# **EROSION CONTROL & MAINTENANCE PLAN NOTES:**

- A. RETAIN FLOATABLE WIND BLOWN MATERIALS ON SITE BY STORING ALL TRASH AND BUILDING MATERIAL WASTE IN ENCLOSURES UNTIL PROPER DISPOSAL AT OFF-SITE FACILITIES. CHECK ADJACENT AREAS DAILY AND PICK UP CONSTRUCTION WASTE MATERIALS AND DEBRIS THAT HAVE BLOWN OR WASHED OFF SITE.
- B. PERMANENTLY STABILIZE ALL SURFACE AREA WITHIN AND ADJACENT TO THIS SITE THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION FOR THE PROPOSED FACILITY. STABILIZATION IS OBTAINED WHEN THE DISTURBED SURFACE IS COVERED WITH STRUCTURES, PAVING AND OR PERENNIAL VEGETATION HAVING A UNIFORM COVERAGE DENSITY OF AT LEAST 70%. STABILIZATION OF ALL DISTURBED AREA IS REQUIRED BEFORE TERMINATING MAINTENANCE AND REMOVAL OF EROSION CONTROL MEASURES.
- C. CONTRACTORS SHALL INSPECT POLLUTION CONTROL MEASURES AT LEAST ONCE EVERY 14 DAYS AND WITHIN 24 HOURS AFTER A STORM EVENT OF 1/2 INCH OR GREATER. DAMAGED MEASURES THAT PROVE TO BE INEFFECTIVE SHALL BE REPLACED WITH MORE EFFECTIVE MEASURES OR ADDITIONAL MEASURES WITHIN SEVEN DAYS. REPEATED FAILURE OF A CONTROL MEASURE REQUIRES INSTALLATION OF A MORE SUITABLE DEVICE TO PREVENT DISCHARGE OF POLLUTANTS FROM THE CONSTRUCTION SITE.
- D. INSTALLATION OF ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY THE CITY OR STATE. CONTRACTOR TO VERIFY REQUIREMENTS PRIOR TO BEGINNING ANY WORK ON PROJECT.
- E. CARE SHALL BE TAKEN TO MINIMIZE THE ENCROACHMENT OF SEDIMENT INTO ALL STORM DRAIN APPURTENANCES, PUBLIC STREETS. AND ONTO PRIVATE PROPERTY UNTIL IMPERVIOUS MATERIAL (ROAD/PARKING AREA SURFACE) IS APPLIED OR UNTIL PROPOSED LANDSCAPE HAS BEEN ESTABLISHED.
- F. REFER TO 7/C3 FOR SILT FENCE CONSTRUCTION.

## **GENERAL NOTES:**

- A. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS BY DETAILED INSPECTION PRIOR TO SUBMITTING BID AND BEGINNING CONSTRUCTION. NOTIFY ARCHITECT IF EXISTING CONDITIONS DEVIATE SUBSTANTIALLY FROM THOSE INDICATED HEREIN.
- B. REFER TO STRUCTURAL PLANS FOR DEVELOPMENT OF SIDEWALKS ADJACENT TO FOUNDATIONS.
- C. COORDINATE WORK WITH OTHER SITE RELATED DEVELOPMENT DRAWINGS.
- D. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF EXISTING UTILITIES AND ANY MODIFICATIONS THEREOF. NOT ALL UTILITIES ARE SHOWN HEREIN AND SUBJECT TO INACCURACIES.

**SCALE:** 1" = 20'

E. ALL WORK AND MATERIALS SHALL CONFORM TO THE CITY OF TULSA'S STANDARDS & GUIDELINES.

### STAGES OF CONSTRUCTION:

- A. CONTRACTOR TO PERFORM DETAILED SITE INSPECTION TO LOCATE ALL EXISTING UTILITIES AND VERIFY ANY POSSIBLE CONFLICTS WITH PROPOSED IMPROVEMENTS PRIOR TO BEGINNING ANY CONSTRUCTION. CONTACT OWNER WITH ANY CONFLICTS. MONTH 1
- B. INSTALLATION OF EROSION CONTROL FENCE. MONTH 1 DEMOLITION OF EXISTING SITE IMPROVEMENTS. MONTH 1
- ROUGH GRADING. MONTH 1 & MONTH 2
- E. CONSTRUCTION OF NEW SITE IMPROVEMENTS. MONTH 2
- FINAL GRADING, MONTH 3
- G. PLACEMENT OF FINAL LANDSCAPING ITEMS AND SOD. MONTH 3
- H. REMOVAL OF EROSION CONTROL FENCE, MONTH 3

