 PERCENT PHOSPHOROUS, AND 5 PERCENT POTASSIUM, BY WEIGHT PLUS MICRONUTRIENTS.

FERTILIZER TO BE SPREAD ON AREAS TO BE SEEDED SHALL BE COMMERCIALLY PREPARED PRODUCT PRE-APPROVED BY THE OWNER. FERTILIZER SHALL CONTAIN THE FOLLOWING PERCENTAGES AND SHALL BE APPLIED AT 200 LBS/ACREBY WEIGHT UNLESS OTHERWISE

55% PHOSPHORUS

WASHED RIVER ROCK: FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF SHRUBS.

LANDSCAPE FABRIC

HEAVY, PROFESSIONAL GRADE, SPUN-BONDED NYLON LANDSCAPE FABRIC WITH SIX-INCH ANCHORING PINS. WOVEN FABRIC IS UNACCEPTABLE.

- 2. GENERAL: PESTICIDE REGISTERED AND APPROVED BY EPA, ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION, AND OF TYPE RECOMMENDED BY MANUFACTURER FOR EACH SPECIFIC PROBLEM AND AS REQUIRED FOR PROJECT CONDITIONS AND APPLICATION. DO NOT USE RESTRICTED PESTICIDES UNLESS AUTHORIZED IN WRITING BY AUTHORITIES HAVING JURISDICTION.

 3. PRE-EMERGENT HERBICIDE (SELECTIVE AND NON-SELECTIVE): EFFECTIVE FOR CONTROLLING
- THE GERMINATION OR GROWTH OF WEEDS WITHIN PLANTED AREAS AT THE SOIL LEVEL DIRECTLY
- 4. POST-EMERGENT HERBICIDE (SELECTIVE AND NON-SELECTIVE): EFFECTIVE FOR CONTROLLING WEED GROWTH THAT HAS ALREADY GERMINATED.

MAINTENANCE

- 1. WATER WILL BE AVAILABLE ON SITE. PROVIDE NECESSARY HOSES AND OTHER WATERING EQUIPMENT REQUIRED TO COMPLETE WORK.
 2. MAINTAIN PLANTINGS BY WATERING, CULTIVATING, WEEDING, SPRAYING, CLEANING, AND REPLACING AS NECESSARY TO KEEP LANDSCAPE IN A VIGOROUS, HEALTHY CONDITION.
 3. COORDINATE WATERING SCHEDULES WITH IRRIGATION CONTRACTOR DURING INSTALLATION AND UNTIL FINAL ACCEPTANCE.
 4. WEEDING: REMOVE WEEDS AND FOREIGN GRASSES IN PLANTED AREAS AT LEAST ONCE PER WEEK. HERBICIDES MAY BE USED ONLY WHEN APPROVED BY THE OWNER'S REPRESENTATIVE.

- 1. GENERAL: FURNISH NURSERY-GROWN PLANTS TRUE TO GENUS, SPECIES, VARIETY, CULTIVAR, STEM FORM, SHEARING, AND OTHER FEATURES INDICATED IN PLANT SCHEDULE OR PLANT LEGEND SHOWN ON DRAWINGS AND COMPLYING WITH ANSI ZBG.1; AND WITH HEALTHY ROOT SYSTEMS DEVELOPED BY TRANSPLANTING OR ROOT PRUNING, PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK, DENSELY FOLLATED WHEN IN LEAF AND FREE OF DISEASE, PESTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT.

 1.1. COLLECTED STOCK: DO NOT USE PLANTS HARVESTED FROM THE WILD, FROM NATIVE STANDS, FROM AN ESTABLISHED LANDSCAPE PLANTING, OR NOT GROWN IN A NURSERY UNLESS OTHERWISE INDICATED.

 2. PROVIDE PLANTS OF SIZES, GRADES, AND BALL OR CONTAINER SIZES COMPLYING WITH
- ONLESS UTFICEMENT INDICATED.

 2. PROVIDE PLANTS OF SIZES, GRADES, AND BALL OR CONTAINER SIZES COMPLYING WITH ANSI Z60.1 FOR TYPES AND FORM OF PLANTS REQUIRED. PLANTS OF A LARGER SIZE MAY BE USED IF ACCEPTABLE TO OWNER'S REPRESENTATIVE, WITH A PROPORTIONATE INCREASE IN SIZE OF ROOTS OR BALLS.

 3. ROOT—BALL DEPTH: FURNISH SHRUBS WITH ROOT BALLS MEASURED FROM TOP OF ROOT BALL, WHICH SHALL BEGIN AT ROOT FLARE ACCORDING TO ANSI Z60.1. ROOT FLARE SHALL BE VISIBLE BEFORE PLANTING.

REFER TO IDAHO STANDARD SPECIFICATIONS SUBSECTIONS ---.- TOPSOIL SALVAGING AND PLACING, ---.- TOP SOILING AND ---.- TOPSOIL MATERIAL.

IN THE EVENT SUFFICIENT QUANTITIES OF NATIVE TOPSOIL CANNOT BE SALVAGED FROM THE SITE, THE CONTRACTOR SHALL PROVIDE IMPORTED TOPSOIL TO SUPPLEMENT THE PROJECT REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE TOPSOIL THAT MEETS OR EXCEEDS THE QUALITY OF THE NATIVE TOPSOIL MATERIAL AVAILABLE ON SITE. CONTRACTOR SHALL PROVIDE SOURCE AND ANALYSIS INFORMATION TO THE OWNER'S REPRESENTATIVE, FOR HIS APPROVAL, PRIOR TO DELIVERY. THE CONTRACTOR SHALL INCORPORATE INTO THE TOPSOIL, AMENDMENTS NECESSARY TO PROVIDE TOPSOIL FERTILITY AND QUALITY, EQUAL TO OR EXCEEDING THE CHARACTERISTICS OF THE NATIVE TOPSOIL.