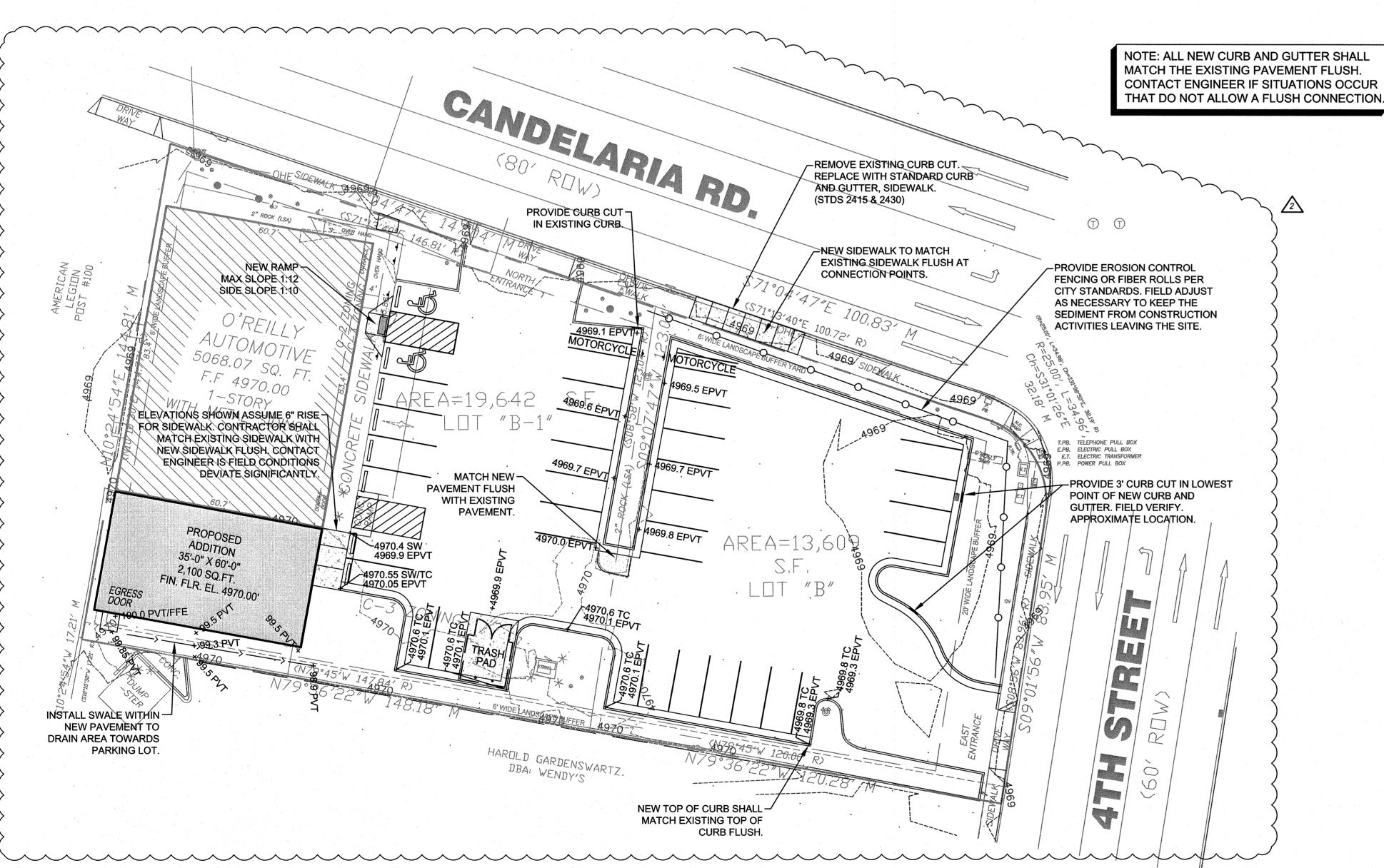
#### **PROJECT SUMMARY:**

PROJECT CONSISTS OF A 2,100 SF BUILDING ADDITION. THE PROPOSED ADDITION WILL BE BUILT ONTO AN EXISTING BUILDING, WITHIN THE EXISTING PARKING LOT.

THE EXISTING PARKING LOT SHALL BE SAW CUT WHERE SHOWN ON SHEET C2 TO ALLOW FOR NEW CURB AND GUTTER TO MATCH FLUSH TO EXISTING PAVEMENT. THE PROPOSED ADDITION AND REMOVAL OF PAVEMENT WILL DECREASE THE AMOUNT OF IMPERVIOUS AREA COMPARED TO THE

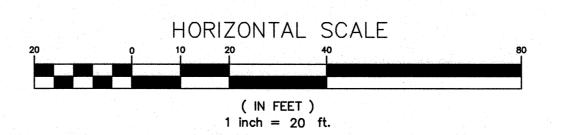
ALL STORMWATER RUNOFF FROM DEVELOPED SITE WILL BE DIRECTED TO CANDELARIA ROAD AND 4TH STREET. THE SAME FINAL DISCHARGE LOCATION AS THE PRE-DEVELOPED SITE.

TRAFFIC FLOW WILL NOT BE IMPEDED BY THE PROPOSED BUILDING ADDITION. TRAFFIC CIRCULATION WILL BE IMPROVED BY REMOVING THE EXISTING DEAD END FROM BEHIND THE BUILDING.



SITE GRADING AND STORMWATER





ENTIRE SHEET HAS BEEN REVISED PER THE REVISED SITE PLAN



# **CAUTION:**

INFORMATION ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

#### **TRAFFIC GENERATION SUMMARY:**

ACCORDING TO THE 7TH EDITION ITE TRIP GENERATION REPORT, AN AUTOMOBILE PARTS STORE IS EXPECTED TO GENERATE 186 DAILY TRIPS BASED ON THE TOTAL SQUARE FEET OF THE STORE. THE AM HOURLY PEAK IS PREDICTED TO BE 7 TRIPS WITH 4 ENTERING THE SITE AND 3 LEAVING THE SITE. THE PM HOURLY PEAK IS PREDICTED TO BE 17 TRIPS WITH 8 TRIPS ENTERING THE SITE AND 9 TRIPS LEAVING THE SITE.

# STORMWATER RUNOFF SUMMARY:

**TOTAL PROPERTY AREA= 0.75 ACRES** 

TOTAL DISTURBED AREA = 0.5 ACRES < 1.0 ACRES THEREFORE NO NOI.

1. ON-SITE AREAS & CURVE NUMBERS: DESIGN PROJECT AREA = 0.75 ACRES PRE-DEVELOPMENT **EXISTING BLDG & PARKING LOT** PERVIOUS AREA = 0.08 ACRES C=0.85 IMPERVIOUS AREA = 0.67 ACRES C=0.98

COMPOSITE COEFFICIENT, C = 0.97 POST-DEVELOPMENT BUILDING ADDITION, BLDG, PARKING PERVIOUS AREA = 0.18 ACRES C=0.85 IMPERVIOUS AREA = 0.57 ACRES C=0.98 COMPOSITE COEFFICIENT, C = 0.94

2. TIME OF CONCENTRATION: PRE-DEVELOPMENT ASPHALT PARKING LOT  $T_c = 5.0 MINUTES$ 

POST-DEVELOPMENT **ASPHALT PARKING LOT**  $T_c = 5.0 MINUTES$ 

3. PRECIPITATION DATA: PER NOAA NATIONAL WEATHER SERVICE PRECIPITATION INTENSITY (in/hr):

1.87 1.04 0.64 25-YR EVENT 3.32 2.23 1.38 25-YR EVENT 3.78 2.54 1.57 6.00 100-YR EVENT 4.26 2.87 1.78 6.78

4. EXISTING SITE RUNOFF:

FLOW, cfs Q pre= 2 YR 25 YR 50 YR 100 YR 4.92 5. DEVELOPED SITE RUNOFF:  $\frac{\text{FLOW, cfs}}{\text{Q post=}} \quad \frac{2 \text{ YR}}{1.73} \quad \frac{25 \text{ YR}}{3.71} \quad \frac{50 \text{ YR}}{4.23} \quad \frac{100 \text{ YR}}{4.77}$ 

CALCULATIONS WERE MADE USING HYDRAFLOW HYDROGRAPHS 2007 RATIONAL METHOD COMPUTER MODELING SOFTWARE

#### **SYMBOLS LEGEND** REFER TO SURVEY (SV1) FOR EXISTING CONDITION SYMBOLS LEGEND AND SITE CONTROL. NEW SPOT ELEVATIONS **EXISTING GRADE LINES** \_\_\_\_100 \_\_\_ ABBREVIATION NONE PROPOSED NEW GRADE LINES SIDEWALK TOP OF CURB NEW BUILDING CONSTRUCTION TOP OF PAVEMENT NEW GRADE ETC EXISTING TOP OF CURB EGD SILT FENCE EXISTING GRADE ----x -----x -----**EPVT** EXISTING PAVEMENT EXISTING SIDEWALK ESW FLOW LINE

2\ 9-20-10: DOWNSPOUT SWALE √ 5-26-11: SITE REV √4 7-11-11: SITE REV



**REVISIONS** 

 $1 \times 8-5-10$ : ADDED NOTES

ESPONSIBILITY FOR ALL OTHER PLANS,

PROJ# 10126-1

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DRAWN: WAS CHECKED: NSB 04/23/10 JOB NO.: AB2-2700