PLANTING BED AREAS: PROVIDE A 12 INCH DEPTH OF TOPSOIL IN ALL PLANTING BED AREAS.
 COMPACT ALL AREAS TO RECEIVE SOD OR PLANTINGS TO 85 PERCENT PROCTOR DENSITY.

- COMPOST:

 1. WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, PH RANGE OF 6 TO 8.5; MOISTURE CONTENT 3D TO 60 PERCENT BY WEIGHT; 98 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOLUBLE SALT CONTENT OF MAXIMUM OF 10 DECISIEMENS/M; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS; AND AS FOLLOWS:

 1.1. ORGANIC MATTER CONTENT: 30-65 PERCENT OF DRY WEIGHT.

 1.1. FEEDSTOCK: AGRICULTURAL, FOOD, OR INDUSTRIAL RESIDUALS; BIOSOLIDS; YARD TRIMMINGS; OR SOURCE-SEPARATED OR COMPOSTABLE MIXED SOLID WASTE.

RED PREPARATION

- SCARIFY ALL SUB-GRADE OF BED AREAS TO SIX INCHES, ALL AREAS.
 CONTRACTOR SHALL SPREAD TOPSOIL EVENLY THROUGHOUT BED AFTER THOROUGHLY MIXING SOIL, AMENDMENTS AND FERTILIZER TOGETHER ON SITE.
 REMOVE ANY DEBRIS AND ROCKS LARGER THAN ONE INCH.

SHRUB AND GROUNDCOVER PLANTING

- PROVIDE ONE—FOOT DEEP TOP SOIL IN ALL SHRUB BEDS.
 PLACE PLANTS IN A POSITION ON BED AREAS BEFORE REMOVAL FROM CONTAINERS. OBTAIN
 APPROVAL FROM OWNER'S REPRESENTATIVE OF PLANT LAYOUT IN THE FIELD. OWNER'S
 REPRESENTATIVE RESERVES THE RIGHT TO SHIFT LOCATIONS OF PLANTS PRIOR TO PLANTING.
- REMOVE BURLAP FROM UPPER ONE—HALF OF ROOT BALL ON ALL B&B PLANTS.

 PLANT ALL PLANTS AS LOCATED, SETTING PLANTS WITH TOPS OF BALLS EVEN WITH THE TOPS
 OF BED GRADES, BACKFILL WITH NATIVE SOIL AND COMPACT SOIL CAREFULLY AROUND EACH
 PLANT BALL WATER THOROUGHLY TO ELIMINATE AIR POCKETS, CAREFULLY PRUNE PLANTS TO
 REMOVE DEAD OR BROKEN BRANCHES AND HAND—RAKE BED AREAS TO SMOOTH EVEN

- ROOT BALLS SHALL BE PROPERLY LOCATED IN RELATIONSHIP TO ADJACENT SOIL AS REQUIRED BY REFERENCED STANDARDS.
- BALLS SET TOO DEEP OR TOO SHALLOW SHALL BE CAREFULLY REMOVED AND REPLANTED AS REQUIRED BY THE OWNER'S REPRESENTATIVE.

AFTER PLANTING HAS BEEN COMPLETED AND APPROVED BY THE OWNER'S REPRESENTATIVE, INSTALL LANDSCAPE FABRIC ACROSS PLANTING BEDS. SHEETS OF FABRIC SHOULD HAVE A MINIMUM SIX-INCH OVERLAP. AT THE BED MARGINS, FABRIC SHOULD BE INSTALLED UNDER THE BOTTOM OF CONCRETE CURBING: FABRIC LAPPING OUTSIDE THE CONCRETE CURBING SHOULD BE TRIMMED TO BELOW GRADE AND BURIED WHEN THE CURB IS BACKFILLED. FABRIC SHOULD BE WELL ANCHORED WITH 6 BINCH STAKES POUNDED FLUSH WITH THE GRADE. PLANT OPENINGS MUST BE LARGE ENOUGH TO ALLOW FOR FUTURE GROWTH.

AFTER LANDSCAPE FABRIC HAS BEEN INSTALLED AND ACCEPTED BY THE OWNER'S REPRESENTATIVE, TOP DRESS BED AREAS WITH 1/2" MINUS WASHED RIVER ROCK, AS INDICATED ON DRAWNINGS, A MINIMUM OF THREE INCHES DEEP, FABRIC MUST NOT BE EXPOSED OR PROTRUDE ABOVE THE WASHED RIVER ROCK OR CURB. ROCK SHOULD BE CLEAN AND SHOULD BE EFFER OF DEEPHS AND SOU

- KEEP PREMISES NEAT AND ORDERLY INCLUDING ORGANIZATION OF STORAGE AREAS. REMOVE TRASH AND DEBRIS FROM EXCAVATED PLANTING AREAS, PREPARING BEDS, OR PLANTING PLANTS FROM SITE DAILY AS WORK PROGRESSES. KEEP PAVED AREAS CLEAN BY SWEEPING
- 2. REPAIR ALL DAMAGE CAUSED BY LANDSCAPE OPERATIONS.

FINAL DESIGN



(S) Engi DRAWN BY:

DESIGNED BY QUALITY CHECK

IOB NO. IELDB00

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C PEDESTRIAN, AD. LEWIS

L14-006 L-2.DW

SHEET

AVENUE

8TH